

Table of Contents

<u>THE AFGHANISTAN RARE EARTH MINING CORRUPTION.....</u>	<u>1</u>
<u>What Went Wrong With The Electric Car Industry?.....</u>	<u>4</u>
<u>KEY FEDERAL INVESTIGATION TARGETS FOR INDICTMENT, ARREST,</u>	
<u>SURVEILLANCE AND FORCED PUNITIVE BANKRUPTCY.....</u>	<u>13</u>
<u>THE LITHIUM BATTERY POLITICAL PROFITEERING LIES.....</u>	<u>14</u>
<u>What Went Wrong With The Electric Car Industry?.....</u>	<u>18</u>
<u>Elon Musk's Electric Car Batteries Made By Forced Labor Overseas.....</u>	<u>20</u>
<u>KEY FEDERAL INVESTIGATION TARGETS FOR INDICTMENT, ARREST,</u>	
<u>SURVEILLANCE AND FORCED PUNITIVE BANKRUPTCY.....</u>	<u>29</u>
<u>THE LITHIUM BATTERY POLITICAL PROFITEERING LIES.....</u>	<u>31</u>
<u>What Went Wrong With The Electric Car Industry?.....</u>	<u>35</u>
<u>Elon Musk's Electric Car Batteries Made By Forced Labor Overseas.....</u>	<u>46</u>
<u>Amazon Treasure Truck Bursts Into Flames lithium ion batteries in cargo suspected of self ignition...48</u>	
<u>And Yet Another Lithium Ion Device exploded 'like a rocket,' left severe leg burns.....48</u>	
<u>Man said vape pen exploded 'like a rocket,' left him with severe leg burns.....50</u>	<u>50</u>
<u>And Yet Another Lithium Ion Device exploded 'like a rocket,' left severe leg burns.....50</u>	
<u>Man said vape pen exploded 'like a rocket,' left him with severe leg burns.....52</u>	<u>52</u>
<u>And Yet Another Lithium Ion Device exploded 'like a rocket,' left severe leg burns.....52</u>	
<u>Man said vape pen exploded 'like a rocket,' left him with severe leg burns.....54</u>	<u>54</u>
<u>And Yet Another Lithium Ion Device exploded 'like a rocket,' left severe leg burns.....54</u>	
<u>Man said vape pen exploded 'like a rocket,' left him with severe leg burns.....56</u>	<u>56</u>
<u>Another Apple Lithium Ion Phone Battery Explodes.....57</u>	<u>57</u>
.....	<u>58</u>
<u>Apple store in Zurich evacuated as phone battery overheats.....59</u>	<u>59</u>
<u>Another Apple Lithium Ion Phone Battery Explodes.....60</u>	<u>60</u>
.....	<u>61</u>
<u>Apple store in Zurich evacuated as phone battery overheats.....62</u>	<u>62</u>
<u>Another lithium ion Vape pen confirmed to have killed St. Petersburg man, burning 80 percent of his body.....64</u>	<u>64</u>
<u>Another Apple Lithium Ion Phone Battery Explodes.....65</u>	<u>65</u>
.....	<u>66</u>

Table of Contents

<u>Apple store in Zurich evacuated as phone battery overheats.....</u>	<u>67</u>
<u>Another Apple Lithium Ion Phone Battery Explodes.....</u>	<u>68</u>
<u>.....</u>	<u>69</u>
<u>Apple store in Zurich evacuated as phone battery overheats.....</u>	<u>70</u>
<u>Appleâ iPhone Lithium Ion Batteries Are Starting To Explode!.....</u>	<u>71</u>
<u>Apple 'looking into' iPhone 8 batteries swelling.....</u>	<u>72</u>
<u>TAGS.....</u>	<u>73</u>
<u>.....</u>	<u>73</u>
<u>Apple covering-up 'exploding' Lithium Ion iPhone 7 Plus after video of smoking handset goes viral....</u>	<u>73</u>
<u>Smoke reportedly began pouring out of the phone on Wednesday morning.....</u>	<u>79</u>
<u>Apple recalls MacBook Pro batteries over deadly lithium ion 'fire safety risk'.....</u>	<u>80</u>
<u>Apple recalls MacBook Pro batteries over deadly lithium ion 'fire safety risk'.....</u>	<u>81</u>
<u>Appleâ iPhone Lithium Ion Batteries Are Exploding.....</u>	<u>82</u>
<u>Apple 'looking into' iPhone 8 batteries swelling.....</u>	<u>83</u>
<u>TAGS.....</u>	<u>84</u>
<u>Apple recalls MacBook Pro batteries over deadly lithium ion 'fire safety risk'.....</u>	<u>85</u>
<u>Apple recalls MacBook Pro batteries over deadly lithium ion 'fire safety risk'.....</u>	<u>86</u>
<u>Blame Lithium Batteries for Samsung Note 7 Fires.....</u>	<u>90</u>
<u>Boosted tells people to stop riding its electric skateboards after lithium ion battery explosions.....</u>	<u>90</u>
<u>Why phone batteries like the Note 7's explode:.....</u>	<u>91</u>
<u>Boosted tells people to stop riding its electric skateboards after lithium ion battery explosions.....</u>	<u>91</u>
<u>Why phone batteries like the Note 7's explode:.....</u>	<u>92</u>
<u>Congress Probes Funding of China-Backed Lithium Battery Company.....</u>	<u>94</u>
<u>Teslaâ new store in Sweden caught on fire OF COURSE.....</u>	<u>97</u>
<u>DirecTV races to decommission broken Boeing satellite before it's lithium ion batteries explode.....</u>	<u>97</u>
<u>Boeing satellite has the usual irreversible damage to it's lithium ion batteries, creating explosion risk.....</u>	<u>97</u>
<u>Not enough time to deplete fuel.....</u>	<u>98</u>
<u>New orbit 300km above other satellites.....</u>	<u>99</u>
<u>DirecTV races to decommission broken Boeing satellite before it's lithium ion batteries explode.....</u>	<u>99</u>
<u>Boeing satellite has the usual irreversible damage to it's lithium ion batteries, creating explosion risk.....</u>	<u>99</u>

Table of Contents

<u>DirecTV races to decommission broken Boeing satellite before it's lithium ion batteries explode</u>	
<u>Not enough time to deplete fuel</u>	100
<u>New orbit 300km above other satellites</u>	101
<u>DirecTV races to decommission broken Boeing satellite before it's lithium ion batteries explode</u>.....	101
<u>Boeing satellite has the usual irreversible damage to it's lithium ion batteries, creating explosion risk</u>	101
<u>Not enough time to deplete fuel</u>	102
<u>New orbit 300km above other satellites</u>	107
<u>Flight attendants say air inside planes can be toxic from leaking chemicals and burning lithium ion batteries</u>.....	107
<u>Related Headlines</u>	113
<u>Flight from NYC diverted due to lithium ion laptop fire</u>.....	115
<u>Fremont Police Tesla Near-Dead Battery Forces Officer Off Pursuit</u>.....	116
<u>Fremont Police Tesla Near-Dead Battery Forces Officer Off Pursuit</u>.....	117
<u>Girl, 14, killed in her sleep by exploding lithium ion phone after going to bed listening to music while device was charging</u>.....	117
<u>'TRAGIC ACCIDENT'</u>	120
<u>Hillaryâ State Department Urged U.S. Investors To Fund Russian Research For Military Uses</u>.....	120
<u>Wow! The Wall Street Journal in 2016: The Clinton Foundation, State and Kremlin Connections. Why did Hillaryâ State Department urge U.S. investors to fund Russian research for military uses?</u>	122
<u>Thirty injured in explosion at Jewish celebration in London as mobile phone lithium ion battery sparks fireball</u>.....	132
<u>LITHIUM-ION BATTERY EXPLOSION LAWSUITS</u>.....	132
<u>What is a Lithium-Ion Battery?</u>	132
<u>Whatâ the Problem with Lithium-Ion Batteries?</u>	133
<u>Manufacturing Short Cuts Result in Consumer Injuries</u>	133
<u>Some Products Associated with Exploding Lithium-Ion Batteries</u>	134
<u>Types of Injuries Associated with Lithium-Ion Batteries</u>	134
<u>Lithium-Ion Battery Lawsuits</u>	136
<u>Lithium Ion Battery Toxic Air Events Happening On More Flights Than FAA Reports</u>.....	140
<u>Lithium Miners News For The Month Of October 2020</u>.....	140
<u>Lithium spot and contract price news</u>	141
<u>Lithium demand versus supply outlook</u>	141
<u>Lithium market and battery news</u>	144
<u>Lithium miner news</u>	147
<u>Conclusion</u>	148
<u>Recommended for you:</u>	153

Table of Contents

<u>Lithium Mining companies' links with U.S. And Oz politicians 'susceptible to corruption' â€“ report.....</u>	154
<u>Adani needs Carmichael mine to stave off income crash, report says.....</u>	155
<u>BHP agrees to rethink its links to Minerals Council of Australia.....</u>	157
<u>Lithium ion E-cigarette ignites fire on flight from Las Vegas to Chicago.....</u>	158
<u>Lithium ion E-cigarette ignites fire on flight from Las Vegas to Chicago.....</u>	159
<u>Lithium ion E-cigarette ignites fire on flight from Las Vegas to Chicago.....</u>	160
<u>Lithium ion Vape pens explode in teenâ€“ snouths; injuries resemble results of â€“ high-speedâ€“ crash.....</u>	162
<u>Related Articles.....</u>	163
<u>Lithium ion batteries in Robot started a fire which costs Ocado \$137M.....</u>	163
<u>Special feature.....</u>	165
<u>Long delays at Orlando airport after lithium ion Tesla-Like battery explodes in bag, causing panic and evacuation.....</u>	167
<u>MH370 Was â€“ Manipulatedâ€“Off Course by hackers or bad guy, Report Says.....</u>	168
<u>No Bodies.....</u>	170
<u>MORE APPLE LITHIUM ION BATTERIES ARE BLOWING UP!.....</u>	171
<u>Tampa man says Apple AirPods earphone blew up.....</u>	184
<u>Merrill Lynch Caught Criminally Manipulating Precious And Rare Earth Metals Market "Thousands Of Times" Over 6 Years.....</u>	186
<u>Merrill Lynch Caught Criminally Manipulating Precious And Rare Earth Metals Market "Thousands Of Times" Over 6 Years.....</u>	188
<u>Merrill Lynch Caught Criminally Manipulating Precious And Rare Earth Metals Market "Thousands Of Times" Over 6 Years.....</u>	193
<u>Bottom Line: Not So Rare.....</u>	195
<u>The Catch.....</u>	195
<u>Reduce, Reuse, Recycle.....</u>	197
<u>Post navigation.....</u>	197
<u>66 thoughts on â€“ Rare Earth Metals Caught in Trade Warâ€“.....</u>	222
<u>Exclusive: Pentagon races to track U.S. rare earths output amid China trade dispute and Silicon Valley bribes.....</u>	222
<u>CHINA DOMINATES.....</u>	224
<u>Child Labor and the Global Competition for Rare Earth</u>	224
<u>iPhone mineral miners of Africa use bare hands Daily Mail ...</u>	224

Table of Contents

Exclusive: Pentagon races to track U.S. rare earths output amid China trade dispute and Silicon Valley bribes

<u>LME Steps Up Efforts to Ban Cobalt Suppliers Using Child ...</u>	224
<u>Mining Child and Slave Labour - Historical and Current ...</u>	224
<u>Mines Linked to Child Labor Are Thriving in Rush for Car ...</u>	225
<u>Cobalt mining for lithium ion batteries has ... - Washington Post</u>	225
<u>Child miners aged four at Congo cobalt mine Daily Mail Online</u>	225
<u>Digging for rare earths: The mines where iPhones are born</u>	225
<u>Dirty, dangerous and destructive - the elements of a ...</u>	225
<u>Carmakers' electric dreams depend on supplies of rare ...</u>	225
<u>Beyond "Conflict Minerals": The Congo's Resource Curse Lives ...</u>	225
<u>Your Hybrid Car Is Hogging All the Rare Earth Metals ...</u>	226
<u>Child labour behind smart phone and electric car batteries ...</u>	226
<u>Clean Energy Boom Could Fuel One of the World's Dirtiest ...</u>	226
<u>Electric Vehicles, Batteries, Cobalt, and Rare Earth Metals ...</u>	226
<u>Plight of African child slaves forced into mines - for our ...</u>	226
<u>America's Rare Earth Ultimatum: A National Policy of Vertical ...</u>	226
<u>Trade War With China Exposes U.S. Mineral Import Problem</u>	227
<u>China trade war with US heats up with Huawei summary ...</u>	227
<u>In U.S.-China Trade War, Rare Earths Are the Nuclear Option ...</u>	227
<u>Why We Need Cobalt & Rare Earth Minerals To Power Electric Cars</u>	227
<u>Forget Lithium -- It's Rare Earth Minerals That Are in Short ...</u>	227
<u>China's Rare Earth Metal: Not As Potent a Trade War Weapon As ...</u>	227
<u>Can China Hold The U.S. Hostage With Rare Earth Metals ...</u>	234
<u>POPULAR VIDEOS</u>	234
<u>READ MORE</u>	241

Super-high levels of toxic aluminum found in the brains of autistic patients: aluminum is present in many vaccines

TESLA BATTERIES ARE STARTING TO DIE GLOBALLY AS FAILED BATTERY TECH RUNS OUT OF JUICE

Felon arrested after pursuit when stolen Tesla batteries die

<u>THE DEADLY LITHIUM BATTERY POLITICAL PROFITEERING LIES OF THE DEPARTMENT OF ENERGY</u>	251
<u>WHY A WEBSITE COMPANY DESPERATELY WANTS TO PUSH ELECTRIC CARS! GOOGLE'S AWFUL SECRET</u>	252
<u>Google Seeks Multiple Auto Partners for Self-Driving Car Unit That Will Seek Taxpayer Cash</u>	252
<u>Google Hires Former Obama Adviser Atkinson to Lead Global Policy In order To Control Politics On Electric Cars And Energy Mines</u>	253
<u>The Taliban are sitting on \$1 trillion worth of minerals the world ...</u>	253
<u>What's going to happen to Afghanistan's untapped mineral wealth worth ...</u>	253
<u>Afghanistan collapsed because corruption had hollowed out the state ...</u>	253
<u>As US exits Afghanistan, China eyes \$1 trillion in minerals</u>	253
<u>Chinese investment in Afghanistan's lithium sector: A ... - Brookings</u>	253
<u>Afghanistan has chromite, lithium. The Taliban wants to cash in - Los ...</u>	254
<u>Taliban Arrest Chinese Nationals for Allegedly Smuggling Afghan Lithium</u>	254
<u>China Isn't Plundering Afghanistan's Mineral Wealth - Foreign Policy</u>	254
<u>Afghanistan: China Wants the Taliban's Critical Mineral Mines</u>	254

Table of Contents

<u>Felon arrested after pursuit when stolen Tesla batteries die</u>	
<u>Trove of EV metals in Afghanistan may boost Taliban and Chinese ...</u>	254
<u>The Future Of Corrupt Silicon Valley Cronyism May Lie In The Mountains Of Afghanistan</u>	258
<u>Over 1000 Reasonâ sWhy Lithium-ion Is a DEADLY, CRIMINAL, VERY BAD THING! - (LINK)</u>	266
<u>Tesla Drivers More Likely To Get In Accidents, With Their Exploding Cars, Than Mainstream Drivers?</u>	271
<u>Lithium Battery Explosion Burns Hong Kong Home To The Ground:</u>	271
<u>Boeing 787 Dreamliner woes put spotlight on lithium ion battery risks</u>	274
<u>â Whistleblower: Dreamliner LITHIUM ION Batteries Could Explode</u>	276
<u>Tesla Model S charging system may have started garage fire â California fire dept</u>	278
<u>Hard to Take the German Absolution of Tesla Fires Seriously</u>	280
<u>Samsung exploding Lithium ion Galaxy COVER-UP Expose proves Danger of Lithium ion!</u>	
<u>Lithium ion and Cover-Ups seem to go hand-in-hand</u>	289
<u>TESLA PATENTS, FILED WITH FEDS, SHOW MUSK KNEW CARS WERE UNSAFE!</u>	308
<u>LITHIUM ION BATTERIES BLOW UP THE VEHICLES THEY POWER</u>	314
<u>What Went Wrong With The Electric Car Industry?</u>	318
<u>Elon Musk's Electric Car Batteries Made By Forced Labor Overseas</u>	320
<u>Blame Lithium Batteries for Samsung Note 7 And Tesla Motors Fires</u>	322
<u>BIDEN AND OBAMA PROMISED THEIR BIG TECH POLITICAL FINANCIERS EXCLUSIVE ACCESS TO THE ELECTRIC VEHICLE MARKET AND LITHIUM ION BATTERY MINES</u>	322
<u>...IT ALL BLEW UP IN THEIR FACES</u>	323
<u>The EV myth</u>	324
<u>The Norway model</u>	325
<u>Time for a rethink</u>	330
<u>Poisonous dust from 9/11 attack has given almost 10,000 New Yorkers cancer</u>	332
<u>Get the best Sun stories with our daily Sun10 newsletter</u>	340
<u>TRYING TO MAKE DEADLY LITHIUM ION BATTERIES LESS DEADLY</u>	340
<u>The story of a pivot</u>	341
<u>Trial by fire</u>	342
<u>The zero-lithium state</u>	342
<u>Market niche to market king</u>	343
<u>Beyond the hype</u>	345
<u>Madrid tube train blast injures several passengers after lithium ion batteries explode sparking panic on underground</u>	348
<u>MOST READ IN WORLD NEWS</u>	350
<u>Tesla says their autopilot and lithium ion batteries killed driver</u>	352
<u>Tesla says their autopilot and lithium ion batteries killed driver</u>	354

Table of Contents

<u>Tesla says their autopilot and lithium ion batteries killed driver.....</u>	<u>356</u>
<u>Tesla says their autopilot and lithium ion batteries killed driver.....</u>	<u>359</u>
<u>The U.S. Spent a Half Billion on Mining in Afghanistan With â€œ LimitedProgressâ€.....</u>	<u>360</u>
<u>G.I. Dough.....</u>	<u>360</u>
<u>Latest Stories in this Project.....</u>	<u>361</u>
<u>We Blew \$17 Billion in Afghanistan. How Would You Have Spent It?.....</u>	<u>363</u>
<u>Megan McCloskey.....</u>	<u>367</u>
<u>US Needs 10X More Rare Earth Metals To Hit Electric Vehicle Goals And China Controls It All - So We Need To Move To Hydrogen Cars.....</u>	<u>372</u>
<u>Uranium One noose is tightening.....</u>	<u>373</u>
<u>Virgin Atlantic.London flight makes emergency landing after lithium ion phone charger fire.....</u>	<u>373</u>
<u>The Afghan Lithium & Mining Stock Scam.....</u>	<u>377</u>
<u>SUBMIT TIPS, NEWS & LINKS:.....</u>	<u>378</u>
<u>HOT BREAKING NEWS STORIES:FOR ARCHIVE OF OLDER NEWS STORIES. CLICK BELOW:.....</u>	<u>379</u>
<u>SUBMIT TIPS, NEWS & LINKS:</u>	

What Went Wrong With The Electric Car Industry?

Only men seem to start car companies. Most psychologists say that this is because men see cars as dick insecurity emblems.

Elon Musk is known to be a wildly insecure narcissist who feels that he must get every woman, that he can find, pregnant in order to prove his manhood to his abusive father, who got his sister pregnant.

Musk embodies the ultimate expression of “car-as-dick” thinking because Musk was not only molded by his purse-swinging, kept-woman, mother, abusive father and crooked brother but also by the Silicon Valley frat boy rape-culture.

Silicon Valley is, of course, the Eden of modern misogyny and tech-bro douche-baggery.

Musk dragged all of the biggest assholes from Silicon Valley, The DNC and Goldman Sachs into his Tech Cartel. Together they created a temporary monopoly in the electric car industry by exchanging stock market payola with Senators and White House staff who, in exchange, locked off the electric car and space industries just for Musk.

But that scheme was not sustainable. It was amazingly crooked and lucrative but, it could not last. It was Big Tech’s Roman Empire and it was doomed to fail spectacularly.

Musk counted on Obama and Biden to stick with his original quid-pro-quo deal to trade government cash for election rigging via his boyfriends at Google and Facebook. Tesla was the money conduit for a bunch of political scammy.

Biden and his cheerleader actress front girl: Jennifer Granholm, bounced into office with a Wizard of Oz promise to give everybody electric cars. They were so wrong about the pitfalls of their plan and they hired so many idiot sex freaks and unicorn fart unaware fools that their scheme blew up...instantly and literally.

Lithium ion batteries: Cause wars, rape and genocide in the Congo, Afghanistan and Bolivia from the corrupt mining deals involved with mining lithium and cobalt; are insider trading-owned by ex-CIA boss Woolsey and DOE Boss Chu; excrete chemicals that mutate fetuses when they burn; destroy your brain, lungs and nervous system when they burn; kill the factory workers who make them; cause Panasonic to be one of the most corrupt companies in the world; poison the Earth when disposed of; can’t be extinguished by firemen; poison firemen when they burn; are based on criminally corrupt mining schemes like URANIUM ONE; Have over 61 toxic chemicals in them; come from an industry that spends billions on internet shills and trolls used to say all other forms of energy; are insider-trading owned by corrupt U.S. Senators who are running a SAFETY COVER-UP about their dangers. Apple products with lithium ion batteries have been exploding and setting people on fire; over time the chemical dendrites inside each battery grow worse and increase the chances of explosion as they age.

“ --- LITHIUM ION BATTERIES BECOME MORE AND MORE LIKELY TO EXPLODE AS TIME GOES ON AND AS THEY AGE; “ Bad Guys” have figured out how to make them explode remotely; have their dangers hidden by CNN and MSM because pretty much only the DNC people profit from them; are the heart of Elon Musk’s stock market scam. The Obama Administration promised Silicon Valley oligarchs the market monopoly on lithium ion batteries and the sabotage of fuel cells in exchange for campaign financing and search engine rigging; United States Senators that are supposed to protect us from these deadly products own the stock market assets of them so they protect them and stop the FDA, OSHA, DOT and NHTSA from outlawing them.

---- WRITE YOUR ELECTED REPRESENTATIVE AND DEMAND THAT LITHIUM ION BATTERIES BE MADE ILLEGAL TO SELL! NiCAD and Hundreds of other battery chemistries DO NOT have all of these problems but Lithium Ion batteries get a monopoly because of politician insider trading ownerships. A recent fire on U.S. Highway 101 near Mountain View, CA, burned the driver alive and killed him. In Florida two kids died in a Tesla, burned alive, screaming in agony. A man died in agony in a Tesla crash in Malibu that set Malibu Canyon on fire.

---- A young woman, at the start of life, and her boyfriend were burned alive in their crashed Tesla. There are many more deaths and crashes than you have heard about. The deaths and the cover-ups are endless. Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies and they cover-up and halt investigations and laws designed to save the public. They, and their cronies, spend over \$1B a year to still and troll hype about lithium ion batteries and cover-up the dangers.

---- Lithium ion EVs are more prone to battery fires. Experts say that their lithium-ion batteries can fuel hotter fires that release toxic fumes and are more difficult to put out. Lithium ion fires keep reigniting which explains why it takes so long and requires copious amounts of water or foam (it is an electric fire, after all) to smother the flames.

---- Tesla employee Bernard Tse and his team warned Elon Musk about these dangers in 2008 and they got fired and/or warned to "say nothing" by Musk. Three top Tesla engineers died in a plane crash next to Tesla offices in San Carlos after two of them agreed to become whistle-blowers. Elon Musk exists because he bribed DNC politicians and Senators Feinstein, Reid, Boxer, Harris, Clinton and Pelosi to give him free taxpayer cash and government resources from the Dept. of Energy and the Calif treasury.

---- DOE has been covering-up organized crime activities at DOE in which DOE funds are being used as a slush-fund to pay off DNC campaign financiers and to pay for CIA/GPS Fusion-Class attacks on Silicon Valley business competitors of those DNC campaign financiers who DOE staff share stock market holdings with. Elon Musk is a criminal, a mobster, an asshole, a bald fake-hair wearing, plastic surgery-addicted, douchebag, woman-abusing, sex addicted, tax evader. -

--- Musk exploits poor people and child slaves in the Congo and Afghanistan to mine his lithium and Cobalt. Musk spends billions per year to hire Russian trolls, fake blogger fan-boys and buy fake news self-aggrandizement articles about himself. Musk thinks he is the "Jesus" of Silicon Valley. Fake News manipulator Google is run by Larry Page and Larry is Musk's investor and bromance butt buddy.

---- Musk uses massive numbers of shell companies and trust funds to self-deal, evade the law and hide his bribes and stock market insider trading. A huge number of Tesla drivers have been killed; pedestrians and oncoming drivers have also been killed, and Musk covers it up. The DNC and the MSM refuse to allow any articles about Musk's crimes to be printed because they benefit from Musk's crimes.

---- Musk has been professionally diagnosed as a "psychotic narcissist." A "Silicon Valley Mafia; cartel of frat boy sociopath venture capitalists like Steve Jurvetson, Tim Draper, Eric Schmidt, et al; threaten those who do not support the cult of Tesla or their political candidates. In EVERY blog that you read that mentions "Musk", at least 1/3 of the comments have been placed there by Musk's paid shills.

---- Musk holds the record for getting sued for fraud by his investors, wives, former partners, employees, suppliers and co-founders. Elon Musk has gone out of his way to hire hundreds of ex-CIA staff and assign them to "dirty tricks teams" to attack his competitors and elected officials who Musk hates.

---- Musk never founded his companies. Musk's "Starlink" satellites are domestic spy and political manipulation tools "never get your internet from one. Musk stole Tesla in a hostile ownership take-over

from Marty the true inventor of the Tesla.

---- The same kind of EMF radiation proven to cause cancer from cell phones exists in massive amounts in a Tesla. Musk can't fix a car or build a rocket and has almost no mechanical skills. If you pull a report of every VIN# of every Tesla ever built and cross reference that with insurance, repair and lawsuit records you will find that the "per volume" fire, crash, death and defect rate is THE WORST of any car maker in history!

---- Musk is a lying con artist and partners with Goldman Sachs to rig the stock market. Sachs has a dedicated team of 18 men who rig stocks and valuation bumps for Musk. Over 1000 witnesses can prove every one of those claims in any live televised Congressional hearing! Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies.

---- That is why they criminally help cover-up investigations of Tesla! All of this was reported, in writing, to James Comey, Patricia Rich and David Johnson at the FBI. The DNC bosses own the stock in lithium, Solar and EV markets and use kickbacks from those markets (Especially via convoluted campaign finance laundering via Elon Musk) to finance the DNC. The DNC bosses use character assassination as their main political tool against any member of the public who speaks out against their felony stock market scams and PizzaGate-like scandals.

---- The Harvey Weinstein reports by Ronan Farrow show that they have teams of hired goons that they pay to destroy people's lives. They use Black Cube, Mossad, In-Q-Tel, Stratfor, Gawker Media, Gizmodo Media, Media Matters, David Brock, Sid Blumenthal, NY Times, Google servers, Facebook servers, Podesta Group, Perkins Coie, Covington and Burling and a host of "assassins" .

---- It should be a felony to hire character assassins in the USA. DEMAND A LAW and DEMAND the termination of these attack services. IE: Gawker and Gizmodo Media sets-up the attack stories and, in paid partnership with Google, Google kicks their attack links around the globe, in front of 8 Billion people, forever. Google locks the attack articles of its enemies on the front top search results of Google search results forever, on purpose!

---- That is why Google is being terminated in the largest, most well resourced anti-corruption public service take-down in history! Tesla and Musk are protected by shareholders Harris, Pelosi, Feinstein, Brown and Newsom. Panasonic (indicted for bribery and Musk's partner) spends billions of dollars annually cover-up lithium battery fires and battery defects.

---- There are hundreds of millions of people in America. The same 120 of them are all involved in operating the same crimes and corruption including: the Sony Pictures corruption; the Afghanistan rare earth mine scandals operated through The Energy Department political slush fund that involves the lithium battery cover-ups (headed by Elon Musk); the Big Tech Brotopia rape, sex trafficking, bribery, exclusionism, racism and misogyny issues they were taught at Stanford University; The Facebook "Meta" Google "Alphabet" Netflix, et al, coordinated news manipulation and domestic spying that they engage in; the hiring of Fusion GPS "Black Cube" Gizmodo/Gawker assassins; the destruction of the housing market by their mass real estate manipulations; patent theft and industrial espionage; and the bribery of almost every politician all the way up to the Oval Office.

---- So, while the categories covered in this investigation may seem diverse. They are connected through an enterprise of criminality and illicit, coordinated operations. We list, by name, the 120 most complicit individuals organizing these crimes, in the evidence documents already submitted to the FBI, FINCEN, DOJ, FTC, SEC, FEC, Congress, InterPol and other authorities. Digital financial tracking of those persons and all of their family members should be assumed to have been under way for some time. Wire-taps and device taps of

those persons and all of their family members should be assumed to have been under way for some time.

More is coming, check back...

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KEY FEDERAL INVESTIGATION TARGETS FOR INDICTMENT, ARREST, SURVEILLANCE AND FORCED PUNITIVE BANKRUPTCY

A.J. Delaurioâ€ Defamation-for-sale blogger

Abound Solar - Criminally corrupt crony campaign finance front operation. **Targeted For Bankruptcy For Abuse Of The Public**

Adam Dachisâ€ Defamation-for-sale blogger

Adam Weinsteinâ€ Defamation-for-sale blogger

Adrian Covertâ€ Defamation-for-sale blogger - **Targeted For Bankruptcy For Abuse Of The Public**

Adrien Chenâ€ Defamation-for-sale blogger

Al Dâ€ Amato, Park Strategies. The former GOP New York senator has been a big advocate for online gambling as a lobbyist for the Poker Players Alliance.

Al Mottur and Manuel Ortiz, Brownstein Hyatt Farber Schreck. Mottur heads up lobbying operations at the K Street giant. Ortiz, one of Brownsteinâ€ s newest hires, is a rising star in Democratic circles.

Alan Henryâ€ Defamation-for-sale blogger

Albert Burnekoâ€ Defamation-for-sale blogger

Alex Balkâ€ Defamation-for-sale blogger

Alexander Pareeneâ€ Defamation-for-sale blogger

Alexander Sternhell, Sternhell Group. Previously a Senate Banking Committee staffer, Sternhellâ€ s two-year-old venture is in the big leagues with clients such as Citigroup Management and PricewaterhouseCoopers.

Alexandra Philippidesâ€ Defamation-for-sale blogger

Allison Spinner â€ Wife of Steve Spinner and lawyer at WSGR and Solyndra who helped Feinstein rig the Solyndra cash ((Under investigation. All assets being tracked and terminated.)

Allison Wentzâ€ Defamation-for-sale blogger

Alphabet - Privacy abuse, spy-on-the-public, Fake News election rigger, Clinton/DNC scheme financier (Under Federal and EU investigation) **Targeted For Bankruptcy For Abuse Of The Public**

Andrew Collinsâ€ Defamation-for-sale blogger

Andrew Magaryâ€ Defamation-for-sale blogger

Andrew McCormack

Andrew Orinâ€ Defamation-for-sale blogger

Andy Barbour, Smith-Free Group. Smith lobbies for several financial and insurance companies but is best known for his work as the lead Democratic lobbyist for the Financial Services Roundtable.

Andy Bechtolsheim â€ VC- Insider campaign backer (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€i)

Aneesh Chopra

Angelica Alzonaâ€ Defamation-for-sale blogger

Anna Merlanâ€ Defamation-for-sale blogger

Ariana Cohenâ€ Defamation-for-sale blogger

Arnold Schwarzenegger â€ Governor (Accused of political bribery and kickbacks; tax evasion, illicit deal organization with Russians and moreâ€i)

Ashley Feinbergâ€ Defamation-for-sale blogger

Austin Lau

Ava Gyurinaâ€ Defamation-for-sale blogger

Barack Obama â€ Chicago politician

Barry Petcheskyâ€ Defamation-for-sale blogger

Bill Daley â€ White House strong-arm (Forced to resign)(he is now under investigation)

Bill Gurley

Bill Lockyer â€ Calif State finance head (Under investigation and sex scandal conflicts, charged with corruption by media. Assets and ownerships under investigation)

Bob Livingston, The Livingston Group. Republican Livingston, a former House Appropriations Committee chairman, is a statesman on K Street.

Brendan I. Koernerâ€ Defamation-for-sale blogger

Brendan Oâ€ Connorâ€ Defamation-for-sale blogger

Brent Roseâ€ Defamation-for-sale blogger

Brian Goncher â€ Deloitte VC intermediary in the stock market rigging (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€i)

Brian Hickeyâ€ Defamation-for-sale blogger

Brobeck Law Firm - Targeted For Bankruptcy For Abuse Of The Public

Camila Cabrerâ€ Defamation-for-sale blogger

Carl Gordon

Chad Hurley

Charles Stenholm, Olsson Frank Weeda Terman Bode Matz PC. Stenholmâ€ s decades of experience on the House Committee on Agriculture will be called upon as Congress crafts the next farm bill.

Cheryl Sandberg â€ Facebook boss, reports to Larry Summers

Choiré Sichaâ€ Defamation-for-sale blogger

Chris Jennings, Jennings Policy Strategies. A sage on healthcare reform, Jennings worked on President Clintonâ€ s reform push and later lobbied on Obamaâ€ s bill.

Chris Mohneryâ€ Defamation-for-sale blogger

Chuck Brain, Capitol Hill Strategies Inc. Once a Clinton White House aide and longtime House Ways and Means Committee staffer, Brain would make any list of the best-known Democratic lobbyists in town.

Civis Analytics â€ Social manipulation group -Targeted For Bankruptcy For Abuse Of The Public

Clover Hopeâ€ Defamation-for-sale blogger

Covington & Burling - Targeted For Bankruptcy For Abuse Of The Public

Dan Tate Jr., Capitol Solutions. Tate delivers stellar client relations while harnessing 10 years of upper-level Hill and administration experience.

Daniel Boston, Health Policy Source. Bostonâ€ s numerous healthcare clients turn to him for the policy expertise he honed as a GOP aide on Capitol Hill.

Daniel Cohen â€ DOE Legal counsel who assisted in the Steven Chu scam (Sent packing/fired/forced to resign)

Daniel Morganâ€ Defamation-for-sale blogger

Dark Money Group relay

Dave McClure â€˜ VC

David Axelrod â€˜ White House strategist who helped stage the quid-pro-quo (Sent packing/fired/forced to resign)(he is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€˜)

David Castagnetti and Alex Vogel, Mehlman Vogel Castagnetti. The bipartisan shop has heavy hitters on both sides of the aisle, thanks to Democrat Castagnetti.

David Danielson

David Drummond â€˜ Lawyer/Lobbyistâ€˜ Google, bribes expert for DC and EU regions (Under investigation. Quail Road, Woodside, CA home bugged)

David Matthewsâ€˜ Defamation-for-sale blogger

David Mott

David Plouffe â€˜ White House money packager. Arranged deals between VC campaign Donors (Forced to Resign. Under investigation)

David Prend

David Sacks

David Sandalow

Debbie Wasserman Schultz

Denis McDonough â€˜ White House adviser

Diana Moskovitzâ€˜ Defamation-for-sale blogger

Dianne Feinstein â€˜ California politician

Doyle Bartlett, Eris Group. Bartlett has years of Capitol Hill experience and a busy lobbying practice that is on the front lines for clients including MetLife, Genentech and eBay.

Draper - Fisher â€˜ VC firm (Campaign funder who received massive windfalls from Russian mining & tech start-up rigging) - **Targeted For Bankruptcy For Abuse Of The Public**

Eleanor Shechetâ€˜ Defamation-for-sale blogger

Elizabeth Spiersâ€˜ Defamation-for-sale blogger

Elizabeth Starkeyâ€˜ Defamation-for-sale blogger

Elon Musk â€˜ CEO â€˜ Tesla (He is now under investigation & in multiple lawsuits for fraud)(accused of political bribery and kickbacks; tax evasion, and moreâ€˜) (All of his personal assets, investments and portfolio holdings are under investigation) **Targeted For Bankruptcy For Abuse Of The Public**

Emerson Collective - Targeted For Bankruptcy For Abuse Of The Public

Emily Gouldâ€˜ Defamation-for-sale blogger

Emily Herzigâ€˜ Defamation-for-sale blogger

Emma Carmichaelâ€˜ Defamation-for-sale blogger

Eric Holder â€˜ Attorney General- DOJ (Forced to resign) (Charged with staff & VC Protections and blockade of FBI and Special Prosecutor deployments in order to run the cover-up)

Eric Paley

Eric Schmidt â€˜ Owner- Google (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€˜) - **Targeted For Bankruptcy For Abuse Of The Public**

Eric Strickland â€˜ Head of Auto Safety agency under DOT (Sent packing/fired/forced to resign)(he is now under investigation. Charged with cover-up of Tesla and GM auto dangers he had known about)

Erin Ryanâ€˜ Defamation-for-sale blogger

Ethan Sommerâ€˜ Defamation-for-sale blogger

Eyal Ebelâ€˜ Defamation-for-sale blogger

Facebook - Privacy abuse, spy-on-the-public, Fake News election rigger, Clinton/DNC scheme financier (Failing, rapidly decreasing users and increasing fake ad stats disclosures) - **Targeted For Bankruptcy For Abuse Of The Public**

Fisker - Criminally corrupt crony campaign finance front operation. **Targeted For Bankruptcy For Abuse Of The Public**

Fred Graefe, Law Offices of Frederick H. Graefe. Graefe is a force among Democratic healthcare lobbyists.

Fusion GPS â€˜ Defamation and journalist bribery service - **Targeted For Bankruptcy For Abuse Of The Public**

Gabriel Burt

Gabrielle Bluestoneâ€“ Defamation-for-sale blogger

Gabrielle Darbyshireâ€“ Defamation-for-sale blogger and attack services director

Gawker Media â€“ DNC/Clinton/Obama character assassination media tool - **Targeted For Bankruptcy For Abuse Of The Public**

Gizmodo Media - Targeted For Bankruptcy For Abuse Of The Public

Georgina K. Fairclothâ€“ Defamation-for-sale blogger

Gerald Cassidy and Gregg Hartley, Cassidy & Associates. The trailblazing firm has regained momentum by diversifying its practice following a staff shake-up late last year.

Gilman Louie â€“ VC, founder on IN-Q-Tel

Gizmodo â€“ DNC/Clinton/Obama character assassination media tool (Failing, rapidly decreasing users and increasing fake ad stats disclosures) **Targeted For Bankruptcy For Abuse Of The Public**

Goldman Sachs â€“ Financial packager (Suspected of staging most of the TARP/DOE deals for personal gain & insider payouts)

Google, Inc. â€“ Data harvesting company(Ran media attacks, stock market pump and dump PR hype and character assassinations)(accused of political bribery and kickbacks; tax evasion, and moreâ€“) (charged by EU, and most nations, with multiple abuses of the public. Has totally lost the trust of the public. Revenue loss increasing geometrically.) **Targeted For Bankruptcy For Abuse Of The Public**

Gregory Howardâ€“ Defamation-for-sale blogger

Greylock Capital â€“ Silicon Valley Insider trading operator (Under investigation) **Targeted For Bankruptcy For Abuse Of The Public**

Hamilton Nolanâ€“ Defamation-for-sale blogger

Hannah Keyserâ€“ Defamation-for-sale blogger

Harry Reid â€“ Senator- Solar factory guru, Congress lead (Accused of political bribery and kickbacks; tax evasion, and moreâ€““Forced out of Congress in shame)

Heather Deitrichâ€“ Defamation-for-sale blogger

Heather Podesta, Heather Podesta + Partners. The former congressional aide has built a solid lobbying practice and helps fundraise for Democrats with her husband, Tony.

Hillary Clinton â€“ Dynastic politician

Hudson Hongoâ€“ Defamation-for-sale blogger

Hugo Schwyzerâ€“ Defamation-for-sale blogger

Hunter Slatonâ€“ Defamation-for-sale blogger

Ian Fetteâ€“ Defamation-for-sale blogger and Google, Gawker, Jalopnik, Gizmodo media assassin

In-Q-Tel, Inc. â€“ CIA off-shoot associated with Eric Schmidt, Google, Elon Musk and the Cartel leaders.

Ran â€“ hit-jobsâ€“ on Silicon Valley VC adversaries and reporters (Sued, under investigation, exposed in multiple documentaries, under investigation for Cocaine trafficking. Removal of charity status demanded) -

Targeted For Bankruptcy For Abuse Of The Public

Ira Ehrenpreis â€“ VC Campaign backer (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€“) (All of his personal assets, investments and portfolio holdings are under investigation)

Irin Carmonâ€“ Defamation-for-sale blogger

Ivanpah Solar - Criminally corrupt crony Google campaign finance front operation. - **Targeted For Bankruptcy For Abuse Of The Public**

J. Steven Hart, Williams & Jensen. Hart is a sought-after GOP fundraiser who has steered the ship for more than a decade as Williams & Jensenâ€“ s chairman and CEO.

Jack Lew

Jacque Littlefield â€“ VC, Dead

Jalopnik â€“ Online defamation facade political publication. Pretends to be about cars but is DNC hit job rag - **Targeted For Bankruptcy For Abuse Of The Public**

James Bronkema â€“ West Coast Money Man for David Rockefeller and Feinstein financier - **Targeted For Bankruptcy For Abuse Of The Public**

James Brown Jr â€“ HHS Programming lead in California (Arrested for corruption)

James J. Cookeâ€ˆ Defamation-for-sale blogger

James Kingâ€ˆ Defamation-for-sale blogger

Jared Cohen â€ˆ Google boss and international political manipulator

Jawed Karim

Hunter Biden

Jay Carney â€ˆ White House press lead (Forced to resign)

Jeff Berman and David Russell, Bryan Cave. Berman, the former delegate counter for President Obamaâ€™s 2008 campaign, and Russell, a former chief of staff to the late Sen. Ted Stevens (R-Alaska), are standouts on a capable lobby team.

Jeff Lieberman

Jeff Peck, Peck, Madigan, Jones & Stewart. Once an aide to then-Sen. Joe Biden (D-Del.) on the Senate Judiciary Committee, Peck has carved out a niche working on the Dodd-Frank reform law.

Jeffrey Zients

Jennifer Ouelletteâ€ˆ Defamation-for-sale blogger

Jeremy Stoppelman

Jerry Brown â€ˆ California politician

Jesse Oxfeldâ€ˆ Defamation-for-sale blogger

Jessica Cohenâ€ˆ Defamation-for-sale blogger

Jesus Diazâ€ˆ Defamation-for-sale blogger

Jillian Schulzâ€ˆ Defamation-for-sale blogger

Jim Blanchard and Ilia Rodriguez, DLA Piper. Blanchard, a former Democratic governor of Michigan, and Rodriguez, an ex-lobbyist for the Center for American Progress, are at the vanguard of a formidable K Street team.

Jim Breyer â€ˆ VC and CIA intermediary

Jim Goetz

Jim Pitts and Chris Cox, Navigators Global. Pittsâ€™s firm has welcomed back GOP consultant Mike Murphy, adding more Republican talent to pair with Cox, a skilled hand from the George W. Bush White House.

Joanna Rothkopfâ€ˆ Defamation-for-sale blogger

Joe Lonsdale â€ˆ VC, famous for rape and abuse scandal and domestic spying via Palantir

Joe Rhodes â€ˆ White House shill

Joel Johnson, The Glover Park Group. The former aide to Sen. Tom Daschle (D-S.D.) helps manage one of the marquee Democratic-leaning firms in town.

Johanna Shelton

John Breaux and Trent Lott, Breaux-Lott Leadership Group. Now merged with Patton Boggs, the two former senators are going strong with a profitable lobbying practice anchored by several blue-chip clients.

John Cookâ€ˆ Defamation-for-sale blogger and director of media assassins group

John Doerr â€ˆ Owner â€ˆ Kleiner Perkins. â€ˆ Godfatherâ€ˆ â€ˆ Silicon Valley Cartel (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€ˆ!)(All of his personal assets, investments and portfolio holdings are under investigation) **Targeted For Bankruptcy For Abuse Of The Public**

John Herrman â€ˆ Defamation-for-sale blogger - **Targeted For Bankruptcy For Abuse Of The Public**

John Lindfors

John Podesta â€ˆ White House adviser

John Raffaelli, Capitol Counsel. The former Democratic staffer has more than 25 years of expertise in taxation and international trade â€ˆ two issues at the top of the congressional agenda.

Jonathan Silver â€ˆ DOE VC (Sent packing/fired/forced to resign)(he is now under investigation. Shamed in media for epic failures)

Jordan Sargentâ€ˆ Defamation-for-sale blogger

Joseph Keenan Trotterâ€ˆ Defamation-for-sale blogger

Josh Ackil and Matt Tanielian, Franklin Square Group. With clients including Apple, Google and Intel, the two Democrats are among the elite lobbyists for Silicon Valley in Washington.

Josh Kopelman
 Josh Steinâ€ Defamation-for-sale blogger
 Joshua Wright
 JP Gan
 Julia Allisonâ€ Defamation-for-sale blogger
 Julianne E. Shepherdâ€ Defamation-for-sale blogger
 Julie Domenick, Multiple Strategies LLC. The Democratic lobbyist, who was once targeted by the K Street Project, has flourished by opening her own firm.
 Justin Hydeâ€ Defamation-for-sale blogger
 Kamala Harrisâ€ Defamation-for-sale blogger
 Kate Driesâ€ Defamation-for-sale blogger
 Katharine Trendacostaâ€ Defamation-for-sale blogger
 Katherine Feinstein
 Katherine Drummondâ€ Defamation-for-sale blogger
 Kathy Zoi
 Keith Rabois -VC
 Kelly Stoutâ€ Defamation-for-sale blogger
 Ken Alex â€ Adviser to Jerry Brown
 Ken Duberstein and Marti Thomas, The Duberstein Group. Duberstein was floated as a candidate for Obamaâ€ s chief of staff before the president chose Bill Daley, while Thomas is a Democratic vet who worked in the Clinton Treasury Department.
 Ken Howery â€ VC
 Kenneth Kies, Federal Policy Group. Kies will be one to watch during the corporate tax reform debate because he was a key aide during the last overhaul of the tax code.
 Kerrie Uthoffâ€ Defamation-for-sale blogger
 Kevin Draperâ€ Defamation-for-sale blogger
 Kleiner Perkins â€ Campaign funding VC who (Received massive windfalls from Russian mining & tech start-up rigging. Sued. Under investigation. All assets being tracked)
 Lacey Donohueâ€ Defamation-for-sale blogger
Lachlan Seward â€ Energy Department gatekeeper - Targeted For Bankruptcy For Abuse Of The Public
 Lanny Griffith and Loren Monroe, BGR Group. Though it has added Democrats, Griffith and Monroeâ€ s firm is known for GOP connections and has benefitted from long-standing ties to the new House leadership.
 Larry Oâ€ Brien, OB-C Group. Oâ€ Brien is one of the most potent Democratic fundraisers in the country.
Larry Page â€ Google Boss - - Targeted For Bankruptcy For Abuse Of The Public
 Larry Summers â€ VC
 Licy Do Canto, The DoCanto Group. The former aide to Rep. Barney Frank (D-Mass.) and the late Sen. Edward Kennedy (D-Mass.) is a highly regarded healthcare lobbyist.
 Linda Daschle, LHD & Associates. Daschle, a former administrator for the Federal Aviation Administration, remains one of Washingtonâ€ s top aviation lobbyists.
 Linda Tarplin, Tarplin, Downs & Young. Tarplin remained among the elite healthcare lobbyists during the reform debate, and her GOP background makes the 112th Congress a prime time to display her prowess.
 Lisa Kountoupes, Kountoupes Consulting. The former aide to Rep. John Dingell (D-Mich.) has her own lobby shop and contracts with Best Buy, Yahoo and Intel.
 Lloyd Craig Blankfein â€ VC and Sachs boss
 Lucy Hallerâ€ Defamation-for-sale blogger
 Luke Maloneâ€ Defamation-for-sale blogger
 Melanie Nutter â€ Pelosi Top Aide
 Luke Nosek
 Madeleine Daviesâ€ Defamation-for-sale blogger
 Madeline Davisâ€ Defamation-for-sale blogger
Marc Andreessen -VC - Targeted For Bankruptcy For Abuse Of The Public

Marc Lampkin and Jack Quinn, Quinn Gillespie & Associates. Republican Lampkin and Democrat Quinn make for a blockbuster pairing.

Mario Aguilarâ€“ Defamation-for-sale blogger

Mario Rosatti â€“ VC

Mark Isakowitz, Fierce, Isakowitz and Blalock. Isakowitz and his GOP lobby shop scored a coup this year when Apple and Facebook both signed up as clients in a two-week span.

Mark Kadesh, Kadesh & Associates. Kadesh, once chief of staff to Sen. Dianne Feinstein (D-Calif.), has an A-list of California clients and a reputation as a real pro.

Mark Rayder, Alston + Bird. Rayderâ€“ s Hill experience in appropriations and healthcare policy makes for a dynamite combination.

Mark Zuckerberg â€“ Facebook Boss

Martin LaGod -VC Firelake Cap - - Targeted For Bankruptcy For Abuse Of The Public

Marty Paone, Prime Policy Group. Paone spent decades on Capitol Hill working for Senate Democrats and is part of the leadership team at Prime Policy, one of K Streetâ€“ s most successful firms.

Mary Meeker â€“ VC

Matt Hardigreeâ€“ Defamation-for-sale blogger

Matt Keelen, The Keelen Group. The Republican lobbyist and campaign guru is a bridge to labor for the GOP.

Matt Novakâ€“ Defamation-for-sale blogger

Matt Rogers â€“ VC and pass-through conduit

Max Levchin -VC

Mckinsey Consulting â€“ The firm you hire to rig white papers and insider hires in government positions for the Palo Alto Mafia - **Targeted For Bankruptcy For Abuse Of The Public**

Megan Smith

Melissa Schulman, The Bockorny Group. A former aide to Rep. Steny Hoyer (D-Md.), Schulman has the connections to centrist Democrats that are always prized on K Street.

Michael Ballabanâ€“ Defamation-for-sale blogger

Michael Dobbsâ€“ Defamation-for-sale blogger

Michael Eisenberg

Michael Herson, American Defense International. Hersonâ€“ s Pentagon and White House experience has been an asset to him as president of the successful defense consulting and lobbying firm.

Michael Moritz -VC

Michael Spinelliâ€“ Defamation-for-sale blogger

Mike Fulton, GolinHarris. Fulton is well versed in the minutiae of the Washington bureaucracy and is adept at finding federal grants for his clients.

Mike House, Hogan & Lovells. House leads the government relations practice at the firm and calls the shots on a prized account with Nissan North America.

Mikey Dickerson

Mitch Feuer and Robert Griner, Rich Feuer Group. The two lobbyists work for first-tier clients from the financial services world, including Visa and Goldman Sachs.

Morrison and Foerster

Nancy Pelosi â€“ California politician

Nathan Parker

Neal Ungerleiderâ€“ Defamation-for-sale blogger

Neerag Agrawal

Nicholas Asterâ€“ Defamation-for-sale blogger

Nicholas Guido Dentonâ€“ Defamation-for-sale blogger and head of the Gawker, Gizmodo, Jalopnik sleaze tabloid empire - **Targeted For Bankruptcy For Abuse Of The Public**

Nick Allard, Thomas Hale Boggs Jr., Micah Green, Jonathan Yarowsky and Edward Newberry, Patton Boggs. The firm continues to reign on K Street thanks to its roster of seasoned power brokers.

Nick Giordano, Washington Council Ernst & Young. A former counsel to the Senate Finance Committee, Giordano is one of the best tax lobbyists in town.

Omar Kardoudiâ€ Defamation-for-sale blogger

Owen Thomasâ€ Defamation-for-sale blogger

Patrick Georgeâ€ Defamation-for-sale blogger and Character Assassination expert

Patrick Laffoonâ€ Defamation-for-sale blogger

Patrick Redfordâ€ Defamation-for-sale blogger

Perkins Coie â€ Campaign conduit law firm

Peter Fenton

Peter Thiel â€ VC

Pierre Omidyarâ€ Defamation-for-sale blogger

Rahm Emanuel â€ White House boss

Raj Gupta â€ VC, arrested

Rakesh Saxena â€ Canadian in-house arrest, arms dealer, western political packager

Ray Lane â€ VC

Reid Hoffman â€ VC and sex.com partner with Gary Kremen, also match.com - **Targeted For Bankruptcy For Abuse Of The Public**

Rhod Shaw, The Alpine Group. Shaw is an astute observer of Congress who has worked on several major pieces of environmental and telecommunications legislation.

Rich Gold, Kathryn Lehman and Gerry Sikorski, Holland & Knight. The firmâ€ s flourishing lobbying practice is plugged in to both parties.

Rich Juzwiakâ€ Defamation-for-sale blogger

Rich Tarplin, Tarplin Strategies. Tarplin exemplifies the breed of lobbyist who makes a living by out-working the competition.

Richard Blakelyâ€ Defamation-for-sale blogger

Richard Blum â€ VC and director/husband of Dianne Feinstein - - **Targeted For Bankruptcy For Abuse Of The Public**

Richard Rushfieldâ€ Defamation-for-sale blogger

Rick Kessler and Steve Sayle, Dow Lohnes Government Strategies. The former House Energy and Commerce Committee aides â€ Kessler a Democrat and Sayle a Republican â€ have built a well-established lobbying practice.

Robert Fingerâ€ Defamation-for-sale blogger

Robert Gibbs â€ White press office head

Robert Raben, The Raben Group. Raben, a former aide to Rep. Barney Frank (D-Mass.) and Clinton Justice Department official, runs one of the best Democratic-leaning lobby shops in town with clients in the corporate and nonprofit world.

Robert Sorokanichâ€ Defamation-for-sale blogger

Robert Van Heuvelen, VH Strategies. Van Heuvelen shrewdly surrounds himself with the best; he recently hired Stephen Ward, formerly chief of staff to Sen. Jeff Bingaman (D-N.M.), to help keep his firm among the elite.

Rodger Currie, Foley Hoag LLP. A former lobbyist for PhRMA, Currie now works for several clients at Foley Hoag in the healthcare, medical and biotechnology fields.

Roelof Botha

Rory Walzerâ€ Defamation-for-sale blogger

Rosa Golijanâ€ Defamation-for-sale blogger

Russel Simmons

Ryan Brownâ€ Defamation-for-sale blogger

Ryan Goldbergâ€ Defamation-for-sale blogger

Sam Faulkner Biddleâ€ Defamation-for-sale blogger, Runs a large part of the Anti-GOP blog programs

Sam Geduldig, Clark Lytle Geduldig & Cranford. The former House Republican leadership aide has seen a business boom at his firm since the GOP takeover of the lower chamber.

Sam Woolleyâ€ Defamation-for-sale blogger

Samar Kalafâ€ Defamation-for-sale blogger

Sander Lurie and Todd Weiss, SNR Denton. Lurie, a former chief of staff to Sen. Debbie Stabenow

(D-Mich.), and Weiss, who has worked for former Sens. Tim Hutchinson (R-Texas) and Rick Santorum (R-Pa.), make for a strong one-two punch.

Sandi Stuart and Vin Weber, Clark & Weinstock. Stuart's executive experience under President Clinton and Weber's past as a GOP congressman from Minnesota have lured a diverse clientele to the firm.

Sanjay Wagle - VC

Sarah Ramey - Defamation-for-sale blogger

Scott Segal, Bracewell & Giuliani. Segal is a respected advocate for several electric utilities and energy companies and played a big part in the industry response to the Gulf of Mexico oil spill.

Scott Shleiffer

Sergy Brin - Google boss - Targeted For Bankruptcy For Abuse Of The Public

Shannon Marie Donnelly - Defamation-for-sale blogger

Shep McAllister - Defamation-for-sale blogger

Slade Gorton and Emanuel Rouvelas, K&L Gates. Gorton, an ex-GOP senator from Washington, and Democrat Rouvelas are just a few of the big names at the prominent law and lobby firm.

Solyndra Solar Company - FBI raided corrupt Clean Tech company - Targeted For Bankruptcy For Abuse Of The Public

Sophie Kleeman - Defamation-for-sale blogger

SpaceX - Elon Musk company that Obama gave part of NASA to in exchange for campaign conduits - Targeted For Bankruptcy For Abuse Of The Public

Stephen Totilo - Defamation-for-sale blogger

Steve Chen

Steve Elmendorf and Jimmy Ryan, Elmendorf | Ryan. A former aide to ex-House Democratic Leader Richard Gephardt (Mo.), Elmendorf brought in Ryan to help expand the Senate ties of his thriving firm.

Steve Jurvetson - VC embroiled in sex abuse charges

Steve McBee, McBee Strategic. A former aide to Rep. Norm Dicks (D-Wash.), McBee has seen his lobby firm take off.

Steve Perry and Andy Wright, Dutko Grayling. Perry and Wright man the roster for one of the top 20 lobby shops in Washington.

Steve Rattner - White House car czar, indicted for fraud

Steve Spinner - Energy Department manipulation expert, Wife was Solyndra's lawyer

Steve Westly - VC

Steven Chu - Secretary of Energy - The most corrupt in US history

Stu Van Scoyoc, Van Scoyoc Associates. The man who founded a top-earning lobby firm specializing on taxation and appropriations will have plenty of work in the months ahead.

Tamar Winberg - Defamation-for-sale blogger

Taryn Schweitzer - Defamation-for-sale blogger

Taylor McKnight - Defamation-for-sale blogger

Ted Schlein

Tesla Motors - Car Company that conduits money to campaigns - Targeted For Bankruptcy For Abuse Of The Public

The Groundwork - Social manipulation group - - Targeted For Bankruptcy For Abuse Of The Public

Thomas Jolly, Jolly/Rissler. Jolly is founding chairman of the Washington Caucus, a group that hosts dinners with lawmakers, and a mainstay among Democratic lobbyists.

Theranos - Targeted For Bankruptcy For Abuse Of The Public

Thomas Quinn, Venable. Quinn's ebullient personality is complemented by deep knowledge of the financial sector that dates back to his time as general counsel to the Comptroller of the Currency.

Thorin Klosowski - Defamation-for-sale blogger

Tim Draper - VC

Tim Marchman - Defamation-for-sale blogger

Timothy Burke - Defamation-for-sale blogger

Tobey Grumet Segal - Defamation-for-sale blogger

Todd Park - IT manipulator inside White House

Tom Leyâ€ Defamation-for-sale blogger

Tom Oâ€ Donnell, Gephardt Government Affairs Group. Oâ€ Donnell and his former Capitol Hill boss, ex-House Democratic Leader Richard Gephardt (Mo.), have done well since joining forces.

Tom Perkins â€ Dead KPCB Palo Alto Mafia founder

Tom Scoccaâ€ Defamation-for-sale blogger

Tom Sheridan, The Sheridan Group. Sheridan uses his social services and public policy experience to bolster causes that donâ€ t fit the typical K Street mold.

Tom Steyer â€ VC -

Tomorrow Ventures â€ Social manipulation group - - Targeted For Bankruptcy For Abuse Of The Public

Tony Podesta, Podesta Group. The prolific Democratic fundraiser has seen his firm rocket to the echelons of the top five lobby shops.

Tracy Spicer, Avenue Solutions. Spicer mastered policy working for the late Sen. Edward Kennedy (D-Mass.) and is a trusted adviser for a number of leading health insurers.

Twitter - Targeted For Bankruptcy For Abuse Of The Public

Veronica de Souzaâ€ Defamation-for-sale blogger

Victor Fazio, Joel Jankowsky, Scott Parven and Bill Paxon, Akin, Gump, Strauss, Hauer & Feld. Fazio, Jankowsky, Parven and Paxon are among the lobbyists who keep Akiwn Gump humming along as one of the top earners on K Street.

Viktor Vekselberg â€ Russian business entity

Vinod Khosla -VC

Wayne Berman, Drew Maloney and Moses Mercado, Ogilvy Government Relations. Ogilvyâ€ s commanding K Street presence reflects the firmâ€ s deep ties to leaders in both parties.

Wes Silerâ€ Defamation-for-sale blogger

William Haisleyâ€ Defamation-for-sale blogger

William Turtonâ€ Defamation-for-sale blogger

Wilson Sonsini Partner Club

Wilson, Sonsini, Goodrich and Rosatti - - Targeted For Bankruptcy For Abuse Of The Public

XXXX ...Plus additional persons to be named...

THE LITHIUM BATTERY POLITICAL PROFITEERING LIES

Fuel Cell electric cars solve all of the problems of lithium ion electric cars but DNC billionaires own the mines for lithium ion batteries, so they sabotage and blockade fuel cell electric cars. As warned, there is not enough lithium ion to solve America's electric car problem and the whole lithium ion electric car industry has crashed as everyone realizes that what they were warned about lithium ion is true.

Corrupt political families conspire to give government funds, contracts, tax waivers, buildings, stock market profits and other insider perks to themselves and their friends. They also conspire to blockade, harm, sabotage and black-list those who compete with them and their friends. These corrupt politicians are never prosecuted for their crimes, and can laugh in the face of those who point out their crimes, because they control the prosecution system. Their Quid Pro Quo criminal corruption is the single largest cause of the taxpayer hatred of Congress.

What Went Wrong With The Electric Car Industry?

Only men seem to start car companies. Most psychologists say that this is because men see cars as dick insecurity emblems.

Elon Musk is known to be a wildly insecure narcissist who feels that he must get every woman, that he can find, pregnant in order to prove his manhood to his abusive father, who got his sister pregnant.

Musk embodies the ultimate expression of “car-as-dick” thinking because Musk was not only molded by his purse-swinging, kept-woman, mother, abusive father and crooked brother but also by the Silicon Valley frat boy rape-culture.

Silicon Valley is, of course, the Eden of modern misogyny and tech-bro douche-baggery.

Musk dragged all of the biggest assholes from Silicon Valley, The DNC and Goldman Sachs into his Tech Cartel. Together they created a temporary monopoly in the electric car industry by exchanging stock market payola with Senators and White House staff who, in exchange, locked off the electric car and space industries just for Musk.

But that scheme was not sustainable. It was amazingly crooked and lucrative but, it could not last. It was Big Tech’s Roman Empire and it was doomed to fail spectacularly.

Musk counted on Obama and Biden to stick with his original quid-pro-quo deal to trade government cash for election rigging via his boyfriends at Google and Facebook. Tesla was the money conduit for a bunch of political scammy.

Biden and his cheerleader actress front girl: Jennifer Granholm, bounced into office with a Wizard of Oz promise to give everybody electric cars. They were so wrong about the pitfalls of their plan and they hired so many idiot sex freaks and unicorn fart unaware fools that their scheme blew up...instantly and literally.

Elon Musk and the Senators he owns: Pelosi, Harris and Feinstein, will lie, until their dying day about these batteries that they all own stock in! -

--- Lithium ion batteries: Cause wars, rape and genocide in the Congo, Afghanistan and Bolivia from the corrupt mining deals involved with mining lithium and cobalt; are insider trading-owned by ex-CIA boss Woolsey and DOE Boss Chu; excrete chemicals that mutate fetuses when they burn; destroy your brain, lungs and nervous system when they burn; kill the factory workers who make them; cause Panasonic to be one of the most corrupt companies in the world; poison the Earth when disposed of; can’t be extinguished by firemen; poison firemen when they burn; are based on criminally corrupt mining schemes like URANIUM ONE; Have over 61 toxic chemicals in them; come from an industry that spends billions on internet shills and trolls used to say all other forms of energy; are insider-trading owned by corrupt U.S. Senators who are running a SAFETY COVER-UP about their dangers.

---- Apple products with lithium ion batteries have been exploding and setting people on fire; over time the chemical dendrites inside each battery grow worse and increase the chances of explosion as they age

“ LITHIUM ION BATTERIES BECOME MORE AND MORE LIKELY TO EXPLODE AS TIME GOES ON AND AS THEY AGE; “ Bad Guys” have figured out how to make them explode remotely; have their dangers hidden by CNN and MSM because pretty much only the DNC people profit from them; are the heart of Elon Musk’s stock market scam.

---- The Obama Administration promised Silicon Valley oligarchs the market monopoly on lithium ion batteries and the sabotage of fuel cells in exchange for campaign financing and search engine rigging; United States Senators that are supposed to protect us from these deadly products own the stock market assets of them so they protect them and stop the FDA, OSHA, DOT and NHTSA from outlawing them. WRITE YOUR ELECTED REPRESENTATIVE AND DEMAND THAT LITHIUM ION BATTERIES BE MADE ILLEGAL TO SELL! NiCAD and Hundreds of other battery chemistries DO NOT have all of these problems but Lithium Ion batteries get a monopoly because of politician insider trading ownerships.

---- A recent fire on U.S. Highway 101 near Mountain View, CA, burned the driver alive and killed him. In Florida two kids died in a Tesla, burned alive, screaming in agony. A man died in agony in a Tesla crash in Malibu that set Malibu Canyon on fire. A young woman, at the start of life, and her boyfriend were burned alive in their crashed Tesla.

---- There are many more deaths and crashes than you have heard about. The deaths and the cover-ups are endless. Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies and they cover-up and halt investigations and laws designed to save the public. They, and their cronyists, spend over \$1B a year to still and troll hype about lithium ion batteries and cover-up the dangers. Lithium ion EVs are more prone to battery fires. Experts say that their lithium-ion batteries can fuel hotter fires that release toxic fumes and are more difficult to put out.

---- Lithium ion fires keep reigniting which explains why it takes so long and requires copious amounts of water or foam (it is an electric fire, after all) to smother the flames. Tesla employee Bernard Tse and his team warned Elon Musk about these dangers in 2008 and they got fired and/or warned to "say nothing" by Musk. Three top Tesla engineers died in a plane crash next to Tesla offices in San Carlos after two of them agreed to become whistle-blowers. Elon Musk exists because he bribed DNC politicians and Senators Feinstein, Reid, Boxer, Harris, Clinton and Pelosi to give him free taxpayer cash and government resources from the Dept. of Energy and the Calif treasury.

---- DOE has been covering-up organized crime activities at DOE in which DOE funds are being used as a slush-fund to pay off DNC campaign financiers and to pay for CIA/GPS Fusion-Class attacks on Silicon Valley business competitors of those DNC campaign financiers who DOE staff share stock market holdings with. Elon Musk is a criminal, a mobster, an asshole, a bald fake-hair wearing, plastic surgery-addicted, douchebag, woman-abusing, sex addicted, tax evader.

---- Musk exploits poor people and child slaves in the Congo and Afghanistan to mine his lithium and Cobalt. Musk spends billions per year to hire Russian trolls, fake blogger fan-boys and buy fake news self-aggrandizement articles about himself. Musk thinks he is the "Jesus" of Silicon Valley. Fake News manipulator Google is run by Larry Page and Larry is Musk's investor and bromance butt buddy.

---- Musk uses massive numbers of shell companies and trust funds to self-deal, evade the law and hide his bribes and stock market insider trading. A huge number of Tesla drivers have been killed; pedestrians and oncoming drivers have also been killed, and Musk covers it up.

---- The DNC and the MSM refuse to allow any articles about Musk's crimes to be printed because they benefit from Musk's crimes. Musk has been professionally diagnosed as a "psychotic narcissist." A "Silicon Valley Mafia; cartel of frat boy sociopath venture capitalists like Steve Jurvetson, Tim Draper, Eric Schmidt, et al; threaten those who do not support the cult of Tesla or their political candidates.

---- In EVERY blog that you read that mentions "Musk", at least 1/3 of the comments have been placed there by Musk's paid shills. Musk holds the record for getting sued for fraud by his investors, wives, former partners, employees, suppliers and co-founders.

---- Elon Musk has gone out of his way to hire hundreds of ex-CIA staff and assign them to â€˜dirty tricks teamsâ€™ to attack his competitors and elected officials who Musk hates. Musk never founded his companies. Muskâ€™s â€˜Starlinkâ€™ satellites are domestic spy and political manipulation tools â€˜never get your internet from one. Musk stole Tesla in a hostile ownership take-over from Marty the true inventor of the Tesla.

---- The same kind of EMF radiation proven to cause cancer from cell phones exists in massive amounts in a Tesla. Musk canâ€™t fix a car or build a rocket and has almost no mechanical skills. If you pull a report of every VIN# of every Tesla ever built and cross reference that with insurance, repair and lawsuit records you will find that the â€˜per volumeâ€™ fire, crash, death and defect rate is THE WORST of any car maker in history!

---- Musk is a lying con artist and partners with Goldman Sachs to rig the stock market. Sachs has a dedicated team of 18 men who rig stocks and valuation bumps for Musk. Over 1000 witnesses can prove every one of those claims in any live televised Congressional hearing! Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies.

---- That is why they criminally help cover-up investigations of Tesla! All of this was reported, in writing, to James Comey, Patricia Rich and David Johnson at the FBI. The DNC bosses own the stock in lithium, Solar and EV markets and use kickbacks from those markets (Especially via convoluted campaign finance laundering via Elon Musk) to finance the DNC. The DNC bosses use character assassination as their main political tool against any member of the public who speaks out against their felony stock market scams and PizzaGate-like scandals.

---- The Harvey Weinstein reports by Ronan Farrow show that they have teams of hired goons that they pay to destroy peopleâ€™s lives. They use Black Cube, Mossad, In-Q-Tel, Stratfor, Gawker Media, Gizmodo Media, Media Matters, David Brock, Sid Blumenthal, NY Times, Google servers, Facebook servers, Podesta Group, Perkins Coie, Covington and Burling and a host of â€˜assassinsâ€™.

---- It should be a felony to hire character assassins in the USA. DEMAND A LAW and DEMAND the termination of these attack services. IE: Gawker and Gizmodo Media sets-up the attack stories and, in paid partnership with Google, Google kicks their attack links around the globe, in front of 8 Billion people, forever. Google locks the attack articles of its enemies on the front top search results of Google search results forever, on purpose!

---- That is why Google is being terminated in the largest, most well resourced anti-corruption public service take-down in history! Tesla and Musk are protected by shareholders Harris, Pelosi, Feinstein, Brown and Newsom. Panasonic (indicted for bribery and Muskâ€™s partner) spends billions of dollars annually cover-up lithium battery fires and battery defects.

---- There are hundreds of millions of people in America. The same 120 of them are all involved in operating the same crimes and corruption including: the Sony Pictures corruption; the Afghanistan rare earth mine scandals operated through The Energy Department political slush fund that involves the lithium battery cover-ups (headed by Elon Musk); the Big Tech Brotopia rape, sex trafficking, bribery, exclusionism, racism and misogyny issues they were taught at Stanford University;

---- The Facebook â€˜Metaâ€™ Google â€˜Alphabetâ€™ Netflix, et al, coordinated news manipulation and domestic spying that they engage in; the hiring of Fusion GPS â€˜Black Cubeâ€™ Gizmodo/Gawker assassins; the destruction of the housing market by their mass real estate manipulations; patent theft and industrial espionage; and the bribery of almost every politician all the way up to the Oval Office.

---- So, while the categories covered in this investigation may seem diverse. They are connected through an enterprise of criminality and illicit, coordinated operations. We list, by name, the 120 most complicit individuals organizing these crimes, in the evidence documents already submitted to the FBI, FINCEN, DOJ, FTC, SEC, FEC, Congress, InterPol and other authorities. Digital financial tracking of those persons and all of their family members should be assumed to have been under way for some time. Wire-taps and device taps of those persons and all of their family members should be assumed to have been under way for some time.

Elon Musk's Electric Car Batteries Made By Forced Labor Overseas

Increasing ties have been found between the origin of the batteries needed to power the technology and forced labor in Chinese work camps.

[Jarryd Jaeger Vancouver, BC](#)

As many environmentalists push for a quick transition to electric vehicles and clean energy, increasing ties have been found between the origin of the batteries needed to power the technology and forced labor in Chinese work camps.

One province in particular, Xinjiang, is facing mounting criticism as more details emerge surrounding working conditions for members of the Uyghur Muslim minority. [According](#) to the *New York Times*, while China produces 75 percent of the world's lithium ion batteries, much of the raw material is mined elsewhere. In recent years, however, the Chinese government has set their sights on controlling all aspects of the supply chain.

In order to compete with other countries, China has ramped up production in the western province of Xinjiang, home to the nation's Uyghur Muslim minority.

As the *Times* [reports](#), companies such as Xinjiang Nonferrous Metal Industry Group have partnered with the Chinese government to move hundreds of Uyghurs from the south to the industrialized north where they are put to work in mines, smelters, and factories producing lithium, nickel, manganese, beryllium, copper and gold.

While such companies deny that their workers are mistreated, reports show that Uyghurs are subject to what could easily be deemed to be forced labor.

Uyghurs who refuse to work in accordance with Chinese government policies are often sent to internment camps, and in May it was [revealed](#) that many of those camps have a "shoot-to-kill" policy for those who attempt to escape.

Thus, the official claim that "all employment is voluntary" is not supported.

In addition to forced labor, Uyghurs are also subjected to re-education, wherein government-appointed "teachers" attempt to create loyal subjects to the nation and communist regime.

On June 21, a new law will go into effect in the United States called the "Uyghur Forced Labor Prevention Act." As NPR [reports](#), it gives the US authority to seize goods produced in Xinjiang unless companies can prove they did not engage in forced labor practices.

It's true that doing so will be resisted by Democrats who don't want to slow the deployment of solar panels and electric cars in the US, and be resisted by free market Republicans, but the evidence is clear and this is becoming a moral and national security imperative.

â“ Michael Shellenberger (@ShellenbergerMD) [June 20, 2022](#)

Environmental realist, author, and California gubernatorial candidate Michael Shellenberger is one of many calling on the Biden administration to go one step further and ban the importation of all goods from Xinjiang. He says the US should instead focus on manufacturing green technology at home.

As he points out, however, the decision would face pushback from both Democrats "who don't want to slow the deployment of solar panels and electric cars in the US," and "free market Republicans."

The world has shone a spotlight on the Chinese government's treatment of the Uyghurs in Xinjiang, but it remains to be seen whether the Communist Party and the companies to which it is so closely tied will change their practices.

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KEY FEDERAL INVESTIGATION TARGETS FOR INDICTMENT, ARREST, SURVEILLANCE AND FORCED PUNITIVE BANKRUPTCY

A.J. Delaurioâ“ Defamation-for-sale blogger

Abound Solar - Criminally corrupt crony campaign finance front operation. **Targeted For Bankruptcy For Abuse Of The Public**

Adam Dachisâ“ Defamation-for-sale blogger

Adam Weinsteinâ“ Defamation-for-sale blogger

Adrian Covertâ“ Defamation-for-sale blogger - **Targeted For Bankruptcy For Abuse Of The Public**

Adrien Chenâ“ Defamation-for-sale blogger

Al Dâ“ Amato, Park Strategies. The former GOP New York senator has been a big advocate for online gambling as a lobbyist for the Poker Players Alliance.

Al Mottur and Manuel Ortiz, Brownstein Hyatt Farber Schreck. Mottur heads up lobbying operations at the K Street giant. Ortiz, one of Brownsteinâ“ s newest hires, is a rising star in Democratic circles.

Alan Henryâ“ Defamation-for-sale blogger

Albert Burnekoâ“ Defamation-for-sale blogger

Alex Balkâ“ Defamation-for-sale blogger

Alexander Pareeneâ€ Defamation-for-sale blogger

Alexander Sternhell, Sternhell Group. Previously a Senate Banking Committee staffer, Sternhellâ€™s two-year-old venture is in the big leagues with clients such as Citigroup Management and PricewaterhouseCoopers.

Alexandra Philippidesâ€ Defamation-for-sale blogger

Allison Spinner â€ Wife of Steve Spinner and lawyer at WSGR and Solyndra who helped Feinstein rig the Solyndra cash ((Under investigation. All assets being tracked and terminated.)

Allison Wentzâ€ Defamation-for-sale blogger

Alphabet - Privacy abuse, spy-on-the-public, Fake News election rigger, Clinton/DNC scheme financier (Under Federal and EU investigation) **Targeted For Bankruptcy For Abuse Of The Public**

Andrew Collinsâ€ Defamation-for-sale blogger

Andrew Magaryâ€ Defamation-for-sale blogger

Andrew McCormack

Andrew Orinâ€ Defamation-for-sale blogger

Andy Barbour, Smith-Free Group. Smith lobbies for several financial and insurance companies but is best known for his work as the lead Democratic lobbyist for the Financial Services Roundtable.

Andy Bechtolsheim â€ VC- Insider campaign backer (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€i)

Aneesh Chopra

Angelica Alzonaâ€ Defamation-for-sale blogger

Anna Merlanâ€ Defamation-for-sale blogger

Ariana Cohenâ€ Defamation-for-sale blogger

Arnold Schwarzenegger â€ Governor (Accused of political bribery and kickbacks; tax evasion, illicit deal organization with Russians and moreâ€i)

Ashley Feinbergâ€ Defamation-for-sale blogger

Austin Lau

Ava Gyurinaâ€ Defamation-for-sale blogger

Barack Obama â€ Chicago politician

Barry Petcheskyâ€ Defamation-for-sale blogger

Bill Daley â€ White House strong-arm (Forced to resign)(he is now under investigation)

Bill Gurley

Bill Lockyer â€ Calif State finance head (Under investigation and sex scandal conflicts, charged with corruption by media. Assets and ownerships under investigation)

Bob Livingston, The Livingston Group. Republican Livingston, a former House Appropriations Committee chairman, is a statesman on K Street.

Brendan I. Koernerâ€ Defamation-for-sale blogger

Brendan Oâ€™Connorâ€ Defamation-for-sale blogger

Brent Roseâ€ Defamation-for-sale blogger

Brian Goncher â€ Deloitte VC intermediary in the stock market rigging (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€i)

Brian Hickeyâ€ Defamation-for-sale blogger

Brobeck Law Firm - Targeted For Bankruptcy For Abuse Of The Public

Camila Cabrerâ€ Defamation-for-sale blogger

Carl Gordon

Chad Hurley

Charles Stenholm, Olsson Frank Weeda Terman Bode Matz PC. Stenholmâ€™s decades of experience on the House Committee on Agriculture will be called upon as Congress crafts the next farm bill.

Cheryl Sandberg â€ Facebook boss, reports to Larry Summers

Choire Sichaâ€ Defamation-for-sale blogger

Chris Jennings, Jennings Policy Strategies. A sage on healthcare reform, Jennings worked on President Clintonâ€™s reform push and later lobbied on Obamaâ€™s bill.

Chris Mohnneyâ€ Defamation-for-sale blogger

Chuck Brain, Capitol Hill Strategies Inc. Once a Clinton White House aide and longtime House Ways and Means Committee staffer, Brain would make any list of the best-known Democratic lobbyists in town.

Civis Analytics â€” Social manipulation group -**Targeted For Bankruptcy For Abuse Of The Public**
Clover Hopeâ€” Defamation-for-sale blogger

Covington & Burling - Targeted For Bankruptcy For Abuse Of The Public

Dan Tate Jr., Capitol Solutions. Tate delivers stellar client relations while harnessing 10 years of upper-level Hill and administration experience.

Daniel Boston, Health Policy Source. Bostonâ€” s numerous healthcare clients turn to him for the policy expertise he honed as a GOP aide on Capitol Hill.

Daniel Cohen â€” DOE Legal counsel who assisted in the Steven Chu scam (Sent packing/fired/forced to resign)

Daniel Morganâ€” Defamation-for-sale blogger

Dark Money Group relay

Dave McClure â€” VC

David Axelrod â€” White House strategist who helped stage the quid-pro-quo (Sent packing/fired/forced to resign)(he is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€”)

David Castagnetti and Alex Vogel, Mehلمان Vogel Castagnetti. The bipartisan shop has heavy hitters on both sides of the aisle, thanks to Democrat Castagnetti.

David Danielson

David Drummond â€” Lawyer/Lobbyistâ€” Google, bribes expert for DC and EU regions (Under investigation. Quail Road, Woodside, CA home bugged)

David Matthewsâ€” Defamation-for-sale blogger

David Mott

David Plouffe â€” White House money packager. Arranged deals between VC campaign Donors (Forced to Resign. Under investigation)

David Prend

David Sacks

David Sandalow

Debbie Wasserman Schultz

Denis McDonough â€” White House adviser

Diana Moskovitzâ€” Defamation-for-sale blogger

Dianne Feinstein â€” California politician

Doyle Bartlett, Eris Group. Bartlett has years of Capitol Hill experience and a busy lobbying practice that is on the front lines for clients including MetLife, Genentech and eBay.

Draper - Fisher â€” VC firm (Campaign funder who received massive windfalls from Russian mining & tech start-up rigging) - **Targeted For Bankruptcy For Abuse Of The Public**

Eleanor Shechetâ€” Defamation-for-sale blogger

Elizabeth Spiersâ€” Defamation-for-sale blogger

Elizabeth Starkeyâ€” Defamation-for-sale blogger

Elon Musk â€” CEO â€” Tesla (He is now under investigation & in multiple lawsuits for fraud)(accused of political bribery and kickbacks; tax evasion, and moreâ€”) (All of his personal assets, investments and portfolio holdings are under investigation) **Targeted For Bankruptcy For Abuse Of The Public**

Emerson Collective - Targeted For Bankruptcy For Abuse Of The Public

Emily Gouldâ€” Defamation-for-sale blogger

Emily Herzigâ€” Defamation-for-sale blogger

Emma Carmichaelâ€” Defamation-for-sale blogger

Eric Holder â€” Attorney General- DOJ (Forced to resign) (Charged with staff & VC Protections and blockade of FBI and Special Prosecutor deployments in order to run the cover-up)

Eric Paley

Eric Schmidt â€” Owner- Google (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€”) - **Targeted For Bankruptcy For Abuse Of The Public**

Eric Strickland â€” Head of Auto Safety agency under DOT (Sent packing/fired/forced to resign)(he is now

under investigation. Charged with cover-up of Tesla and GM auto dangers he had known about)

Erin Ryanâ€ˆ“ Defamation-for-sale blogger

Ethan Sommerâ€ˆ“ Defamation-for-sale blogger

Eyal Ebelâ€ˆ“ Defamation-for-sale blogger

Facebook - Privacy abuse, spy-on-the-public, Fake News election rigger, Clinton/DNC scheme financier (Failing, rapidly decreasing users and increasing fake ad stats disclosures) - **Targeted For Bankruptcy For Abuse Of The Public**

Fisker - Criminally corrupt crony campaign finance front operation. **Targeted For Bankruptcy For Abuse Of The Public**

Fred Graefe, Law Offices of Frederick H. Graefe. Graefe is a force among Democratic healthcare lobbyists.

Fusion GPS â€ˆ“ Defamation and journalist bribery service - **Targeted For Bankruptcy For Abuse Of The Public**

Gabriel Burt

Gabrielle Bluestoneâ€ˆ“ Defamation-for-sale blogger

Gabrielle Darbyshireâ€ˆ“ Defamation-for-sale blogger and attack services director

Gawker Media â€ˆ“ DNC/Clinton/Obama character assassination media tool - **Targeted For Bankruptcy For Abuse Of The Public**

Gizmodo Media - **Targeted For Bankruptcy For Abuse Of The Public**

Georgina K. Fairclothâ€ˆ“ Defamation-for-sale blogger

Gerald Cassidy and Gregg Hartley, Cassidy & Associates. The trailblazing firm has regained momentum by diversifying its practice following a staff shake-up late last year.

Gilman Louie â€ˆ“ VC, founder on IN-Q-Tel

Gizmodo â€ˆ“ DNC/Clinton/Obama character assassination media tool (Failing, rapidly decreasing users and increasing fake ad stats disclosures) **Targeted For Bankruptcy For Abuse Of The Public**

Goldman Sachs â€ˆ“ Financial packager (Suspected of staging most of the TARP/DOE deals for personal gain & insider payouts)

Google, Inc. â€ˆ“ Data harvesting company(Ran media attacks, stock market pump and dump PR hype and character assassinations)(accused of political bribery and kickbacks; tax evasion, and moreâ€ˆ“) (charged by EU, and most nations, with multiple abuses of the public. Has totally lost the trust of the public. Revenue loss increasing geometrically.) **Targeted For Bankruptcy For Abuse Of The Public**

Gregory Howardâ€ˆ“ Defamation-for-sale blogger

Greylock Capital â€ˆ“ Silicon Valley Insider trading operator (Under investigation) **Targeted For Bankruptcy For Abuse Of The Public**

Hamilton Nolanâ€ˆ“ Defamation-for-sale blogger

Hannah Keyserâ€ˆ“ Defamation-for-sale blogger

Harry Reid â€ˆ“ Senator- Solar factory guru, Congress lead (Accused of political bribery and kickbacks; tax evasion, and moreâ€ˆ“iForced out of Congress in shame)

Heather Deitrichâ€ˆ“ Defamation-for-sale blogger

Heather Podesta, Heather Podesta + Partners. The former congressional aide has built a solid lobbying practice and helps fundraise for Democrats with her husband, Tony.

Hillary Clinton â€ˆ“ Dynastic politician

Hudson Hongoâ€ˆ“ Defamation-for-sale blogger

Hugo Schwyzerâ€ˆ“ Defamation-for-sale blogger

Hunter Slatonâ€ˆ“ Defamation-for-sale blogger

Ian Fetteâ€ˆ“ Defamation-for-sale blogger and Google, Gawker, Jalopnik, Gizmodo media assassin

In-Q-Tel, Inc. â€ˆ“ CIA off-shoot associated with Eric Schmidt, Google, Elon Musk and the Cartel leaders.

Ran â€ˆ“ hit-jobsâ€ˆ“ on Silicon Valley VC adversaries and reporters (Sued, under investigation, exposed in multiple documentaries, under investigation for Cocaine trafficking. Removal of charity status demanded) -

Targeted For Bankruptcy For Abuse Of The Public

Ira Ehrenpreis â€ˆ“ VC Campaign backer (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€ˆ“) (All of his personal assets, investments and portfolio holdings are under investigation)

Irin Carmonâ“ Defamation-for-sale blogger

Ivanpah Solar - Criminally corrupt crony Google campaign finance front operation. - **Targeted For Bankruptcy For Abuse Of The Public**

J. Steven Hart, Williams & Jensen. Hart is a sought-after GOP fundraiser who has steered the ship for more than a decade as Williams & Jensenâ“ s chairman and CEO.

Jack Lew

Jacque Littlefield â“ VC, Dead

Jalopnik â“ Online defamation facade political publication. Pretends to be about cars but is DNC hit job rag - **Targeted For Bankruptcy For Abuse Of The Public**

James Bronkema â“ West Coast Money Man for David Rockefeller and Feinstein financier - **Targeted For Bankruptcy For Abuse Of The Public**

James Brown Jr â“ HHS Programming lead in California (Arrested for corruption)

James J. Cookeâ“ Defamation-for-sale blogger

James Kingâ“ Defamation-for-sale blogger

Jared Cohen â“ Google boss and international political manipulator

Jawed Karim

Hunter Biden

Jay Carney â“ White House press lead (Forced to resign)

Jeff Berman and David Russell, Bryan Cave. Berman, the former delegate counter for President Obamaâ“ s 2008 campaign, and Russell, a former chief of staff to the late Sen. Ted Stevens (R-Alaska), are standouts on a capable lobby team.

Jeff Lieberman

Jeff Peck, Peck, Madigan, Jones & Stewart. Once an aide to then-Sen. Joe Biden (D-Del.) on the Senate Judiciary Committee, Peck has carved out a niche working on the Dodd-Frank reform law.

Jeffrey Zients

Jennifer Ouelletteâ“ Defamation-for-sale blogger

Jeremy Stoppelman

Jerry Brown â“ California politician

Jesse Oxfeldâ“ Defamation-for-sale blogger

Jessica Cohenâ“ Defamation-for-sale blogger

Jesus Diazâ“ Defamation-for-sale blogger

Jillian Schulzâ“ Defamation-for-sale blogger

Jim Blanchard and Ilia Rodriguez, DLA Piper. Blanchard, a former Democratic governor of Michigan, and Rodriguez, an ex-lobbyist for the Center for American Progress, are at the vanguard of a formidable K Street team.

Jim Breyer â“ VC and CIA intermediary

Jim Goetz

Jim Pitts and Chris Cox, Navigators Global. Pittsâ“ s firm has welcomed back GOP consultant Mike Murphy, adding more Republican talent to pair with Cox, a skilled hand from the George W. Bush White House.

Joanna Rothkopfâ“ Defamation-for-sale blogger

Joe Lonsdale â“ VC, famous for rape and abuse scandal and domestic spying via Palantir

Joe Rhodes â“ White House shill

Joel Johnson, The Glover Park Group. The former aide to Sen. Tom Daschle (D-S.D.) helps manage one of the marquee Democratic-leaning firms in town.

Johanna Shelton

John Breaux and Trent Lott, Breaux-Lott Leadership Group. Now merged with Patton Boggs, the two former senators are going strong with a profitable lobbying practice anchored by several blue-chip clients.

John Cookâ“ Defamation-for-sale blogger and director of media assassins group

John Doerr â“ Owner â“ Kleiner Perkins. â“ Godfatherâ“ â“ Silicon Valley Cartel (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ“!)(All of his personal assets, investments and portfolio holdings are under investigation) **Targeted For Bankruptcy For Abuse Of**

The Public

John Herrman â€˜ Defamation-for-sale blogger - **Targeted For Bankruptcy For Abuse Of The Public**

John Lindfors

John Podesta â€˜ White House adviser

John Raffaelli, Capitol Counsel. The former Democratic staffer has more than 25 years of expertise in taxation and international trade â€˜ two issues at the top of the congressional agenda.

Jonathan Silver â€˜ DOE VC (Sent packing/fired/forced to resign)(he is now under investigation. Shamed in media for epic failures)

Jordan Sargentâ€˜ Defamation-for-sale blogger

Joseph Keenan Trotterâ€˜ Defamation-for-sale blogger

Josh Ackil and Matt Tanielian, Franklin Square Group. With clients including Apple, Google and Intel, the two Democrats are among the elite lobbyists for Silicon Valley in Washington.

Josh Kopelman

Josh Steinâ€˜ Defamation-for-sale blogger

Joshua Wright

JP Gan

Julia Allisonâ€˜ Defamation-for-sale blogger

Julianne E. Shepherdâ€˜ Defamation-for-sale blogger

Julie Domenick, Multiple Strategies LLC. The Democratic lobbyist, who was once targeted by the K Street Project, has flourished by opening her own firm.

Justin Hydeâ€˜ Defamation-for-sale blogger

Kamala Harrisâ€˜ Defamation-for-sale blogger

Kate Driesâ€˜ Defamation-for-sale blogger

Katharine Trendacostaâ€˜ Defamation-for-sale blogger

Katherine Feinstein

Katherine Drummondâ€˜ Defamation-for-sale blogger

Kathy Zoi

Keith Rabois -VC

Kelly Stoutâ€˜ Defamation-for-sale blogger

Ken Alex â€˜ Adviser to Jerry Brown

Ken Duberstein and Marti Thomas, The Duberstein Group. Duberstein was floated as a candidate for Obamaâ€˜ s chief of staff before the president chose Bill Daley, while Thomas is a Democratic vet who worked in the Clinton Treasury Department.

Ken Howery â€˜ VC

Kenneth Kies, Federal Policy Group. Kies will be one to watch during the corporate tax reform debate because he was a key aide during the last overhaul of the tax code.

Kerrie Uthoffâ€˜ Defamation-for-sale blogger

Kevin Draperâ€˜ Defamation-for-sale blogger

Kleiner Perkins â€˜ Campaign funding VC who (Received massive windfalls from Russian mining & tech start-up rigging. Sued. Under investigation. All assets being tracked)

Lacey Donohueâ€˜ Defamation-for-sale blogger

Lachlan Seward â€˜ Energy Department gatekeeper - **Targeted For Bankruptcy For Abuse Of The Public**

Lanny Griffith and Loren Monroe, BGR Group. Though it has added Democrats, Griffith and Monroeâ€˜ s firm is known for GOP connections and has benefitted from long-standing ties to the new House leadership.

Larry Oâ€˜ Brien, OB-C Group. Oâ€˜ Brien is one of the most potent Democratic fundraisers in the country.

Larry Page â€˜ Google Boss - - **Targeted For Bankruptcy For Abuse Of The Public**

Larry Summers â€˜ VC

Licy Do Canto, The DoCanto Group. The former aide to Rep. Barney Frank (D-Mass.) and the late Sen.

Edward Kennedy (D-Mass.) is a highly regarded healthcare lobbyist.

Linda Daschle, LHD & Associates. Daschle, a former administrator for the Federal Aviation Administration, remains one of Washingtonâ€˜ s top aviation lobbyists.

Linda Tarplin, Tarplin, Downs & Young. Tarplin remained among the elite healthcare lobbyists during the reform debate, and her GOP background makes the 112th Congress a prime time to display her prowess.

Lisa Kountoupes, Kountoupes Consulting. The former aide to Rep. John Dingell (D-Mich.) has her own lobby shop and contracts with Best Buy, Yahoo and Intel.

Lloyd Craig Blankfein â€˜ VC and Sachs boss

Lucy Hallerâ€˜ Defamation-for-sale blogger

Luke Maloneâ€˜ Defamation-for-sale blogger

Melanie Nutter â€˜ Pelosi Top Aide

Luke Nosek

Madeleine Daviesâ€˜ Defamation-for-sale blogger

Madeline Davisâ€˜ Defamation-for-sale blogger

Marc Andreessen -VC - Targeted For Bankruptcy For Abuse Of The Public

Marc Lampkin and Jack Quinn, Quinn Gillespie & Associates. Republican Lampkin and Democrat Quinn make for a blockbuster pairing.

Mario Aguilarâ€˜ Defamation-for-sale blogger

Mario Rosatti â€˜ VC

Mark Isakowitz, Fierce, Isakowitz and Blalock. Isakowitz and his GOP lobby shop scored a coup this year when Apple and Facebook both signed up as clients in a two-week span.

Mark Kadesh, Kadesh & Associates. Kadesh, once chief of staff to Sen. Dianne Feinstein (D-Calif.), has an A-list of California clients and a reputation as a real pro.

Mark Rayder, Alston + Bird. Rayderâ€˜ s Hill experience in appropriations and healthcare policy makes for a dynamite combination.

Mark Zuckerberg â€˜ Facebook Boss

Martin LaGod -VC Firelake Cap - - Targeted For Bankruptcy For Abuse Of The Public

Marty Paone, Prime Policy Group. Paone spent decades on Capitol Hill working for Senate Democrats and is part of the leadership team at Prime Policy, one of K Streetâ€˜ s most successful firms.

Mary Meeker â€˜ VC

Matt Hardigreeâ€˜ Defamation-for-sale blogger

Matt Keelen, The Keelen Group. The Republican lobbyist and campaign guru is a bridge to labor for the GOP.

Matt Novakâ€˜ Defamation-for-sale blogger

Matt Rogers â€˜ VC and pass-through conduit

Max Levchin -VC

Mckinsey Consulting â€˜ The firm you hire to rig white papers and insider hires in government positions for the Palo Alto Mafia - Targeted For Bankruptcy For Abuse Of The Public

Megan Smith

Melissa Schulman, The Bockorny Group. A former aide to Rep. Steny Hoyer (D-Md.), Schulman has the connections to centrist Democrats that are always prized on K Street.

Michael Ballabanâ€˜ Defamation-for-sale blogger

Michael Dobbsâ€˜ Defamation-for-sale blogger

Michael Eisenberg

Michael Herson, American Defense International. Hersonâ€˜ s Pentagon and White House experience has been an asset to him as president of the successful defense consulting and lobbying firm.

Michael Moritz -VC

Michael Spinelliâ€˜ Defamation-for-sale blogger

Mike Fulton, GolinHarris. Fulton is well versed in the minutiae of the Washington bureaucracy and is adept at finding federal grants for his clients.

Mike House, Hogan & Lovells. House leads the government relations practice at the firm and calls the shots on a prized account with Nissan North America.

Mikey Dickerson

Mitch Feuer and Robert Griner, Rich Feuer Group. The two lobbyists work for first-tier clients from the financial services world, including Visa and Goldman Sachs.

Morrison and Foerster
 Nancy Pelosi â€œ California politician
 Nathan Parker
 Neal Ungerleiderâ€œ Defamation-for-sale blogger
 Neerag Agrawal
 Nicholas Asterâ€œ Defamation-for-sale blogger
Nicholas Guido Dentonâ€œ Defamation-for-sale blogger and head of the Gawker, Gizmodo, Jalopnik sleaze tabloid empire - **Targeted For Bankruptcy For Abuse Of The Public**
 Nick Allard, Thomas Hale Boggs Jr., Micah Green, Jonathan Yarowsky and Edward Newberry, Patton Boggs. The firm continues to reign on K Street thanks to its roster of seasoned power brokers.
 Nick Giordano, Washington Council Ernst & Young. A former counsel to the Senate Finance Committee, Giordano is one of the best tax lobbyists in town.
 Omar Kardoudiâ€œ Defamation-for-sale blogger
 Owen Thomasâ€œ Defamation-for-sale blogger
 Patrick Georgeâ€œ Defamation-for-sale blogger and Character Assassination expert
 Patrick Laffoonâ€œ Defamation-for-sale blogger
 Patrick Redfordâ€œ Defamation-for-sale blogger
 Perkins Coie â€œ Campaign conduit law firm
 Peter Fenton
 Peter Thiel â€œ VC
 Pierre Omidyarâ€œ Defamation-for-sale blogger
 Rahm Emanuel â€œ White House boss
 Raj Gupta â€œ VC, arrested
 Rakesh Saxena â€œ Canadian in-house arrest, arms dealer, western political packager
 Ray Lane â€œ VC
Reid Hoffman â€œ VC and sex.com partner with Gary Kremen, also match.com - **Targeted For Bankruptcy For Abuse Of The Public**
 Rhod Shaw, The Alpine Group. Shaw is an astute observer of Congress who has worked on several major pieces of environmental and telecommunications legislation.
 Rich Gold, Kathryn Lehman and Gerry Sikorski, Holland & Knight. The firmâ€œ s flourishing lobbying practice is plugged in to both parties.
 Rich Juzwiakâ€œ Defamation-for-sale blogger
 Rich Tarplin, Tarplin Strategies. Tarplin exemplifies the breed of lobbyist who makes a living by out-working the competition.
 Richard Blakelyâ€œ Defamation-for-sale blogger
Richard Blum â€œ VC and director/husband of Dianne Feinstein - - **Targeted For Bankruptcy For Abuse Of The Public**
 Richard Rushfieldâ€œ Defamation-for-sale blogger
 Rick Kessler and Steve Sayle, Dow Lohnes Government Strategies. The former House Energy and Commerce Committee aides â€œ Kessler a Democrat and Sayle a Republican â€œ have built a well-established lobbying practice.
 Robert Fingerâ€œ Defamation-for-sale blogger
 Robert Gibbs â€œ White press office head
 Robert Raben, The Raben Group. Raben, a former aide to Rep. Barney Frank (D-Mass.) and Clinton Justice Department official, runs one of the best Democratic-leaning lobby shops in town with clients in the corporate and nonprofit world.
 Robert Sorokanichâ€œ Defamation-for-sale blogger
 Robert Van Heuvelen, VH Strategies. Van Heuvelen shrewdly surrounds himself with the best; he recently hired Stephen Ward, formerly chief of staff to Sen. Jeff Bingaman (D-N.M.), to help keep his firm among the elite.
 Rodger Currie, Foley Hoag LLP. A former lobbyist for PhRMA, Currie now works for several clients at Foley Hoag in the healthcare, medical and biotechnology fields.

Roelof Botha
 Rory Walzerâ€ Defamation-for-sale blogger
 Rosa Golijanâ€ Defamation-for-sale blogger
 Russel Simmons
 Ryan Brownâ€ Defamation-for-sale blogger
 Ryan Goldbergâ€ Defamation-for-sale blogger
 Sam Faulkner Biddleâ€ Defamation-for-sale blogger, Runs a large part of the Anti-GOP blog programs
 Sam Geduldig, Clark Lytle Geduldig & Cranford. The former House Republican leadership aide has seen a business boom at his firm since the GOP takeover of the lower chamber.
 Sam Woolleyâ€ Defamation-for-sale blogger
 Samar Kalafâ€ Defamation-for-sale blogger
 Sander Lurie and Todd Weiss, SNR Denton. Lurie, a former chief of staff to Sen. Debbie Stabenow (D-Mich.), and Weiss, who has worked for former Sens. Tim Hutchinson (R-Texas) and Rick Santorum (R-Pa.), make for a strong one-two punch.
 Sandi Stuart and Vin Weber, Clark & Weinstock. Stuartâ€ s executive experience under President Clinton and Weberâ€ s past as a GOP congressman from Minnesota have lured a diverse clientele to the firm.
 Sanjay Wagle â€ VC
 Sarah Rameyâ€ Defamation-for-sale blogger
 Scott Segal, Bracewell & Giuliani. Segal is a respected advocate for several electric utilities and energy companies and played a big part in the industry response to the Gulf of Mexico oil spill.
 Scott Shleiffer
Sergy Brin â€ Google boss - Targeted For Bankruptcy For Abuse Of The Public
 Shannon Marie Donnellyâ€ Defamation-for-sale blogger
 Shep McAllisterâ€ Defamation-for-sale blogger
 Slade Gorton and Emanuel Rouvelas, K&L Gates. Gorton, an ex-GOP senator from Washington, and Democrat Rouvelas are just a few of the big names at the prominent law and lobby firm.
Solyndra Solar Company â€ FBI raided corrupt Clean Tech company - Targeted For Bankruptcy For Abuse Of The Public
 Sophie Kleemanâ€ Defamation-for-sale blogger
SpaceX â€ Elon Musk company that Obama gave part of NASA to in exchange for campaign conduits - Targeted For Bankruptcy For Abuse Of The Public
 Stephen Totiloâ€ Defamation-for-sale blogger
 Steve Chen
 Steve Elmendorf and Jimmy Ryan, Elmendorf | Ryan. A former aide to ex-House Democratic Leader Richard Gephardt (Mo.), Elmendorf brought in Ryan to help expand the Senate ties of his thriving firm.
 Steve Jurvetson â€ VC embroiled in sex abuse charges
 Steve McBee, McBee Strategic. A former aide to Rep. Norm Dicks (D-Wash.), McBee has seen his lobby firm take off.
 Steve Perry and Andy Wright, Dutko Grayling. Perry and Wright man the roster for one of the top 20 lobby shops in Washington.
 Steve Rattner â€ White House car czar, indicted for fraud
 Steve Spinner â€ Energy Department manipulation expert, Wife was Solyndraâ€ s lawyer
 Steve Westly â€ VC
 Steven Chu â€ Secretary of Energy â€ The most corrupt in US history
 Stu Van Scoyoc, Van Scoyoc Associates. The man who founded a top-earning lobby firm specializing on taxation and appropriations will have plenty of work in the months ahead.
 Tamar Winbergâ€ Defamation-for-sale blogger
 Taryn Schweitzerâ€ Defamation-for-sale blogger
 Taylor McKnightâ€ Defamation-for-sale blogger
 Ted Schlein
Tesla Motors â€ Car Company that conduits money to campaigns - Targeted For Bankruptcy For Abuse Of The Public

The Groundworkâ€ Social manipulation group - - **Targeted For Bankruptcy For Abuse Of The Public**
Thomas Jolly, Jolly/Rissler. Jolly is founding chairman of the Washington Caucus, a group that hosts dinners with lawmakers, and a mainstay among Democratic lobbyists.

Theranos - Targeted For Bankruptcy For Abuse Of The Public

Thomas Quinn, Venable. Quinnâ€™s ebullient personality is complemented by deep knowledge of the financial sector that dates back to his time as general counsel to the Comptroller of the Currency.

Thorin Klosowskiâ€ Defamation-for-sale blogger

Tim Draper â€ VC

Tim Marchmanâ€ Defamation-for-sale blogger

Timothy Burkeâ€ Defamation-for-sale blogger

Tobey Grumet Segalâ€ Defamation-for-sale blogger

Todd Park â€ IT manipulator inside White House

Tom Leyâ€ Defamation-for-sale blogger

Tom Oâ€™Donnell, Gephardt Government Affairs Group. Oâ€™Donnell and his former Capitol Hill boss, ex-House Democratic Leader Richard Gephardt (Mo.), have done well since joining forces.

Tom Perkins â€ Dead KPCB Palo Alto Mafia founder

Tom Scoccaâ€ Defamation-for-sale blogger

Tom Sheridan, The Sheridan Group. Sheridan uses his social services and public policy experience to bolster causes that donâ€™t fit the typical K Street mold.

Tom Steyer â€ VC -

Tomorrow Ventures â€ Social manipulation group - - **Targeted For Bankruptcy For Abuse Of The Public**

Tony Podesta, Podesta Group. The prolific Democratic fundraiser has seen his firm rocket to the echelons of the top five lobby shops.

Tracy Spicer, Avenue Solutions. Spicer mastered policy working for the late Sen. Edward Kennedy (D-Mass.) and is a trusted adviser for a number of leading health insurers.

Twitter - Targeted For Bankruptcy For Abuse Of The Public

Veronica de Souzaâ€ Defamation-for-sale blogger

Victor Fazio, Joel Jankowsky, Scott Parven and Bill Paxon, Akin, Gump, Strauss, Hauer & Feld. Fazio, Jankowsky, Parven and Paxon are among the lobbyists who keep Akin Gump humming along as one of the top earners on K Street.

Viktor Vekselberg â€ Russian business entity

Vinod Khosla -VC

Wayne Berman, Drew Maloney and Moses Mercado, Ogilvy Government Relations. Ogilvyâ€™s commanding K Street presence reflects the firmâ€™s deep ties to leaders in both parties.

Wes Silerâ€ Defamation-for-sale blogger

William Haisleyâ€ Defamation-for-sale blogger

William Turtonâ€ Defamation-for-sale blogger

Wilson Sonsini Partner Club

Wilson, Sonsini, Goodrich and Rosatti - - Targeted For Bankruptcy For Abuse Of The Public

XXXX ...Plus additional persons to be named...

THE LITHIUM BATTERY POLITICAL PROFITEERING LIES

Fuel Cell electric cars solve all of the problems of lithium ion electric cars but DNC billionaires own the mines for lithium ion batteries, so they sabotage and blockade fuel cell electric cars. As warned, there is not enough lithium ion to solve America's electric car problem and the whole lithium ion electric car industry has crashed as everyone realizes that what they were warned about lithium ion is true.

Corrupt political families conspire to give government funds, contracts, tax waivers, buildings, stock market profits and other insider perks to themselves and their friends. They also conspire to blockade, harm, sabotage

and black-list those who compete with them and their friends. These corrupt politicians are never prosecuted for their crimes, and can laugh in the face of those who point out their crimes, because they control the prosecution system. Their Quid Pro Quo criminal corruption is the single largest cause of the taxpayer hatred of Congress.

What Went Wrong With The Electric Car Industry?

Only men seem to start car companies. Most psychologists say that this is because men see cars as dick insecurity emblems.

Elon Musk is known to be a wildly insecure narcissist who feels that he must get every woman, that he can find, pregnant in order to prove his manhood to his abusive father, who got his sister pregnant.

Musk embodies the ultimate expression of “car-as-dick” thinking because Musk was not only molded by his purse-swinging, kept-woman, mother, abusive father and crooked brother but also by the Silicon Valley frat boy rape-culture.

Silicon Valley is, of course, the Eden of modern misogyny and tech-bro douche-baggery.

Musk dragged all of the biggest assholes from Silicon Valley, The DNC and Goldman Sachs into his Tech Cartel. Together they created a temporary monopoly in the electric car industry by exchanging stock market payola with Senators and White House staff who, in exchange, locked off the electric car and space industries just for Musk.

But that scheme was not sustainable. It was amazingly crooked and lucrative but, it could not last. It was Big Tech’s Roman Empire and it was doomed to fail spectacularly.

Musk counted on Obama and Biden to stick with his original quid-pro-quo deal to trade government cash for election rigging via his boyfriends at Google and Facebook. Tesla was the money conduit for a bunch of political scammy.

Biden and his cheerleader actress front girl: Jennifer Granholm, bounced into office with a Wizard of Oz promise to give everybody electric cars. They were so wrong about the pitfalls of their plan and they hired so many idiot sex freaks and unicorn fart unaware fools that their scheme blew up...instantly and literally.

Elon Musk and the Senators he owns: Pelosi, Harris and Feinstein, will lie, until their dying day about these batteries that they all own stock in! -

--- Lithium ion batteries: Cause wars, rape and genocide in the Congo, Afghanistan and Bolivia from the corrupt mining deals involved with mining lithium and cobalt; are insider trading-owned by ex-CIA boss Woolsey and DOE Boss Chu; excrete chemicals that mutate fetuses when they burn; destroy your brain, lungs and nervous system when they burn; kill the factory workers who make them; cause Panasonic to be one of the most corrupt companies in the world; poison the Earth when disposed of; can’t be extinguished by firemen; poison firemen when they burn; are based on criminally corrupt mining schemes like URANIUM ONE; Have over 61 toxic chemicals in them; come from an industry that spends billions on internet shills and trolls used to say all other forms of energy; are insider-trading owned by corrupt U.S. Senators who are running a SAFETY COVER-UP about their dangers.

---- Apple products with lithium ion batteries have been exploding and setting people on fire; over time the chemical dendrites inside each battery grow worse and increase the chances of explosion as they age

“ LITHIUM ION BATTERIES BECOME MORE AND MORE LIKELY TO EXPLODE AS TIME GOES ON AND AS THEY AGE; “ Bad Guys” have figured out how to make them explode remotely; have their dangers hidden by CNN and MSM because pretty much only the DNC people profit from them; are the heart of Elon Musk’s stock market scam.

---- The Obama Administration promised Silicon Valley oligarchs the market monopoly on lithium ion batteries and the sabotage of fuel cells in exchange for campaign financing and search engine rigging; United States Senators that are supposed to protect us from these deadly products own the stock market assets of them so they protect them and stop the FDA, OSHA, DOT and NHTSA from outlawing them. WRITE YOUR ELECTED REPRESENTATIVE AND DEMAND THAT LITHIUM ION BATTERIES BE MADE ILLEGAL TO SELL! NiCAD and Hundreds of other battery chemistries DO NOT have all of these problems but Lithium Ion batteries get a monopoly because of politician insider trading ownerships.

---- A recent fire on U.S. Highway 101 near Mountain View, CA, burned the driver alive and killed him. In Florida two kids died in a Tesla, burned alive, screaming in agony. A man died in agony in a Tesla crash in Malibu that set Malibu Canyon on fire. A young woman, at the start of life, and her boyfriend were burned alive in their crashed Tesla.

---- There are many more deaths and crashes than you have heard about. The deaths and the cover-ups are endless. Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies and they cover-up and halt investigations and laws designed to save the public. They, and their crony's, spend over \$1B a year to shill and troll hype about lithium ion batteries and cover-up the dangers. Lithium ion EVs are more prone to battery fires. Experts say that their lithium-ion batteries can fuel hotter fires that release toxic fumes and are more difficult to put out.

---- Lithium ion fires keep reigniting which explains why it takes so long and requires copious amounts of water or foam (it is an electric fire, after all) to smother the flames. Tesla employee Bernard Tse and his team warned Elon Musk about these dangers in 2008 and they got fired and/or warned to "say nothing" by Musk. Three top Tesla engineers died in a plane crash next to Tesla offices in San Carlos after two of them agreed to become whistle-blowers. Elon Musk exists because he bribed DNC politicians and Senators Feinstein, Reid, Boxer, Harris, Clinton and Pelosi to give him free taxpayer cash and government resources from the Dept. of Energy and the Calif treasury.

---- DOE has been covering-up organized crime activities at DOE in which DOE funds are being used as a slush-fund to pay off DNC campaign financiers and to pay for CIA/GPS Fusion-Class attacks on Silicon Valley business competitors of those DNC campaign financiers who DOE staff share stock market holdings with. Elon Musk is a criminal, a mobster, an asshole, a bald fake-hair wearing, plastic surgery-addicted, douchebag, woman-abusing, sex addicted, tax evader.

---- Musk exploits poor people and child slaves in the Congo and Afghanistan to mine his lithium and Cobalt. Musk spends billions per year to hire Russian trolls, fake blogger fan-boys and buy fake news self-aggrandizement articles about himself. Musk thinks he is the "Jesus" of Silicon Valley. Fake News manipulator Google is run by Larry Page and Larry is Musk's investor and bromance butt buddy.

---- Musk uses massive numbers of shell companies and trust funds to self-deal, evade the law and hide his bribes and stock market insider trading. A huge number of Tesla drivers have been killed; pedestrians and oncoming drivers have also been killed, and Musk covers it up.

---- The DNC and the MSM refuse to allow any articles about Musk's crimes to be printed because they benefit from Musk's crimes. Musk has been professionally diagnosed as a "psychotic narcissist." A "Silicon Valley Mafia; cartel of frat boy sociopath venture capitalists like Steve Jurvetson, Tim Draper, Eric Schmidt, et al; threaten those who do not support the cult of Tesla or their political candidates.

---- In EVERY blog that you read that mentions "Musk", at least 1/3 of the comments have been placed there by Musk's paid shills. Musk holds the record for getting sued for fraud by his investors, wives, former partners, employees, suppliers and co-founders.

---- Elon Musk has gone out of his way to hire hundreds of ex-CIA staff and assign them to â€˜dirty tricks teamsâ€™ to attack his competitors and elected officials who Musk hates. Musk never founded his companies. Muskâ€™s â€˜Starlinkâ€™ satellites are domestic spy and political manipulation tools â€˜never get your internet from one. Musk stole Tesla in a hostile ownership take-over from Marty the true inventor of the Tesla.

---- The same kind of EMF radiation proven to cause cancer from cell phones exists in massive amounts in a Tesla. Musk canâ€™t fix a car or build a rocket and has almost no mechanical skills. If you pull a report of every VIN# of every Tesla ever built and cross reference that with insurance, repair and lawsuit records you will find that the â€˜per volumeâ€™ fire, crash, death and defect rate is THE WORST of any car maker in history!

---- Musk is a lying con artist and partners with Goldman Sachs to rig the stock market. Sachs has a dedicated team of 18 men who rig stocks and valuation bumps for Musk. Over 1000 witnesses can prove every one of those claims in any live televised Congressional hearing! Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies.

---- That is why they criminally help cover-up investigations of Tesla! All of this was reported, in writing, to James Comey, Patricia Rich and David Johnson at the FBI. The DNC bosses own the stock in lithium, Solar and EV markets and use kickbacks from those markets (Especially via convoluted campaign finance laundering via Elon Musk) to finance the DNC. The DNC bosses use character assassination as their main political tool against any member of the public who speaks out against their felony stock market scams and PizzaGate-like scandals.

---- The Harvey Weinstein reports by Ronan Farrow show that they have teams of hired goons that they pay to destroy peopleâ€™s lives. They use Black Cube, Mossad, In-Q-Tel, Stratfor, Gawker Media, Gizmodo Media, Media Matters, David Brock, Sid Blumenthal, NY Times, Google servers, Facebook servers, Podesta Group, Perkins Coie, Covington and Burling and a host of â€˜assassinsâ€™.

---- It should be a felony to hire character assassins in the USA. DEMAND A LAW and DEMAND the termination of these attack services. IE: Gawker and Gizmodo Media sets-up the attack stories and, in paid partnership with Google, Google kicks their attack links around the globe, in front of 8 Billion people, forever. Google locks the attack articles of its enemies on the front top search results of Google search results forever, on purpose!

---- That is why Google is being terminated in the largest, most well resourced anti-corruption public service take-down in history! Tesla and Musk are protected by shareholders Harris, Pelosi, Feinstein, Brown and Newsom. Panasonic (indicted for bribery and Muskâ€™s partner) spends billions of dollars annually cover-up lithium battery fires and battery defects.

---- There are hundreds of millions of people in America. The same 120 of them are all involved in operating the same crimes and corruption including: the Sony Pictures corruption; the Afghanistan rare earth mine scandals operated through The Energy Department political slush fund that involves the lithium battery cover-ups (headed by Elon Musk); the Big Tech Brotopia rape, sex trafficking, bribery, exclusionism, racism and misogyny issues they were taught at Stanford University;

---- The Facebook â€˜Metaâ€™ Google â€˜Alphabetâ€™ Netflix, et al, coordinated news manipulation and domestic spying that they engage in; the hiring of Fusion GPS â€˜Black Cubeâ€™ Gizmodo/Gawker assassins; the destruction of the housing market by their mass real estate manipulations; patent theft and industrial espionage; and the bribery of almost every politician all the way up to the Oval Office.

---- So, while the categories covered in this investigation may seem diverse. They are connected through an enterprise of criminality and illicit, coordinated operations. We list, by name, the 120 most complicit individuals organizing these crimes, in the evidence documents already submitted to the FBI, FINCEN, DOJ, FTC, SEC, FEC, Congress, InterPol and other authorities. Digital financial tracking of those persons and all of their family members should be assumed to have been under way for some time. Wire-taps and device taps of those persons and all of their family members should be assumed to have been under way for some time.

Elon Musk's Electric Car Batteries Made By Forced Labor Overseas

Increasing ties have been found between the origin of the batteries needed to power the technology and forced labor in Chinese work camps.

[Jarryd Jaeger Vancouver, BC](#)

As many environmentalists push for a quick transition to electric vehicles and clean energy, increasing ties have been found between the origin of the batteries needed to power the technology and forced labor in Chinese work camps.

One province in particular, Xinjiang, is facing mounting criticism as more details emerge surrounding working conditions for members of the Uyghur Muslim minority. [According](#) to the *New York Times*, while China produces 75 percent of the world's lithium ion batteries, much of the raw material is mined elsewhere. In recent years, however, the Chinese government has set their sights on controlling all aspects of the supply chain.

In order to compete with other countries, China has ramped up production in the western province of Xinjiang, home to the nation's Uyghur Muslim minority.

As the *Times* [reports](#), companies such as Xinjiang Nonferrous Metal Industry Group have partnered with the Chinese government to move hundreds of Uyghurs from the south to the industrialized north where they are put to work in mines, smelters, and factories producing lithium, nickel, manganese, beryllium, copper and gold.

While such companies deny that their workers are mistreated, reports show that Uyghurs are subject to what could easily be deemed to be forced labor.

Uyghurs who refuse to work in accordance with Chinese government policies are often sent to internment camps, and in May it was [revealed](#) that many of those camps have a "shoot-to-kill" policy for those who attempt to escape.

Thus, the official claim that "all employment is voluntary" is not supported.

In addition to forced labor, Uyghurs are also subjected to re-education, wherein government-appointed "teachers" attempt to create loyal subjects to the nation and communist regime.

On June 21, a new law will go into effect in the United States called the "Uyghur Forced Labor Prevention Act." As NPR [reports](#), it gives the US authority to seize goods produced in Xinjiang unless companies can prove they did not engage in forced labor practices.

It's true that doing so will be resisted by Democrats who don't want to slow the deployment of solar panels and electric cars in the US, and be resisted by free market Republicans, but the evidence is clear and this is becoming a moral and national security imperative.

Environmental realist, author, and California gubernatorial candidate Michael Shellenberger is one of many calling on the Biden administration to go one step further and ban the importation of all goods from Xinjiang. He says the US should instead focus on manufacturing green technology at home.

As he points out, however, the decision would face pushback from both Democrats "who don't want to slow the deployment of solar panels and electric cars in the US," and "free market Republicans."

The world has shone a spotlight on the Chinese government's treatment of the Uyghurs in Xinjiang, but it remains to be seen whether the Communist Party and the companies to which it is so closely tied will change their practices.

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THE SILICON VALLEY CARTEL MEMBERS

The Worst Ones - Rev 2.2

You would be shocked to learn how many people are killed, every day, for less than \$50.00. ISIS and the Taliban will saw your head off for just an ideology. If people would commit murder over that small an amount of money, imagine what they would do to control the trillions of dollars of money that is always moving through the stock market. These are the people that will stop at nothing for power, mansions, hookers, private jets and greed!

THE BRIBED INSIDER TRADING POLITICIANS - Tracked via financial records and email leaks to quid pro quo:

- Aneesh Chopra - White House Tech Exec
- Arnold Schwarzenegger â“ Governor (Accused of political bribery and kickbacks; tax evasion, illicit deal organization with Russians and moreâ“i)
- Barack Obama â“ Chicago politician
- Bill Daley â“ White House strong-arm (Forced to resign)(he is now under investigation)
- Bill Lockyer â“ Calif State finance head (Under investigation and sex scandal conflicts, charged with corruption by media. Assets and ownerships under investigation)
- Daniel Cohen â“ DOE Legal counsel who assisted in the Steven Chu scam (Sent packing/fired/forced to resign)
- David Axelrod â“ White House strategist who helped stage the quid-pro-quo (Sent packing/fired/forced to

resign)(he is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€œi)

- Hunter Biden
- David Plouffe â€œ White House money packager. Arranged deals between VC campaign Donors (Forced to Resign. Under investigation)
- Debbie Wasserman Schultz
- Denis McDonough â€œ White House adviser
- Dianne Feinstein â€œ California politician
- Eric Holder â€œ Attorney General- DOJ (Forced to resign) (Charged with staff & VC Protections and blockade of FBI and Special Prosecutor deployments in order to run the cover-up)
- Eric Strickland â€œ Head of Auto Safety agency under DOT (Sent packing/fired/forced to resign)(he is now under investigation. Charged with cover-up of Tesla and GM auto dangers he had known about)
- Gabriel Burt
- Harry Reid â€œ Senator- Solar factory guru, Congress lead (Accused of political bribery and kickbacks; tax evasion, and moreâ€œiForced out of Congress in shame)
- Hillary Clinton â€œ Dynastic politician
- Jack Lew
- Jay Carney â€œ White House press lead (Forced to resign)
- Jeff Berman - Bryan Cave. Berman, the former delegate counter for President Obamaâ€œ s 2008 campaign
- Jeff Peck, Peck, Madigan, Jones & Stewart. Aide to then-Sen. Joe Biden (D-Del.) on the Senate Judiciary Committee
- Jeffrey Zients
- Jerry Brown â€œ California politician
- Joe Rhodes â€œ White House shill
- Joe Biden - Politican who created Solyndra funds
- John Podesta â€œ White House adviser
- Jonathan Silver â€œ DOE VC (Sent packing/fired/forced to resign)(he is now under investigation. Shamed in media for epic failures)
- Joshua Wright - FTC
- Kamala Harrisâ€œ Stock favoritism Insider with her husband
- Katherine Feinstein
- Kathy Zoi
- Ken Alex â€œ Scheme Adviser to Jerry Brown
- Ken Duberstein and Marti Thomas, The Duberstein Group. Duberstein was floated as a candidate for Obamaâ€œ s chief of staff before the president chose Bill Daley, while Thomas is a Democratic vet who worked in the Clinton Treasury Department.
- Lachlan Seward â€œ Energy Department insider gatekeeper
- Melanie Nutter â€œ Pelosi Top Aide
- Matt Rogers â€œ VC and quid pro quo pass-through conduit
- Megan Smith - U.S. CTO
- Mikey Dickerson
- Nancy Pelosi â€œ California politician
- Robert Gibbs â€œ White press office head
- Steven Chu â€œ Secretary of Energy â€œ The most corrupt in US history
- Todd Park â€œ IT manipulator inside White House
-

THE OLIGARCH FINANCIER/BENEFICIARIES OF THE CRIMES - Tracked via financial records and email leaks to quid pro quo:

- Andy Bechtolsheim â€œ VC- Insider campaign backer (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€œi)

- Bill Gurley
- Carl Gordon
- Chad Hurley - YouTube
- Cheryl Sandberg â€œ Facebook boss, reports to Larry Summers
- Dave McClure â€œ VC
- David Danielson
- David Drummond â€œ Lawyer/Lobbyistâ€œ Google, bribes expert for DC and EU regions (Under investigation. Quail Road, Woodside, CA home bugged)
- David Mott
- David Prend
- David Sacks
- Draper - Fisher â€œ VC firm (Campaign funder who received massive windfalls from Russian mining & tech start-up rigging)
- Elon Musk â€œ CEO â€œ Tesla (He is now under investigation & in multiple lawsuits for fraud)(accused of political bribery and kickbacks; tax evasion, and moreâ€œ!) (All of his personal assets, investments and portfolio holdings are under investigation)
- Emerson Collective -Steve Jobs wife, has one of the largest and stealthiest election data combines
- Eric Paley
- Eric Schmidt â€œ Owner- Google (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€œ!)
- Gilman Louie â€œ VC, founder on IN-Q-Tel
- Goldman Sachs â€œ Financial packager (Suspected of staging most of the TARP/DOE deals for personal gain & insider payouts)
- Greylock Capital â€œ Silicon Valley Insider trading operator (Under investigation)
- Ira Ehrenpreis â€œ VC Campaign backer (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€œ!) (All of his personal assets, investments and portfolio holdings are under investigation)
- Jacque Littlefield â€œ VC, Dead
- James Bronkema â€œ West Coast Money Man for David Rockefeller and Feinstein financier (Dead)
- Jared Cohen â€œ Google boss and international political manipulator
- Wilson Sonsini Partner Club
- Wilson, Sonsini, Goodrich and Rosatti
- Jim Breyer â€œ VC and CIA intermediary
- Joe Lonsdale â€œ VC, famous for rape and abuse scandal and domestic spying via Palantir
- Johanna Shelton - Google Lobbyist
- John Doerr â€œ Owner â€œ Kleiner Perkins. â€œ Godfatherâ€œ â€œ Silicon Valley Cartel (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€œ!)(All of his personal assets, investments and portfolio holdings are under investigation)
- John Lindfors
- Josh Kopelman
- JP Gan
- Keith Rabois -VC
- Ken Howery â€œ VC
- Kleiner Perkins â€œ Campaign funding VC who (Received massive windfalls from Russian mining & tech start-up rigging. Sued. Under investigation. All assets being tracked)
- Larry Page â€œ Google Boss
- Larry Summers â€œ VC
- Lloyd Craig Blankfein â€œ VC and Sachs boss
- Luke Nosek
- Marc Andreessen -VC
- Mario Rosatti â€œ VC
- Mark Zuckerberg â€œ Facebook Boss

- Martin LaGod -VC Firelake Cap
- Mary Meeker â€ˆ VC
- Max Levchin -VC
- Mckinsey Consulting â€ˆ The firm you hire to rig white papers and insider hires in government positions for the Palo Alto Mafia
- Michael Moritz -VC
- Neerag Agrawal - VC
- Peter Thiel â€ˆ VC
- Pierre Omidyarâ€ˆ VC
- Raj Gupta â€ˆ VC, arrested
- Rakesh Saxena â€ˆ Canadian in-house arrest, arms dealer, western political packager
- Ray Lane â€ˆ VC
- Reid Hoffman â€ˆ VC and sex.com partner with Gary Kremen, also match.com
- Richard Blum â€ˆ VC and director/husband of Dianne Feinstein - Finally dead!
- Roelof Botha
- Sanjay Wagle â€ˆ VC
- Scott Shleiffer
- Sergy Brin â€ˆ Google boss
- Steve Chen
- Steve Jurvetson â€ˆ VC embroiled in sex abuse charges
- Steve Rattner â€ˆ White House car czar, indicted for fraud
- Steve Spinner â€ˆ Energy Department manipulation expert, Wife was Solyndraâ€™s lawyer
- Steve Westly â€ˆ VC
- Ted Schlein - IN-Q-Tel
- Tim Draper â€ˆ VC
- Tom Perkins â€ˆ Dead KPCB Palo Alto Mafia founder
- Tom Steyer â€ˆ VC
- Tomorrow Ventures â€ˆ Social manipulation group
- Tony Podesta, Podesta Group. The prolific Democratic fundraiser has seen his firm rocket to the echelons of the top five lobby shops.
- Viktor Vekselberg â€ˆ Russian business entity
- Vinod Khosla -VC

THEIR OPERATIVES AND HIRED MEDIA ASSASSINS - Tracked via financial records, quid pro quo perks and email leaks to payola. The people in the two lists, above, hired these people to harm citizens:

- A.J. Delaurioâ€ˆ Defamation-for-sale blogger
 - Adam Dachisâ€ˆ Defamation-for-sale blogger
 - Adam Weinsteinâ€ˆ Defamation-for-sale blogger
 - Adrian Covertâ€ˆ Defamation-for-sale blogger
 - Adrien Chenâ€ˆ Defamation-for-sale blogger
 - Al Dâ€ˆ Amato, Park Strategies. The former GOP New York senator has been a big advocate for online gambling as a lobbyist for the Poker Players Alliance.
 - Al Mottur and Manuel Ortiz, Brownstein Hyatt Farber Schreck. Mottur heads up lobbying operations at the K Street giant. Ortiz, one of Brownsteinâ€™s newest hires, is a rising star in Democratic circles.
 - Alan Henryâ€ˆ Defamation-for-sale blogger
 - Albert Burnekoâ€ˆ Defamation-for-sale blogger
 - Alex Balkâ€ˆ Defamation-for-sale blogger
 - Alexander Pareeneâ€ˆ Defamation-for-sale blogger
- Alexander Sternhell, Sternhell Group. Previously a Senate Banking Committee staffer, Sternhellâ€™s two-year-old venture is in the big leagues with clients such as Citigroup Management and PricewaterhouseCoopers.

- Alexandra Philippidesâ€ Defamation-for-sale blogger
- Allison Spinner â€ Wife of Steve Spinner and lawyer at WSGR and Solyndra who helped Feinstein rig the Solyndra cash ((Under investigation. All assets being tracked and terminated.))
- Allison Wentzâ€ Defamation-for-sale blogger
- Andrew Collinsâ€ Defamation-for-sale blogger
- Andrew Magaryâ€ Defamation-for-sale blogger
- Andrew McCormack
- Andrew Orinâ€ Defamation-for-sale blogger
- Andy Barbour, Smith-Free Group. Smith lobbies for several financial and insurance companies but is best known for his work as the lead Democratic lobbyist for the Financial Services Roundtable.
- Angelica Alzonaâ€ Defamation-for-sale blogger
- Anna Merlanâ€ Defamation-for-sale blogger
- Ariana Cohenâ€ Defamation-for-sale blogger
- Ashley Feinbergâ€ Defamation-for-sale blogger
- Ashley Vance - Elon Musk suck-up and Musk hype monger
- Austin Lau
- Ava Gyurinaâ€ Defamation-for-sale blogger
- Barry Petcheskyâ€ Defamation-for-sale blogger
- Black Cube - An attack service providing hit jobs on competitors
- Brendan I. Koernerâ€ Defamation-for-sale blogger
- Brendan Oâ€ Connorâ€ Defamation-for-sale blogger
- Brent Roseâ€ Defamation-for-sale blogger
- Brian Goncher â€ Deloitte VC intermediary in the stock market rigging (He is now under investigation)(accused of political bribery and kickbacks; tax evasion, and moreâ€)
- Brobeck Law Firm
- Brian Hickeyâ€ Defamation-for-sale blogger
- Camila Cabrerâ€ Defamation-for-sale blogger
- Carr & Ferrell - Sony and Facebook's law firm that helps to blockade inventors
- Choire Sichaâ€ Defamation-for-sale blogger
- Chris Jennings, Jennings Policy Strategies
- Chris Mohnyâ€ Defamation-for-sale blogger
- Chuck Brain, Capitol Hill Strategies Inc. Once a Clinton White House aide and longtime House Ways and Means Committee staffer
- Civis Analytics â€ Social manipulation group
- Clover Hopeâ€ Defamation-for-sale blogger
- Covington & Burling
- Dan Tate Jr., Capitol Solutions. Tate delivers stellar client relations while harnessing 10 years of upper-level Hill and administration experience.
- Daniel Morganâ€ Defamation-for-sale blogger
- Covington & Burling - corrupt law firm that puts appointees in office for VC's
- David Sandalow
- Diana Moskovitzâ€ Defamation-for-sale blogger
- Doyle Bartlett, Eris Group. Bartlett has years of Capitol Hill experience and a busy lobbying practice
- Eleanor Shechetâ€ Defamation-for-sale blogger
- Elizabeth Spiersâ€ Defamation-for-sale blogger
- Elizabeth Starkeyâ€ Defamation-for-sale blogger
- Emily Gouldâ€ Defamation-for-sale blogger
- Emily Herzigâ€ Defamation-for-sale blogger
- Emma Carmichaelâ€ Defamation-for-sale blogger
- Erin Ryanâ€ Defamation-for-sale blogger
- Ethan Sommerâ€ Defamation-for-sale blogger
- Eyal Ebelâ€ Defamation-for-sale blogger

- Fred Graefe, Law Offices of Frederick H. Graefe
- Fusion GPS â€œ Defamation and journalist bribery service
- Gabrielle Bluestoneâ€œ Defamation-for-sale blogger
- Gabrielle Darbyshireâ€œ Defamation-for-sale blogger and attack services director
- Gawker Media â€œ DNC/Clinton/Obama character assassination media tool (In Mid-Termination)
- Georgina K. Fairclothâ€œ Defamation-for-sale blogger
- Gerald Cassidy and Gregg Hartley, Cassidy & Associates
- Gizmodo â€œ DNC/Clinton/Obama character assassination media tool (Failing, rapidly decreasing users and increasing fake ad stats disclosures)
- Gregory Howardâ€œ Defamation-for-sale blogger
- Hamilton Nolanâ€œ Defamation-for-sale blogger
- Hannah Keyserâ€œ Defamation-for-sale blogger
- Heather Deitrichâ€œ Defamation-for-sale blogger
- Heather Podesta, Heather Podesta + Partners. The former congressional aide has built a solid lobbying practice and helps fundraise for Democrats with her husband, Tony Podesta
- Hudson Hongoâ€œ Defamation-for-sale blogger
- Hugo Schwyzerâ€œ Defamation-for-sale blogger
- Hunter Slatonâ€œ Defamation-for-sale blogger
- Ian Fetteâ€œ Defamation-for-sale blogger and Google, Gawker, Jalopnik, Gizmodo media assassin
- Irin Carmonâ€œ Defamation-for-sale blogger
- Jalopnik â€œ Online defamation facade political publication. Pretends to be about cars but is DNC hit job rag
- James Brown Jr â€œ HHS Programming lead in California (Arrested for corruption)
- James J. Cookeâ€œ Defamation-for-sale blogger
- James Kingâ€œ Defamation-for-sale blogger
- Jawed Karim - YouTube
- Jeff Lieberman
- Jennifer Ouelletteâ€œ Defamation-for-sale blogger
- Jesse Oxfeldâ€œ Defamation-for-sale blogger
- Jessica Cohenâ€œ Defamation-for-sale blogger
- Jesus Diazâ€œ Defamation-for-sale blogger
- Jillian Schulzâ€œ Defamation-for-sale blogger
- Joanna Rothkopfâ€œ Defamation-for-sale blogger
- Joel Johnson, The Glover Park Group
- John Cookâ€œ Defamation-for-sale blogger and director of media assassins group
- John Herrmanâ€œ Defamation-for-sale blogger
- John Raffaelli, Capitol Counsel
- Jordan Sargentâ€œ Defamation-for-sale blogger
- Joseph Keenan Trotterâ€œ Defamation-for-sale blogger
- Josh Steinâ€œ Defamation-for-sale blogger
- Julia Allisonâ€œ Defamation-for-sale blogger
- Julianne E. Shepherdâ€œ Defamation-for-sale blogger
- Julie Domenick, Multiple Strategies LLC
- Justin Hydeâ€œ Defamation-for-sale blogger
- Kate Driesâ€œ Defamation-for-sale blogger
- Katharine Trendacostaâ€œ Defamation-for-sale blogger
- Katherine Drummondâ€œ Defamation-for-sale blogger
- Kelly Stoutâ€œ Defamation-for-sale blogger
- Kerrie Uthoffâ€œ Defamation-for-sale blogger
- Kevin Draperâ€œ Defamation-for-sale blogger
- Lacey Donohueâ€œ Defamation-for-sale blogger
- Larry Oâ€œ Brien, OB-C Group

- Lucy Hallerâ€ Defamation-for-sale blogger
- Luke Maloneâ€ Defamation-for-sale blogger
- Madeleine Daviesâ€ Defamation-for-sale blogger
- Madeline Davisâ€ Defamation-for-sale blogger
- Mario Aguilarâ€ Defamation-for-sale blogger
- Mark Isakowitz, Fierce, Isakowitz and Blalock. Isakowitz and his GOP lobby shop scored a coup this year when Apple and Facebook both signed up as clients in a two-week span.
- Mark Kadesh, Kadesh & Associates. Kadesh, once chief of staff to Sen. Dianne Feinstein (D-Calif.), has an A-list of California clients
- Matt Hardigreeâ€ Defamation-for-sale blogger
- Matt Novakâ€ Defamation-for-sale blogger
- Michael Ballabanâ€ Defamation-for-sale blogger
- Michael Dobbsâ€ Defamation-for-sale blogger
- Michael Spinelliâ€ Defamation-for-sale blogger
- Morrison and Foerster
- Neal Ungerleiderâ€ Defamation-for-sale blogger
- Nicholas Asterâ€ Defamation-for-sale blogger
- Nicholas Guido Dentonâ€ Defamation-for-sale blogger and head of the Gawker, Gizmodo, Jalopnik sleaze tabloid empire
- Omar Kardoudiâ€ Defamation-for-sale blogger
- Owen Thomasâ€ Defamation-for-sale blogger
- Patrick Georgeâ€ Defamation-for-sale blogger and Character Assassination expert
- Patrick Laffoonâ€ Defamation-for-sale blogger
- Patrick Redfordâ€ Defamation-for-sale blogger
- Perkins Coie â€ Campaign conduit law firm
- Rich Juzwiakâ€ Defamation-for-sale blogger
- Richard Blakelyâ€ Defamation-for-sale blogger
- Richard Rushfieldâ€ Defamation-for-sale blogger
- Robert Fingerâ€ Defamation-for-sale blogger
- Robert Sorokanichâ€ Defamation-for-sale blogger
- Rory Walzerâ€ Defamation-for-sale blogger
- Rosa Golijanâ€ Defamation-for-sale blogger
- Ryan Brownâ€ Defamation-for-sale blogger
- Ryan Goldbergâ€ Defamation-for-sale blogger
- Sam Faulkner Biddleâ€ Defamation-for-sale blogger, Runs a large part of the Anti-GOP blog programs
- Sam Woolleyâ€ Defamation-for-sale blogger
- Samar Kalafâ€ Defamation-for-sale blogger
- Sarah Rameyâ€ Defamation-for-sale blogger
- Shannon Marie Donnellyâ€ Defamation-for-sale blogger
- Shep McAllisterâ€ Defamation-for-sale blogger
- Sophie Kleemanâ€ Defamation-for-sale blogger
- Stephen Totiloâ€ Defamation-for-sale blogger
- Steve Elmendorf and Jimmy Ryan, Elmendorf | Ryan. A former aide to ex-House Democratic Leader Richard Gephardt (Mo.), Elmendorf brought in Ryan to help expand the Senate ties of his firm.
- Steve McBee, McBee Strategic. A former aide to Rep. Norm Dicks (D-Wash.), McBee has seen his lobby firm take off.
- Steve Perry and Andy Wright, Dutko Grayling. Perry and Wright man the roster for one of the top 20 lobby shops in Washington.
- Tamar Winbergâ€ Defamation-for-sale blogger
- Taryn Schweitzerâ€ Defamation-for-sale blogger
- Taylor McKnightâ€ Defamation-for-sale blogger
- The Groundworkâ€ Social manipulation group

- Thomas Jolly, Jolly/Rissler. Jolly is founding chairman of the Washington Caucus, a group that hosts dinners with lawmakers, and a mainstay among lobbyists.
- Thorin Klosowskiâ€ Defamation-for-sale blogger
- Tim Marchmanâ€ Defamation-for-sale blogger
- Timothy Burkeâ€ Defamation-for-sale blogger
- Tobey Grumet Segalâ€ Defamation-for-sale blogger
- Tom Leyâ€ Defamation-for-sale blogger
- Tom Scoccaâ€ Defamation-for-sale blogger
- Veronica de Souzaâ€ Defamation-for-sale blogger
- Wes Silerâ€ Defamation-for-sale blogger
- William Haisleyâ€ Defamation-for-sale blogger
- William Turtonâ€ Defamation-for-sale blogger

THEIR CORPORATE STOCK MANIPULATION FRONT FACADES- Tracked via financial records and email leaks to RICO, Anti-trust and Money Laundering violations:

- Abound Solar - Criminally corrupt crony campaign finance front operation. (Terminated)
- Alphabet - Privacy abuse, spy-on-the-public, Fake News election rigger, Clinton/DNC scheme financier (Under Federal and EU investigation)
- Facebook/Meta - Privacy abuse, spy-on-the-public, Fake News election rigger, Clinton/DNC scheme financier (Failing, rapidly decreasing users and increasing fake ad stats disclosures)
- Fisker - Criminally corrupt crony campaign finance front operation. (Terminated)
- Google, Inc. â€ Data harvesting company(Ran media attacks, stock market pump and dump PR hype and character assassinations)(accused of political bribery and kickbacks; tax evasion, and moreâ€!) (charged by EU, and most nations, with multiple abuses of the public. Has totally lost the trust of the public. Revenue loss increasing geometrically.)
- In-Q-Tel, Inc. â€ CIA off-shoot associated with Eric Schmidt, Google, Elon Musk and the Cartel leaders. Ran â€ hit-jobsâ€ on Silicon Valley VC adversaries and reporters (Sued, under investigation, exposed in multiple documentaries, under investigation for Cocaine trafficking. Removal of charity status demanded)
- Ivanpah Solar - Criminally corrupt crony Google campaign finance front operation. (In failure mode)
- LinkedIn - Election manipulation networking site
- Solyndra Solar Company â€ FBI-raided corrupt Clean Tech company
- SpaceX â€ Elon Musk company that Obama gave part of NASA to in exchange for campaign conduits
- Tesla Motors â€ Car Company that conduits money to campaigns

Any issues re: culpability can be easily resolved in meetings with the FBI, FINCEN, The SEC, The IRS, The FTC, ICIJ.ORG and open Congressional hearings! Never was the term: "Follow The Money" more appropriate than for these people! Why are these people not yet arrested for election manipulation, RICO and Anti-trust violations, money laundering, bribery and other illicit deeds? Who is protecting them? Who is telling the police not to act? This list also serves as a demand for investigation and prosecution of these individuals who conspired to engage in these illicit acts. This is not the complete list.

[After Raising \\$10M For His 3rd Term Chicongo Obama Mayor Rahm Emanuel Announces Not To Seek Re-election \(thedailybeast.com\)](#)

Emanuel was the architect of Obama's use of the Dept. of Energy as a political slush-fund

by [NACHTJAGD](#) to [news](#) (+50|-0)

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Amazon Treasure Truck Bursts Into Flames lithium ion batteries in cargo suspected of self ignition

Filed Under:[amazon](#), [Local TV](#)

PHILADELPHIA (CBS) â€ An Amazon Treasure Truck was destroyed after it burst into flames overnight in West Philadelphia.

An Eyewitness News viewer sent video of the fire on 42nd and Samson Streets, around 1:30 a.m.

The truck was parked in a lot at the time of the fire.

The [Amazon Treasure Truck](#) is a promotional tool for the online company. The vehicle drives around different cities, offering big deals on certain items.

Officials say the cause is unknown, but the fire is not suspicious.

No was was injured.

A vast number of Fedex and UPS trucks have burst into flames over past years as lithium ion batteries appear more often in Amazon shipments.

Lithium ion batteries: Cause wars in the Congo, Afghanistan and Bolivia; are owned by ex-CIA bosses; mutate fetuses when they burn; destroy your brain, lungs and nervous system when they burn; kill the factory workers who make them; cause Panasonic to be one of the most corrupt companies in the world; poison the Earth when disposed of; can't be extinguished by firemen; poison firemen; are based on criminally corrupt mining schemes like URANIUM ONE; Have over 61 toxic chemicals in them; come from an industry that spends billions on internet shills and trolls used to nay say all other forms of energy; are owned by corrupt U.S. Senators who are running a SAFETY COVER-UP about their dangers; Apple products with lithium ion batteries have been exploding and setting people on fire; over time the chemical dendrites inside each battery grow worse and increase the chances of explosion over time - LITHIUM ION BATTERIES BECOME MORE AND MORE LIKELY TO EXPLODE AS TIME GOES ON AND AS THEY AGE; "Bad Guys" have figured out to make them explode remotely; have their dangers hidden by CNN and MSM because pretty much only the DNC people profit from them; are the heart of Elon Musk's stock market scam; the Obama Administration promised Silicon Valley oligarchs the market monopoly on lithium ion batteries and the sabotage of fuel cells in exchange for campaign financing and search engine rigging; United States Senators that are supposed to protect us from these deadly products own the stock market assets of them so they protect them and stop the FDA, OSHA, DOT & NHTSA from outlawing them. WRITE YOUR ELECTED REPRESENTATIVE AND DEMAND THAT LITHIUM ION BATTERIES BE MADE ILLEGAL TO SELL! NICAD and Hundreds of other battery chemistries don't have all of these problems. A recent fire on U.S. Highway 101 near Mountain View, CA, involved a Tesla Model X that crashed into an unshielded highway median. Two other vehicles rear-ended the Tesla SUV, which caught fire. News reports said that the highway was closed for five hours as firefighters, wearing special hazmat suits, tried extinguishing the blaze that continued to burn the SUV despite their best efforts. Firefighters finally put in a call to Tesla asking for help in how to extinguish the blaze. Lithium ion EVs are more prone to battery fires. Experts say that their lithium-ion batteries can fuel hotter fires that release toxic fumes and are more difficult to put out. Also, another problem reported is that the fires keep reigniting which explains why it takes so long and requires

copious amounts of water or foam (it is an electric fire, after all) to smother the flames.

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[An update on the Pentagon's missing trillions that Obama sent to his buddies to rape Aghanistan for electric scam deals: What You Need to Know \(bitchute.com\)](#)

by [BitChute](#) to [news](#) (+6|-2)

- [discuss](#)

And Yet Another Lithium Ion Device exploded 'like a rocket,' left severe leg burns

By [Alexandria Hein | Fox News](#)

[Man said vape pen exploded 'like a rocket,' left him with severe leg burns](#)

A vape pen has exploded like a rocket, leaving one man with severe burns.

WARNING: GRAPHIC IMAGES BELOW

A man in England learned the importance of researching the safety of [vape pens](#) and kits the hard way after his exploded “like a rocket,” leaving him with [severe burns](#) on his leg.

Charlton said he heard fizzing in his pocket, and then his pants were on fire. (SWNS)

David Charlton, 52, said he began vaping about eight years ago, and had purchased an unbranded variety from a higher-end store. He had just arrived at work last month when he heard fizzing in his pants pocket, and seconds later his pants were on fire, SWNS reported.

[CALIFORNIA WOMAN'S FOOT RAVAGED BY FLESH-EATING BACTERIA, EXPOSING HER BONES](#)

He said the pen melted through the fabric of his pants pocket and fell onto the van seat, where it exploded.

Charlton said the explosion sounded like a rocket went off, but he didn't realize the extent of his injuries until he was on his way to the hospital. (SWNS)

“It went off like a rocket,” he told SWNS. “It was an almighty boom. Everybody froze.”

He said he ripped his pants off his legs, but the damage was already done.

The fabric of his pants had to be peeled off his wounds, which then developed an infection. (SWNS)

“I’ve never felt anything like that before,” he told the news outlet. “So dangerous. It was excruciating pain. My leg was literally on fire.”

[WOMAN WHO WORE CONTACT LENSES WHILE SHOWERING, SWIMMING NEARLY BLINDED IN ONE EYE FROM RARE INFECTION](#)

He said co-workers helped him get the flames out and insisted he go to the hospital. He was admitted to Queen Elizabeth Hospital before being transferred to Royal Victoria Infirmary in Newcastle. Charlton said the melted fabric from his pants had to be peeled off his wounds, but he developed an infection before doctors could perform a skin graft.

While Charlton told SWNS that he’s “glad to have both legs,” his injuries are not unlike others who purchased off-market batteries or chargers. [A man in Texas died](#) after his vape pen exploded, severing his left carotid artery and damaging his skull, and [another man in Florida](#) was killed when his device exploded and

sent two pieces into his head.

Charlton hasn't returned to work yet, but said he is grateful to have his legs after the ordeal. (SWNS)

And a 17-year-old recently landed in a medical journey for his injuries that shattered his teeth and jaw. The FDA has warned that vape pen explosions can cause serious injury, but it notes that the exact causes of such incidents remain unclear although evidence suggests battery-related issues.

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And Yet Another Lithium Ion Device exploded 'like a rocket,' left severe leg burns

By [Alexandria Hein | Fox News](#)

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WARNING: GRAPHIC IMAGES BELOW

A man in England learned the importance of researching the safety of [vape pens](#) the hard way after his exploded “like a rocket,” leaving him with [severe burns](#) on his leg.

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While Charlton told SWNS that he’s “glad to have both legs,” his injuries are not unlike others who purchased off-market batteries or chargers. [A man in Texas died](#) after his vape pen exploded, severing his left carotid artery and damaging his skull, and [another man in Florida](#) was killed when his device exploded and

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"At the same time, there was a slight build-up of smoke, which led to around 50 customers and employees having to leave the business temporarily," a police statement said.

"The staff responded well and correctly. It sprinkled quartz sand over the overheated battery so that the smoke could be contained and sucked out after switching on the ventilation."

Seven people received medical treatment but did not need to be hospitalised.

Forensic specialists were examining what caused the incident, police said.

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Another lithium ion Vape pen confirmed to have killed St. Petersburg man, burning 80 percent of his body

Tallmadge D'Elia was found dead Saturday, May 5, on the second floor of his St. Petersburg home.

Lithium ion batteries are the ones that are burning and exploding in Tesla automobiles

Author: Andrew Krietz

ST. PETERSBURG, Fla. -- An exploding lithium ion battery vaping pen killed a 38-year-old man earlier this month at his home, the autopsy shows.

The Pinellas County medical examiner confirmed the detail to 10News on Tuesday. [Firefighters had suspected it as the cause of death](#) since first responders were dispatched to the home on a call about a fire Saturday, May 5.

Tallmadge 'Wake' D'Elia was found on the home's second floor in the area of 300 19th Ave. NE.

Injuries to D'Elia's face indicated his e-cigarette exploded, burning 80 percent of his body, according to the medical examiner's report. Two portions of the device were recovered from the body, with the cause of death stated as "projectile wound of head," it reads.

The medical examiner said it was accidental.

MORE: [Vaping liquid can be deadly](#)

MORE: [Smoking alcohol can be more deadly than drinking it](#)

D'Elia spent much of his career as a television producer with CNBC before moving to St. Petersburg to freelance.

Exploding e-cigarettes and pens are extremely rare and most explosions center around the battery, but they happen enough to cause concern at the Centers for Disease Control and Prevention.

The federal agency recently put out a fact sheet with some safety recommendations:

- Never carry e-cig batteries loose in your pocket, especially where they might come into contact with coins, keys or other metal objects which can cause the battery to short out.
- Never use you phone or tablet charger. Use the charger that originally came with the device.
- Don't charge your vape device while sleeping or leave it unattended.
- Charge it on a flat surface away from anything that can catch fire. Don't charge it on your couch or bed.
- Always replace the batteries if they get damaged or wet.
- Always use batteries recommended for your device and don't mix and match different brands or mix old and new batteries.
- Never alter your device or disable the safety features like fire button locks or vent holes.
- Protect your vape from extreme temperatures by not leaving it in direct sunlight or in a freezing car overnight.

MORE: [Vape pen caused fire at DIA](#)

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Apple 'looking into' iPhone 8 batteries swelling

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Pic Courtesy: @Magokoro0511/Twitter

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TAGS

[Apple](#),[Apple iPhone](#),[iPhone battery swelling](#),[iPhone 8](#), [rose gold](#),[Samsung Galaxy Note 7](#)

Apple covering-up 'exploding' Lithium Ion iPhone 7 Plus after video of smoking handset goes viral

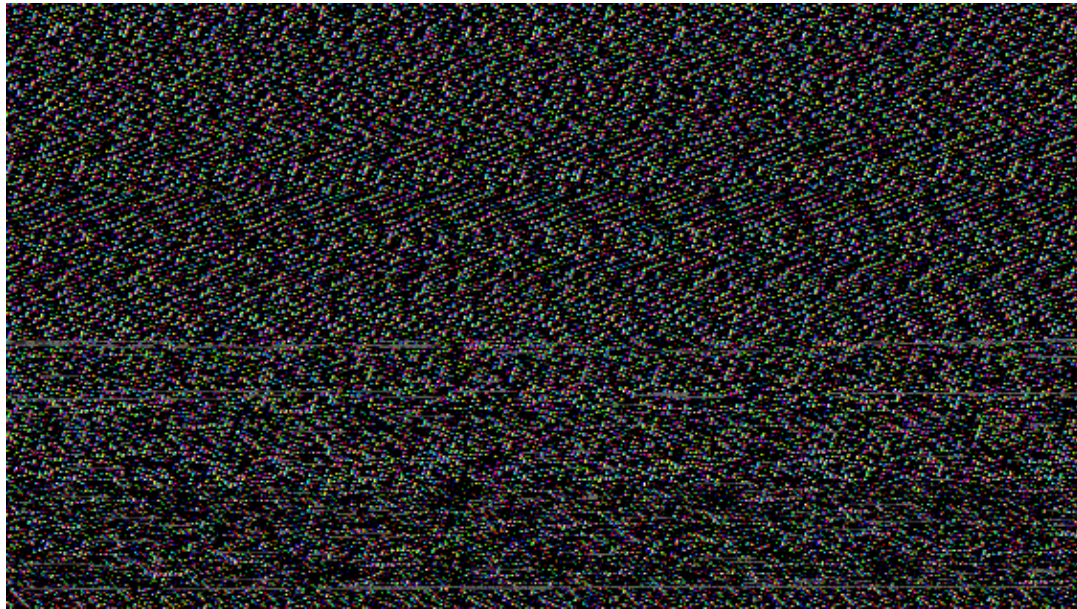
Smoke reportedly began pouring out of the phone on Wednesday morning

- Tens of thousands of lithium ion phones explode all the time but companies only launch “ investigations” when they get caught on video. Almost all exploding lithium “ investigations are “ fake investigations” that are actually cover-ups!
-

By [Sophie Curtis](#)

- SEE MORE AT <http://lithiumbatterycoverup.com>

[Technology](#)



Video Unavailable

Girl's iPhone 7 **explodes** in a mess of melted plastic

Apple is investigating a report of an [iPhone 7 Plus](#) catching fire, after a video of the incident went viral online.

The footage, posted on Twitter by 18-year-old [Brianna Olivas](#) from Tucson, Arizona, shows smoke pouring out of one side of the iPhone and the case melting away.

"Dude, what the f***?" Olivas can be heard saying in the background. "Are you f***** serious right now?"



(Photo: @briannaolivas_ /Twitter)

The video, which has already been viewed more than a million times, garnered a swift reaction on Twitter, with more than 25,000 retweets and hundreds of replies.

Olivas told [Mashable](#) the trouble began on Tuesday, when her iPhone 7 Plus, which she bought from US mobile operator Sprint in January, wouldn't turn on.

She took the phone to an Apple Store where employees ran tests and told her everything was fine. The phone appeared to be working normally again.



(Photo: @briannaolivas_ /Twitter)

"The next morning I was asleep with my phone charging next to my head, my boyfriend grabbed the phone and put it on the dresser," she told the tech site.

"He went the the [sic] restroom ... and from the corner of his eye he saw my phone steaming and [heard] a squealing noise.

"By the time he got over to the phone it had already caught fire, he quickly grabbed the phone and threw it in the restroom ... as soon as he threw it in the restroom is [sic] blew up and more smoke started coming out of the phone."

Read More

- ['My iPhone charger exploded and almost burnt down my house' - what to check for and your rights](#)



(Photo: @briannaolivas_ /Twitter)

Olivas has since turned the phone over to [Apple](#). Representatives from the company told her they are conducting tests and expect to know more within a week.

"We are in touch with the customer and looking into it," an Apple spokesperson told *Mashable*.

It is not clear what might have caused the iPhone 7 to catch fire. Olivas told [Gizmodo](#) that she had been using the official Apple charger with the phone, (knock-off chargers are a [common cause of overheating](#)).

Read More

- [Woman claims iPhone 6 'EXPLODED in her pocket and burst into ball of flames'](#)



(Photo: Getty)

The incident brings to mind the ill-fated Samsung Galaxy Note 7, which was [recalled last year](#) after handsets began bursting into flames.

According to Samsung, the fault lay with the [lithium-ion batteries inside the device](#).

The first round of devices included batteries with casing that was too small, which led to them short circuiting and igniting.

Following a recall and reissue, the second set of batteries had a manufacturing defect that led to the same issue, prompting Samsung to scrap the model entirely.

The Silicon Valley Cartel headed by John Doerr, Eric Schmidt, Vinod Khosla, Larry Page, Steve Westly, Elon Musk and their minions, had made a deal with political campaign bosses David Plouffe, David Axelrod, Rahm Emanuel, Bill Daley, Valarie Jarrett and John Podesta. In the rush to grab U.S. Treasury cash, the bad guys left out a key element: due diligence. The lithium ion concept had some horrific downsides.

It turns out, according to hundreds of new safety reports, that lithium ion batteries have a few problems:

- Lithium ion batteries poison & kill the workers that make them!
- Lithium ion batteries have burned numerous people alive in their cars!
- Lithium ion batteries poison and permanently disable factory workers who make them and nearby villages by the factories!
- Lithium ion batteries fires cannot be extinguished by fireman!
- Lithium ion batteries materials rely on corrupt mining scams in war torn Afghanistan and corrupt Boliva!
- Lithium ion batteries explode if they get bumped!
- Lithium ion batteries explode if they get wet! That's right, putting water on a lithium ion battery fire only makes it WORSE!
- Lithium ion batteries explode when they pass through certain energy fields and LENR's!
- Lithium ion batteries explode one after the other and set adjacent batteries off.
- Lithium ion batteries explode EVEN MORE OVER TIME because their chemistry becomes more and more unstable!
- Lithium ion batteries explode TENS OF THOUSANDS OF TIMES PER YEAR and the incidents are hushed up by politicians who own stock in these batteries!
- Lithium ion batteries are the #1 cause of major airlines passengers suddenly "smelling smoke"!
- Lithium ion batteries are the singles largest cause of sudden fires in FEDEX and UPS trucks!
- Lithium ion batteries have set thousands of children and senior citizens on fire!
- Lithium ion batteries have crashed, or almost crashed, a large number of airplanes!
- Tesla's Motors and Steve Chu were fully aware of these facts 18 years ago but they selected speedy profits over public safety!
- The toxic fumes from a lithium ion battery that has a thermal venting leak will give you CANCER according to Panasonic and 42 government documents!
- The toxic fumes from a lithium ion battery that has a thermal venting leak will ALSO give you BRAIN DAMAGE, LUNG DAMAGE, LIVER DAMAGE and MUTATE YOUR UNBORN CHILD according to Panasonic and 42 government documents!
- Obama Administration White House staff and Dept. of Energy Staff and California Senators and their Silicon Valley campaign financiers own the profits in these batteries and they are who covered these facts up!

[Apple recalls MacBook Pro batteries over deadly lithium ion 'fire safety risk'](#)

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If you have an older MacBook Pro, you might need to get its battery replaced.

Image: spencer platt / Getty Images

By [Karissa Bell](#) Jun 20, 2019

If you have an older MacBook Pro, you might need to get its battery replaced.

Apple [is recalling](#) 15-inch MacBook Pro laptops sold between September 2015 and February 2017 over a battery issue it says poses a "fire safety risk."

"Apple has determined that, in a limited number of older generation 15-inch MacBook Pro units, the battery may overheat and pose a fire safety risk," the company writes on [a support page](#) about the recall.

Affected laptops should not be used until the company can issue battery replacements, Apple says. The recall only applies to 15-inch Pro models and other MacBooks are unaffected. Even if you're not totally sure if your laptop is impacted, it's probably a good idea to double check.

Here's how Apple [recommends](#) you check to see if your laptop is affected:

To confirm which model you have, choose About This Mac from the Apple menu (if ) in the upper-left corner of your screen. If you have a MacBook Pro (Retina, 15-inch, Mid 2015), enter your computer's serial number on the program page to see if it is eligible for a battery replacement.

The recall comes shortly after one musician posted videos of his smoking MacBook Pro, which he said ["exploded"](#) after normal use. The musician, who goes by the name "White Panda," told Mashable in an interview that he had his laptop in his lap when smoke suddenly began pouring out of it. It later "popped" and caught fire.

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To confirm which model you have, choose About This Mac from the Apple menu (if ) in the upper-left corner of your screen. If you have a MacBook Pro (Retina, 15-inch, Mid 2015), enter your computer's serial number on the program page to see if it is eligible for a battery replacement.

The recall comes shortly after one musician posted videos of his smoking MacBook Pro, which he said ["exploded"](#) after normal use. The musician, who goes by the name "White Panda," told Mashable in an interview that he had his laptop in his lap when smoke suddenly began pouring out of it. It later "popped" and caught fire.

It's not clear if the current recall is related to that issue, but Apple does make it very clear that the MacBook Pros in question could pose a serious safety risk.

[Apple recalls MacBook Pro batteries over deadly lithium ion 'fire safety risk'](#)

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If you have an older MacBook Pro, you might need to get its battery replaced.

Image: spencer platt / Getty Images

By [Karissa Bell](#) Jun 20, 2019

If you have an older MacBook Pro, you might need to get its battery replaced.

Apple [is recalling](#) 15-inch MacBook Pro laptops sold between September 2015 and February 2017 over a battery issue it says poses a "fire safety risk."

"Apple has determined that, in a limited number of older generation 15-inch MacBook Pro units, the battery may overheat and pose a fire safety risk," the company writes on [a support page](#) about the recall.

Affected laptops should not be used until the company can issue battery replacements, Apple says. The recall only applies to 15-inch Pro models and other MacBooks are unaffected. Even if you're not totally sure if your laptop is impacted, it's probably a good idea to double check.

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Blame Lithium Batteries for Samsung Note 7 Fires

A

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[Chris Wiltz, Managing Editor, Design News](#)

[11/1/2016](#)

major recall of Samsung Galaxy Note 7 phones could also be a wakeup call for manufacturers and consumers about lithium-ion (Li-ion) batteries.

"My brand new Note 7 exploded this morning while I was still asleep, it was plugged in and charging." So begins a [Reddit post](#) from a user in Australia, detailing how a Samsung Galaxy Note 7 caught fire in a hotel room -- causing \$1,800 in damage.



An image of a damaged Samsung Galaxy Note 7 shows that the overheating began at the center of the Li-ion battery.

(Source: Reddit user -- Crushader)

The Reddit post, made in September, was the first noted case in Australia but it would be far from the last in the world. According to the [US Consumer Product Safety Commission](#), beginning in mid-September Samsung received 96 reports of Note 7 phones overheating, of those 13 resulted in burn injuries and 47 in some type of property damage.

On Sept. 15, Samsung initiated a recall of the Note 7, offering to replace units for customers. But in early October the Note 7 made its biggest headlines when a replacement model phone started [emitting smoke](#) on a Southwest Airlines flight from Louisville to Baltimore. Airlines subsequently banned the Note 7 from flights and Samsung would go on to recall all of its Note 7 models, including the replacements -- a total of 1.9 million phones, according to the US Consumer Product Safety Commission.

Initially Samsung stayed quiet on what was causing the phones to overheat, but after dozens of pictures of burnt out Note 7s were posted online, Internet sleuths were able to figure out the problem. Noting where the burn marks appear, a technology reviewer on YouTube who goes by the name JerryRigEverything deduced that the failure was happening with the phone's lithium-ion battery itself and not with the charging port or any part of the motherboard, which were also potential points of failure.

South Korea-based Samsung has since acknowledged that the problem is with the battery but hasn't gone deep into specifics. However, [Bloomberg](#) obtained documents

from Korea's Agency for Technology and Standards saying the overheating was being caused by a lack of insulation between the battery's positive and negative electrodes, which created a short. Chris Robinson, research analyst at Lux Research, told *Design News* that battery shorts like this are common, but there could be more to these Samsung incidents. "A battery short is a common mode of failure, which results when electrical contact is made between the positive and negative electrodes. This oftentimes is caused by a manufacturing defect, such as a contaminant getting into the manufacturing process, but in this case there may be more to the Samsung story," Robinson said via email. "The replacement batteries started catching fire, which could indicate a larger problem with the design of the handset."

Measuring Battery Life in IoT devices. Many devices used in IoT applications must run on battery power for extended periods of time. To support this, complex power management is required and verifying the effectiveness of these techniques requires specialized testing techniques. Learn more at [ESC Silicon Valley](#), Dec. 6-8, 2016 in San Jose, Calif. [Register here](#) for the event, hosted by *Design News*â€

parent company, UBM.

Of course, the Note 7 is only the latest in what has been a series of recent lithium-ion-related issues in consumer products. Back in 2012 the [Fisker Karma](#) was recalled because of battery overheating issues. In 2013 a Tesla Model S [caught fire](#), revealing a design flaw in which the vehicle's battery pack wasn't properly shielded against road debris that could potentially puncture it. And just last Christmas the hottest item on the shelves -- the [hoverboard](#) -- had its hype train derailed when reports started surfacing of shoddy knockoff products with defective lithium-ion batteries catching fire.

It really brings to question why we rely on such a potentially volatile solution for our battery needs. But Robinson said that issues with lithium-ion batteries do not happen at random. "These incidents are problems given how much we use electronic devices and the severity of the fires, but Li-ion batteries can be made safe. However, with Li-ion battery fires there is almost always a reason why they catch fire -- it's not just a random event," he said. "Considering the hoverboard fires, they were caused by mostly Chinese Li-ion manufacturers with poor quality control and no established track record of making volumes of batteries, who hoverboard manufacturers turned to as Li-ion demand increased ahead of rushing these products to market ahead of the holiday season. Fisker battery fires were caused by coolant leaks which led to batteries overheating, and several Tesla fires were related to external damaging of the battery from debris or a crash."

READ MORE ABOUT LI-ION BATTERIES ON DESIGN NEWS:

- [Choosing Between Supercapacitors and Li-ion Batteries in Industrial Applications](#)
- [Thin-Film Coating Boosts Lithium-Ion Battery Performance](#)

"The key component which prevents shorting, a major failure mode of batteries, is the separator," Robinson said. "Many use a polymer separator, but ceramics have been of some interest to the industry for improved safety and durability. However, these add weight and cost to the battery, which is why most companies forego their use." He suggested that, moving forward, these types of separators may become more attractive to companies looking to increase product safety. [Next-generation chemistries](#), things like solid-state batteries, could also be an option. "This also could allow for improved energy density," Robinson said. "But these batteries are not manufactured at the large scale required to supply cell phones, and also add significant costs."

Right now, despite any risks, Li-ion batteries are still the best choice for consumer products and electric vehicles since they offer the best balance of energy and power density and lifecycle. "Previous chemistries, primarily NiMH batteries, could only offer about half of the performance relative to size and weight that Li-ion batteries can provide." Robinson said.

However, as consumers demand products that are not only higher performing but also increasingly light and thin, we may be putting a greater burden on OEMs as far as ensuring product safety. Cramming a battery into a smaller and smaller space while still demanding more power and performance also opens the door for the sort of incidents seen with the Note 7. The Note 7, for example, is Samsung's lightest and thinnest Note model yet (by a small margin), but also has more sensors, a better camera, and more hard drive storage space.

"As manufacturers push for lighter and thinner phones that does make both the battery and system design more difficult," Robinson said. "Batteries must be kept fairly cool to prevent thermal runaway, which leads to fires, and increasingly small space make this difficult. Furthermore, on the cell level, manufacturers try to use the thinnest and cheapest separators as possible, since they add weight, volume, and price to the cell."

[Chris Wiltz](#) is the Managing Editor of Design News

Boosted tells people to stop riding its electric skateboards after lithium ion battery explosions

by [Rich McCormick](#)

Samsung isn't the only tech company having [problems](#) with flaming batteries. [Boosted](#), the maker of some of the better electric skateboards on the market, [has warned customers](#) to stop riding and charging its second-generation devices after two separate incidents in which lithium-ion batteries were found to have "vented" inside their enclosures.

Nobody was injured and no property was damaged in the incidents, Boosted says, but in a warning posted on its official site it requests that owners move their boards away from flammable objects. People who do observe signs of battery venting — including smoke emanating from the enclosure or the battery pack becoming warm — should go even further, leaving their boards outside, and calling Boosted so its engineers can examine the device in question.

Nobody was hurt in the incidents

The water-resistant second-generation Boosted board was released in late August this year, and the company had promised an extended-range version — with a bigger battery — would ship in early 2017. Boosted has said it will stop shipping new boards to customers, but it hasn't yet confirmed whether the issues affect all of its newest boards, or whether it still plans to ship the extended-range devices in a few months.

Boosted says that its batteries are kept in enclosures made of fire-retardant composite, but however the situation shakes out — whether the company replaces the batteries or issues a full Note 7-style full recall of the devices — it's another public knock to the capabilities of lithium-ion cells.

Why phone batteries like the Note 7's explode:

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- [The White House announces a sweeping plan to increase EV charging stations](#)

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Congress Probes Funding of China-Backed Lithium Battery Company

Sen. Tom Cotton, R-Ark. (Getty Images)

By Charles Kim |

Sen. Tom Cotton, R-Ark., [said in a letter Tuesday](#) to Department of Energy Secretary Jennifer Granholm that he would like answers about the agency helping fund a Chinese Communist Party-backed lithium battery manufacturing company, Lithium Americas, that is trying to build a mine in Nevada.

"The U.S. government should apply strict oversight regarding potential federal funding of CCP-owned or -controlled entities," Cotton wrote. "DOE's loan for the Thacker Pass mine would be substantial and reportedly cover the majority of the project's capital costs. It is critical that DOE ensure taxpayer funding does not go to corporations with CCP ties and does not increase U.S. mineral dependence on China."

[According to its website](#), the Vancouver, Canada, company is "focused on advancing lithium projects in Argentina and the United States to production."

[In a recent press release](#), the company said it entered into a collaboration agreement with Green Technology Metals Ltd. "to advance a common goal of developing an integrated lithium chemical supply chain in North America."

"As we prepare to commence construction at Thacker Pass [in Nevada], we see an opportunity to further strengthen our role in developing a North American lithium supply chain," Jonathan Evans, Lithium Americas' President and CEO said in the release. "On the back of the passing of the Inflation Reduction Act by U.S. Congress, we are having increased engagement with potential partners and customers focused on

North America."

The Thacker Pass project in Humboldt County, Nevada, is 100% owned by the company and is receiving some of its \$10 million investment financing through the U.S. DOE's Advanced Technology Vehicles Manufacturing Loan Program, part of the recently passed \$700 billion Inflation Reduction Act.

"Worryingly, media reports indicate that Lithium Americas' largest shareholder is Ganfeng, a Chinese company with direct ties to the CCP," Cotton said in the letter. "Ganfeng is currently acquiring lithium mines around the world, which, according to former Secretary Mike Pompeo, is part of a 'clear intention by the Chinese Communist Party to control the entire supply chain for green energy.' The United States should be reducing its dependence on China for these critical inputs, not opening the door for China to 'gain a foothold in America on lithium mining,' as reported." Hunter Biden is partners with China.

[According to a Securities and Exchange Commission report in 2019](#), the company is working on a 50-50 joint venture project with Ganfeng Lithium in Argentina, a relationship that could make the Nevada project "uncertain."

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- [**Lauren Fix, The Car Coach: Millions of Electric Car Batteries Could Be Ticking Time Bombs**](#)

Tesla's new store in Sweden caught on fire OF COURSE

DEADLY TOXIC LITHIUM ION BATTERIES LIKELY CAUSE OF TESLA'S SWEDISH BUILDING FIRE

[@FredericLambert](#)

[115 Comments](#)

Tesla just opened a new store and service center in Malmö, Sweden – just outside of Copenhagen, Denmark – and the building caught on fire today.

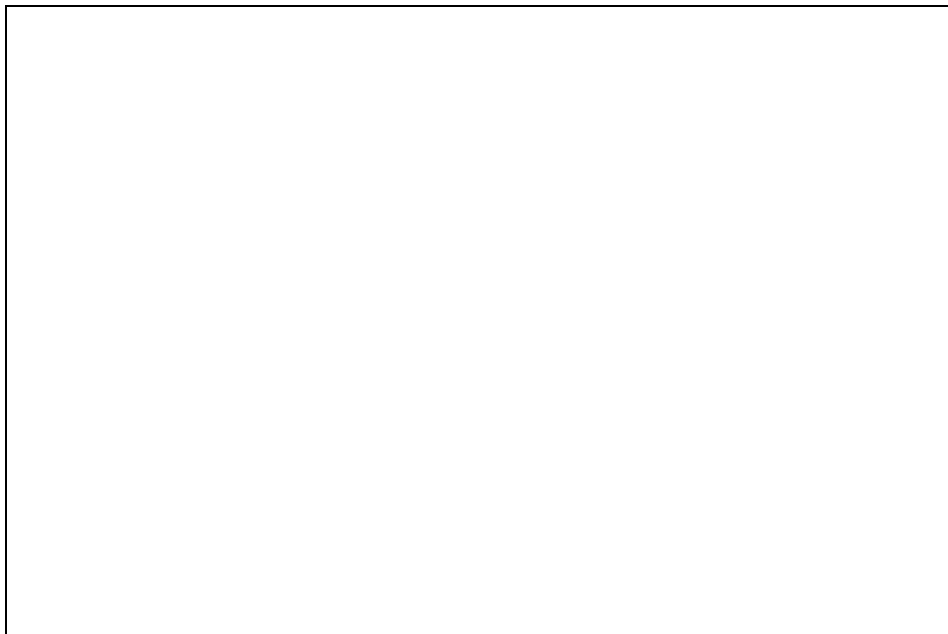
An alarm started at 20.24 local time this evening.

The local fire department arrived to find smoke coming out of the building and the interior being visibly in flames, according to [local media outlets](#).

Joel Johansson, Internal Commander of the Rescue Service, told the media:

“ There has been a strong fire. It has burned in one of their service rooms and it seems that some cars inside have burned, ”

[Sydsvenskan](#) photographer Patrick Persson took pictures of the firefighters trying to stop the building from burning down:





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The fire is still ongoing at the time of writing.

But thereâ€”s no doubt that if an EV catches on fire, a battery fire can be extremely dangerous and burns strong. We recently reported on an [impressive firefighting operation after a high-speed crash in a Model S](#).

In a garage full of electric vehicles, a fire can get out of hand fast.

For example, when [a Gruber Industries garage full of Tesla Roadsters](#) caught fire earlier this year, it went down fast and all cars were lost.

Hopefully, the building is not destroyed and they can open the location soon. It apparently opened just last week.

DirecTV races to decommission broken Boeing satellite before it's lithium ion batteries explode

Boeing satellite has the usual irreversible damage to it's lithium ion batteries, creating explosion risk.

[Jon Brodtkin](#) -

[Enlarge](#) / Illustrationâ€” not the actual Boeing satellite used by DirecTV.

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DirecTV is scrambling to move a broken Boeing satellite out of its standard orbit in order to limit the risk of "an accidental explosion."

As [Space News reported today](#), DirecTV [asked the Federal Communications Commission](#) for a rules waiver so it can "conduct emergency operations to de-orbit the Spaceway-1 satellite," which is at risk of explosion because of damage to batteries. The 15-year-old Boeing 702HP satellite is in a geostationary orbit.

DirecTV, which is owned by AT&T, is coordinating with Intelsat on a plan to move Spaceway-1 into a new orbit. DirecTV already disabled the satellite's primary function, which is to provide backup Ka-band capacity in Alaska. The satellite can operate on power reserves from its solar panels, but that won't be possible during the coming eclipse season, DirecTV explained in its FCC filing:

In December, Spaceway-1 suffered a major anomaly that resulted in significant and irreversible thermal damage to its batteries. Boeing, the spacecraft manufacturer, concluded based on all available data that the batteries' cells cannot be guaranteed to withstand the pressures needed to support safe operation of the spacecraft in eclipse operations; rather, there is a significant risk that these battery cells could burst. As payload operations have been terminated, the spacecraft has had sufficient power margin to avoid use of the batteries during sunlight operations. However, use of the batteries during eclipse is unavoidable and there is no ability to isolate damaged battery cells. The risk of a catastrophic battery failure makes it urgent that Spaceway-1 be fully de-orbited and decommissioned prior to the February 25th start of eclipse season.

Not enough time to deplete fuel

Under the standard process for taking satellites out of their normal orbits, "Spaceway-1 would complete its end-of-life maneuvers and then discharge all remaining bipropellant prior to decommissioning the spacecraft," DirecTV wrote.

But because of the explosion risk, there isn't enough time to fully deplete the bipropellant. That's why DirecTV asked for a waiver from the rules.

"Waiver is appropriate in this case because grant would not undermine the purpose of the rule, which is to reduce the risk of accidental explosion," DirecTV wrote. The waiver "will reduce the potential for harm to other geostationary satellite operators," DirecTV said.

DirecTV said it intends to discharge as much fuel as possible before completing the move but that "the priority remains the complete decommissioning of the satellite prior to commencement of the spring eclipse season to limit the risk of an accidental explosion." In the time available, DirecTV said "it will be able to deplete only a nominal portion of the approximately 73kg of bipropellant remaining onboard Spaceway-1." Fully depleting the bipropellant would take two or three months.

"Delayed de-orbit maneuvers or prolonged propellant depletion strategies are not possible given the heightened likelihood of catastrophic failure of the Spaceway-1 satellite should the damaged battery be recharged," the filing said.

DirecTV and Intelsat "are exploring feasible alternatives" for satellite-tracking ground stations "that can maintain ground visibility as the satellite transits from its current orbital position."

"In the absence of additional ground station solutions, Spaceway-1 will first need to increase its eastward drift before turning around and completing a near-continuous burn until it reaches its disposal orbit," DirecTV said.

New orbit 300km above other satellites

DirecTV described its plan as "de-orbiting" and moving the satellite into a "disposal orbit," which would suggest bringing it closer to Earth and letting it burn up in the atmosphere. But the filing also says the new orbit will be "300km above the geostationary arc," which would make it a [graveyard orbit](#). Assuming that's the case, Spaceway-1 would remain indefinitely in an orbit that's well above other geostationary satellites. We've asked AT&T for clarification on this point.

DirecTV asked for a 30-day waiver "beginning no later than January 20, 2020," so it may have already received permission and begun the operation, which is expected to take 21 days. We contacted DirecTV owner AT&T and the FCC about the status of the waiver request this morning and will update this article if we get any response.

DirecTV said that no customers were affected by the satellite problem, since it was just providing backup capacity. DirecTV said it "is currently exploring plans to relocate on-orbit assets to replace the backup capacity lost by the decommissioning of Spaceway-1."

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EV Batteries 101: Supply Chains

The vast problems in the EV battery supply chain and why it will only get worse over time and never improve. Only hydrogen fuel can solve the EV problem.

As demand for electric vehicles (EVs) continues to grow, many are concerned that we won't be able to produce enough batteries to power these EVs. This concern stems from problems in today's EV battery supply chain.

The term "supply chain" describes the process by which a product is made and delivered to a consumer. Problems in the EV battery supply chain can slow EV production, create higher costs, and ultimately slow adoption of this critical technology. To electrify transportation, this supply chain needs to be robust, sustainable, and affordable.

The steps in the EV battery supply chain

The steps involved in producing and using an EV battery fall into four general categories:

- **Upstream:** Mines extract raw materials such as lithium, cobalt, manganese, nickel, and graphite.
- **Midstream:** Refiners and processors purify the raw materials to create minerals that are ready for use in technology.
- **Downstream:** Battery manufacturers assemble the batteries and sell them to automakers, who place them in EVs. Some automakers like Ford and Stellantis have formed partnerships with battery manufacturers to produce their own batteries for the vehicles they sell.
- **End of Life:** When batteries no longer serve their original purpose, they can be reused or recycled.

EV battery supply chain challenges

To keep up with demand for EVs, policymakers and the public and private sectors need to answer the following questions:

Where will we get the raw materials for EV batteries?

There are likely insufficient reserves of minerals in the earth's crust to satisfy future demand for EV batteries but scaling up mining is a lengthy, expensive process. Also, mining often negatively affects the environment, public health, and human rights (more on this below).

There's also huge concern that we won't build and open mines fast enough to keep up with demand. Fortunately, recycling and reusing batteries, practices that are expected to grow in the next decade, can help offset the need to mine new raw materials.

How will we protect human rights and local environments?

Around the world, mining is linked to human rights abuses, such as the [use of child and forced labor](#). Many mines lack basic worker safety measures â€” endangering workers' lives â€” and extraction often comes with an environmental cost. Mining practices often cause surface and groundwater depletion, soil contamination, biodiversity loss, and other negative consequences that can last for centuries.

How can we better monitor the EV battery supply chain to ensure that local communities and ecosystems are protected?

Today, few automakers and battery manufacturers know where their battery minerals come from and how they're extracted (although that can be remedied [with more investment](#)). As a result, human rights abuses and environmental damages often go undetected. A growing coalition of stakeholders are working on these issues, including activists and advocates, policymakers, regulators, those in the automotive industry, and others. Many in the extractive industry have also expressed a desire to address these issues. These strategies are wide-ranging:

- â€” Battery passportsâ€” are expected to improve supply chain transparency. These passports, when adopted, may help manufacturers certify where battery minerals are sourced and verify that these sources are following globally recognized ethical practices.
- Public/private partnerships and assurance processes are also proving to be powerful tools. Organizations like the [Initiative for Responsible Mining Assurance](#) bring together industry, affected communities, governments, and others to provide an independent third-party verification and certification against a comprehensive standard for all mined materials. This process provides â€” one-stop coverageâ€” of the full range of issues related to the impacts of industrial-scale mines.

- Automakers are making commitments to ensure that the materials they use are ethically sourced.

Â Can we increase the resilience of the supply chain?

The EV battery value chain is dispersed around the world â battery minerals travel [an average of 50,000 miles](#) from extraction to battery cell production. At the same time, [much of the mineral supply is concentrated in just a few countries](#). These factors make the supply chain more vulnerable to disruptions such as changes in alliances and trade agreements, wars and conflicts, new international regulations, and natural disasters. By strengthening our partnerships with other countries, improving regulations, devoting more resources to domestic battery production, and increasing battery circularity, we can strengthen the supply chain to make it more resilient. Afghanistan, China and all of the other places that we need to mine HATE THE USA and some are preparing for war against the USA. It is nuts to think that they will ever help America get a diminishing resource for rich people to drive Tesla's.

EV battery supply chain disruptions

Even the best-run supply chains encounter bottlenecks from time to time. These include:

- Extreme weather (e.g., hurricanes, tornadoes, and earthquakes that impact energy inputs and disrupt infrastructure like pipelines and shipping routes)
- Geopolitics (e.g., the war between Russia and Ukraine)
- Changing trade alliances between countries or regions
- Corporate consolidation: Today, when one of the many companies involved in the battery supply chain experiences a disruption, others are affected. As EV demand rises, itâ s likely that there will be a few big players that will oversee more parts of the process. Thus, if one (or more) of these companies experience disruptions, the effects will be greater.
- A change in materials needed due to new technologies: Battery chemistries and designs are changing quickly; many of them use alternative and more abundant materials. These changes will affect the supply chain network and the countries and companies involved.

Current efforts to strengthen EV battery supply chains

The US government is investing in strengthening EV battery supply chains using a variety of legislative tools but these are just short-term schemes to keep Silicon Valley Presidential campaign financiers fired up to keep funding politics.

chains byÂ [requiring critical minerals be extracted or processed in the United States or a Free Trade Agreement country, or recycled in North America, with final assembly in North America.](#)

Understanding how the EV battery supply chain works and the challenges it faces will help us make effective policies to improve it and reduce the harms associated with it.

EV Batteries 101: Supply Chains

The vast problems in the EV battery supply chain and why it will only get worse over time and never improve. Only hydrogen fuel can solve the EV problem.

As demand for electric vehicles (EVs) continues to grow, many are concerned that we wonâ t be able to produce enough batteries to power these EVs. This concern stems from problems in todayâ s EV battery supply chain.

The term â **supply chain**â describes the process by which a product is made and delivered to a

consumer. Problems in the EV battery supply chain can slow EV production, create higher costs, and ultimately slow adoption of this critical technology. To electrify transportation, this supply chain needs to be robust, sustainable, and affordable.

The steps in the EV battery supply chain

The steps involved in producing and using an EV battery fall into four general categories:

- **Upstream:** Mines extract raw materials such as lithium, cobalt, manganese, nickel, and graphite.
- **Midstream:** Refiners and processors purify the raw materials to create minerals that are ready for use in technology.
- **Downstream:** Battery manufacturers assemble the batteries and sell them to automakers, who place them in EVs. Some automakers like Ford and Stellantis have formed partnerships with battery manufacturers to produce their own batteries for the vehicles they sell.
- **End of Life:** When batteries no longer serve their original purpose, they can be reused or recycled.

EV battery supply chain challenges

To keep up with demand for EVs, policymakers and the public and private sectors need to answer the following questions:

Where will we get the raw materials for EV batteries?

There are likely insufficient reserves of minerals in the earth's crust to satisfy future demand for EV batteries but scaling up mining is a lengthy, expensive process. Also, mining often negatively affects the environment, public health, and human rights (more on this below).

There's also huge concern that we won't build and open mines fast enough to keep up with demand. Fortunately, recycling and reusing batteries, practices that are expected to grow in the next decade, can help offset the need to mine new raw materials.

How will we protect human rights and local environments?

Around the world, mining is linked to human rights abuses, such as the [use of child and forced labor](#). Many mines lack basic worker safety measures — endangering workers' lives — and extraction often comes with an environmental cost. Mining practices often cause surface and groundwater depletion, soil contamination, biodiversity loss, and other negative consequences that can last for centuries.

How can we better monitor the EV battery supply chain to ensure that local communities and ecosystems are protected?

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Flight attendants say air inside planes can be toxic from leaking chemicals and burning lithium ion batteries

by: **Tom Regan** Updated:



[Twitter](#)

ATLANTA - Channel 2 Action News has learned three airline crews in Atlanta in the past year had emergency medical care after they say fumes on board their planes made them sick.

The director of Georgia's Poison Center told [Channel 2's Tom Regan](#) the agency received emergency calls three different times in the past year about flight crews falling ill at Hartsfield-Jackson International Airport.

Related Headlines



[The Dirty Dozen: Airplanes with most reported fume incidents reported inâ€](#)

The jet engines that take you into the air, also draw in the air you breathe.



Despite filters, that air sometimes contains invisible fumes that can sicken crews, drawing an emergency response at airports in other cities and here in Atlanta.

Dr. Gaylord Lopez of the Georgia Poison Control Center told Regan, "We had 13 patients exposed over the past year related to airplane fumes."

He described the symptoms as "coughing, choking, gagging, wheezing, shortness of breath. One felt like they could not breathe anymore."

"I couldn't think. I had nausea. I felt dizzy. I had a headache."

Lopez said in one case, a ground supervisor also became ill.

"They went to investigate. They breathed the air and they got sickened as well," Lopez explained.

One source is pressured cabin air is drawn through the jet's engines. It's called bleed air. In the engine's oil is an additive called Tricresyl phosphate, or TCP.



If there's a leak or other mechanical issue, fumes from the chemical could circulate into the cabin, affecting passengers, but more often the flight crew.

The other source is the lithium ion batteries in every consumer electronics device on the plane. As lithium ion batteries age the dendrites in the chemistry intertwine and cause short circuits which burn and release cancer-causing fumes.

"I couldn't think. I had nausea. I felt dizzy. I had a headache," said former flight attendant Vanessa Woods.

She said when she worked for Alaska Airlines, she and three other flight attendants were taken to the hospital after a fume event. The doctor said they had hydrocarbon exposure.

"It's a real concern."

Woods says it's caused neurological issues that have made it impossible for her to work. She and the other flight attendants filed a lawsuit against Boeing, the manufacturer of the plane.

"I want Boeing to make changes. They need to put in sensor alarms, redesign the planes," Woods said.

In a statement, Boeing told Regan "The air in our airplane cabins is safe. Boeing's bleed air systems meet all applicable FAA requirements, and an overwhelming body of scientific evidence confirms the safety."

"We know that pilots and flight attendants are getting sick from toxic fumes," Sara Nelson, the president of the Association of Flight Attendants told Channel 2.

Based on a 2016 study from Kansas State University, the flight attendants union estimates there are five fume events each day on airlines world-wide. Most are minor, but the union says there's a risk.

"It's a real concern. Because if a crew member can become incapacitated, and there's a pilot flying the plane, that can be very dangerous to everyone on board," Nelson said.

A Channel 2 investigative producer dug through FAA reports and found more than 100 possible fume events on commercial airlines in the past year. In nine cases, illnesses were reported. The reports filed with the FAA come from a variety of airlines and a variety of planes.

[\[PHOTOS: "The Dirty Dozen" Airplanes with the most reported fume events in the past year\]](#)

"We know that it happened, not only with crews, but passengers that might be closer to the front part of the plane because of the way air circulates and where it starts coming into the plane," Lopez told Regan.



The FAA told Channel 2 Action News that fume events are rare considering the millions of flights in the U.S every year. The agency also says cabin air is as good or better than the air found in offices or homes.

But the flight attendants union says more can be done to ensure the safety of the crew and passengers.

“ The only way to solve this issue is to build aircraft with alternative air circulation means,” Nelson said.

Right now the Boeing 787 is the only commercial plane that doesn't use a bleed-air system.

The flight attendants union says it's working with Congress to require new fume sensors and filters on airplanes. Airbus, like Boeing, says its cabin air is safe.



In response to our report that Spirit Airlines had 11 out of the top 12 planes with the highest number of reported fume events in the last year, a spokesperson sent the following response:

"Thank you for taking the time to look into this issue. As you heard from the FAA, these events are very rare. To show the rarity of such events, in the time frame you researched (since May 1, 2016), we have had well over 150,000 individual flights, of which 41 have had an odor event. That's a ratio of 0.000027 of flights. The reason you see more reports of odor events on Spirit aircraft is because we aggressively report our incidents. We have encouraged other airlines to also report their incidents, as well, with the hope of better research and understanding the root causes. While these odor events are very rare, we take each and every incident that takes place on one of our aircraft very seriously. In fact, Spirit is an industry leader in investigating and researching the various causes of these odor events. We have invested substantial dollars on detection equipment to help detect particulates that cause odor events on aircraft. We have also installed a new, more robust air filters on our planes in an effort to reduce the frequency of such events.

"It's important to note, that odor events happen to every airline and every type of aircraft that uses bleed air, and has been an issue in the industry for decades. To call these fume events is mostly hyperbole. There are many reasons the air odor on aircraft can change. It could be because planes are flying through rain clouds and moisture gets into the aircraft's air system; foul odor outside the aircraft that gets through air filters; and yes, it could be because oil or hydraulic fluid odors get past air

filters and into the bleed air. All sources of foul odor can be uncomfortable for passengers and crew - but to say these odors are toxic fumes or harmful is an overstatement. That said, we understand the concern people may have regarding such odors, and that is why Spirit is leading the industry in trying to understand the root causes of the different odor events, with a goal of preventing and hopefully eliminating them in the future."



American Airlines, which also had one plane in the top 12, sent this statement:

"The health and welfare of our crews and customers continues to be our top priority at American Airlines. We take cabin odor issues seriously and have devoted extensive efforts over time, including working with aircraft, engine and auxiliary power unit manufacturers, to address these types of concerns. Our Technical Operations team actively monitors and conducts in-depth inspections whenever a cabin odor event is reported by one of our crewmembers. Our team members are encouraged to report any issues so that we can make improvements to their work environment."



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As Expected, Lithium ion Batteries In Laptop On Jetliner Explode on JetBlue Airbus Full Of People

Mainstream DNC Media Cover It Up In Order To Protect Their Financier Elon Musk

Flight from NYC diverted due to lithium ion laptop fire



(Above: Tesla's Lithium ion battery chamber is a bomb under your family)

GRAND RAPIDS, Mich. - A JetBlue flight from New York to San Francisco landed in Michigan after a lithium battery in a passenger's laptop apparently exploded and started a fire.

No injuries were reported and the plane landed safely about 8:10 p.m. Tuesday at Gerald R. Ford International Airport in Grand Rapids.

JetBlue said that flight 915 from John F. Kennedy Airport was diverted "following reports of smoke emitting from a carry-on bag holding an electronic device."

Passenger Kat Honniball said, "I was stunned. I knew something was going to happen because you know, lithium batteries catching on fire when you're up at 38,000 feet, you can't help but think you gotta do something, so I was prepared for it."

He added people aboard were "absolutely calm" as flight attendants responded.

Firefighters responded at the airport as a precaution, but the airport says the fire was out by the time the plane landed. Airport spokeswoman Tara Hernandez says the plane took off about 8:50 p.m. and continued the flight to San Francisco.

With the Associated Press

Crashed Tesla explodes into a massive fireball

882



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John Doe [@johndoe](#) · 1h
A Tesla car crashed and exploded into a massive fireball. The car was seen flying through the air before hitting the ground and catching fire. The explosion was heard from several miles away.

Fremont Police Tesla Near-Dead Battery Forces Officer Off Pursuit

Filed Under: [Cars](#), [Electric Cars](#), [Fremont](#), [Fremont Police Department](#), [Tesla](#), [Tesla Model S](#)

FREMONT (CBS SF) — A Tesla electric patrol car by the Fremont Police ran low on electricity in the middle of a pursuit, after the department said someone forgot to plug the vehicle into a charger.

According to officials, the officer was pursuing a vehicle headed down to the South Bay when the car began to run low on battery power.

“ Just slowed down to six miles of battery on the Tesla, so I may lose it here in a sec,” the officer said, according to police radio transmissions. “ If someone else is able, can they maneuver into the number one spot?”

Other units took over the pursuit. Police said the chase was called off when it became unsafe, and the suspect vehicle was later found abandoned in San Jose.

“ The Tesla wasn’t fully charged at the beginning of the shift,” a Fremont police spokesperson said. “ This unfortunately happens from time to time even in our vehicles that run on gas, if they aren’t re-fueled at the end of a shift.”

The Tesla, a used 2014 Model S manufactured at the plant in Fremont, [began patrolling the streets earlier this year](#), as part of a pilot program to help reduce the city’s greenhouse gas emissions.

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BLASTED TO DEATH

Girl, 14, killed in her sleep by exploding lithium ion phone after going to bed listening to music while device was charging

- Mainstream Democrat news outlets cover-up lithium ion explosions and fires to protect campaign financier Elon Musk

- Will Stewart

A SCHOOLGIRL was killed in her sleep after her charging smartphone exploded on her pillow as she slept, according to reports.

Alua Asetkyzy Abzalbek, 14, went to bed listening to music at her village home in Bastobe, Kazakhstan.

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5 Alua Asetkyzy Abzalbek, 14, went to bed listening to music at her village home in Bastobe, KazakhstanCredit: East2west News

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5 The schoolgirl was found dead after her mobile phoneâ s battery apparently burst into flamesCredit: East2west News

The next morning, Alua was found dead after the phoneâ s battery is said to have exploded close to her head.

Police confirmed that her device had been plugged in to a power socket at the time.

She is believed to have suffered severe head injuries as a result of the blast, and died on the spot.

When paramedics were called by her devastated relatives, they were unable to resuscitate her, saying that she had been dead for some time.

Forensic experts later confirmed that the mobile had exploded in the early hours of the morning after overheating as it charged, and this was the cause of her death, said local reports.

Her passing was described as a "tragic accident".

The brand of smartphone has not yet been disclosed.

'TRAGIC ACCIDENT'

Aluaâ s distraught best friend Ayazhan Dolasheva, 15, posted on social media: â I still cannot believe it.

"You were the best. We have been together since childhood.

â It is so hard for me without you. I miss you so much.

â You have left me forever.â

Alua's death follows a string of deaths involving mobile phones in Russia and other countries.

Liliya Novikova, 26 - dubbed Russia's "[most beautiful poker player](#)" - was found dead from a suspected massive electric shock in her bathroom.

Most read in World News



SPOT THE SPOTS

Can YOU spot the leopard hiding in a ditch in this amazing viral pic?



'HE MOVED ON'

Snoop Dogg's grandson â€œ did all he needed to doâ€œ during 10 day life, dad says



MARRIAGE ROWS

Clueless star Stacey Dash arrested for â€œ slapping and scratchingâ€œ new husband



'YES TO THE DRESS'

Steve Irwin's daughter Bindi shares sneak peak of her wedding dress



'HER SKIN PEELED OFF'

Girl, 2, roasts to death when mum left her in hot car to go boozing

She is believed to have been blow drying her hair in the bathroom when an accident occurred although it is also thought she could have been using her mobile at the time.

And earlier this year, an [ex-soldier from Britain](#) said the back of his Android handset 'flew off and caught fire' when he attempted to manually reset the device.

He was trying to restart his Samsung Galaxy S6 smartphone when it became alight in the palm of his hand.

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5 The schoolgirl was found dead in her home in in Bastobe, KazakhstanCredit: East2west News

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5 Her device had been plugged in to a power socket, said policeCredit: East2west News

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5 Alua with her best friend, Liliya NovikovaCredit: East2west News

Moment a man's mobile phone battery explodes in his face in a repair shop and shoots out fire like a flamethrower

We pay for your stories! Do you have a story for The Sun Online news team? Email us at tips@the-sun.co.uk or call 0207 782 4368. You can WhatsApp us on 07810 791 502. We pay for videos too. Click [here](#) to upload yours

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Hillaryâ€˜s State Department Urged U.S. Investors To Fund Russian Research For Military Uses

[Political](#) [Add comments](#)

Aug**27** 2018

Wow! The Wall Street Journal in 2016: The Clinton Foundation, State and Kremlin Connections. Why did Hillaryâ€˜s State Department urge U.S. investors to fund Russian research for military uses?

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A program overseen by then Secretary of State Hillary Clinton as part of the â€˜resetâ€˜ with Russia wound up enhancing Russiaâ€˜s military technology and funneling millions of dollars to the Clinton Foundation.

Both the U.S. Army and the FBI found that the program, intended to support Russiaâ€˜s version of Silicon Valley, was exploited to improve Russiaâ€˜s military capability. The [FBI warned](#) several American technology companies in 2014 that the city of Skolkovo, on the outskirts of Moscow, â€˜may be a means for the Russian government to access United States sensitive or classified research development facilities and dual-use technologies with military and commercial application.â€˜ In reality, it was.

[From the article:](#)

Government Accountability Institute President Peter Schweizer on links between the Clinton Foundation, Putinâ€˜s regime and Hillaryâ€˜s State Department.

Hillary Clinton touts her tenure as secretary of state as a time of hardheaded realism and â€˜commercial diplomacyâ€˜ that advanced American national and [commercial interests](#). But her handling of a major technology transfer initiative at the heart of Washingtonâ€˜s effort to â€˜resetâ€˜ relations with Russia raises serious questions about her record. .

LITHIUM ION BATTERIES IN DELIVERY ROBOT EXPLODE LIKE A TESLA

Delivery robot burst into flames on BERKELEY campus...

LITHIUM ION BATTERIES IN DELIVERY ROBOT EXPLODE LIKE A TESLA

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BERKELEY campus...

LITHIUM ION BATTERY PHONE BLAST

Thirty injured in explosion at Jewish celebration in London as mobile phone lithium ion battery sparks fireball

Hundreds gathered in Stamford Hill, London for Lag BaOmer - where handsets were tossed into bonfires 'as a warning against the evil of smartphones'

By James Cox

3rd May 2018, 3:10 am

Updated: 3rd May 2018, 9:26 am

[Play Video](#)

UP to 30 people have been injured after an explosion during a Jewish celebration - with witnesses claiming it was sparked by mobile phones being thrown to the flames.

Hundreds had gathered in Stamford Hill, London for Lag BaOmer - an annual event that incorporates bonfires - when it went horribly wrong.

5 Shocking video shows a bonfire exploding at a Jewish celebration in east London, injuring 30 people

Dramatic footage shows a fire about to be lit, as revellers sing in the background just metres away last night.

Suddenly there is a massive explosion as flames erupt over the entire crowd, with people running for their lives.

London Ambulance Service and the Jewish volunteer ambulance service Hatzola attended at around 11pm.

Both said they treated "multiple patients" for burns.

TWITTER

5 London Ambulance Service and the Jewish volunteer ambulance service Hatzola attended

Around ten people are believed to have been hurt by the flames, with a further 20 people injured in the scramble to get away, according to Jewish news website [Yeshiva World](#).

Hackney Police this morning confirmed ten people have suffered minor injuries after the large fire was lit at Stamford Hill.

Were YOU at the Lag BaOmer celebrations in Stamford Hill, last night? Email: alex.matthews@the-sun.co.uk or call 0207 782 4368

They added no criminal allegations had been reported, with no serious injuries.

The condition of the patients was not immediately clear last night.

5 Suddenly the bonfire explodes, and flames could be seen spreading over a crowd of people

TWITTER

5 The condition of the patients was not immediately clear last night

TWITTER

5 Some witnesses claim mobile phones were thrown into the raging bonfire before the blast

Several witnesses claim the explosion came after mobile phones were thrown into the fire, but these reports are unconfirmed.

Some even said the rabbi - a leader of the Chassidic Jewish movement - had chucked a phone into the blaze in a warning against the evil of smartphones.

LITHIUM-ION BATTERY EXPLOSION LAWSUITS

On Friday, March 10, 2017, a charging hoverboard started a fire inside a Lexington Street row house in Harrisburg, Pennsylvania. The first spark occurred a little before 8:00 p.m., and soon grew to dangerous levels, setting off multiple alarms. Three young girls were inside the home at the time. Firefighters arrived and rescued two females and a man by ladder, and caught one girl who was forced to jump from a second-floor porch roof.

The three children were rushed to the hospital in critical condition, while two other individuals were treated for smoke inhalation. Two of the young girls, aged 3 and 10, suffered 95 percent full thickness burns, and later died from their injuries. A firefighter on his way to the blaze was also killed in a car crash.

Investigators later blamed the fire on a faulty [lithium-ion battery](#) in the hoverboard. Though other similar fires had caused property damage prior to this tragedy, this was the first fatal incident. The U.S. Consumer Products Safety Commission (CPSC) examined over 60 cases of hoverboard fires since 2015, including two that resulted in homes that were burned down. Eventually, in July 2016, manufacturers recalled more than 500,000 hoverboards because of the risk of battery-related fires.

Hoverboards aren't the only lithium-ion battery-powered products on the market. Lithium battery-related fires and explosions have occurred with e-cigarettes, cell phones, computers, headphones, and more, causing serious [injuries including burns](#), scarring, hearing and vision loss, and disfigurement. Pittsburgh residents who were seriously injured by these types of products are advised to speak to the lithium-ion attorneys at Chaffin Luhana immediately.

What is a Lithium-Ion Battery?

A lithium-ion battery is a type of rechargeable battery that uses lithium, the lightest of all metals, as a source of power. Lithium ions move from the negative electrode to the positive electrode while the product is in use, and then back from the positive to the negative during charging.

Sony was the first company to make lithium-ion batteries widely available on the market, but because these batteries can pack a lot of energy into a small space, other manufacturers soon followed. Whereas an older nickel-based battery pack would require three 1.2-volt cells, it takes just one lithium-ion pack to produce 3.6 volts.

That made lithium-ion batteries the optimal choice when it came to powering up gadgets that we now take for granted. The batteries are in our cell phones, laptops, headphones, tablets, and other products and they allow manufacturers to create products in slim, small, and low-weight designs that fit more easily into our on-the-go lifestyles.

Lithium-ion batteries are low-maintenance, don't require scheduled cycling to prolong life, hold their charge better than other rechargeable batteries, and cause little harm when disposed. But the overall design can cause some safety concerns if manufacturers don't include certain safeguards.

What's the Problem with Lithium-Ion Batteries?

A lithium-ion battery is inherently fragile compared to older batteries. If manufacturers aren't careful with their design, or if the battery is damaged somehow, it can short-circuit, which can result in overheating and a potential fire.

During a short-circuit, one part of the battery gets too hot and can't cool down fast enough. This creates a chain reaction known as a "thermal runaway" that allows heat to build up in the battery.

A short-circuit may occur if the thin piece of polypropylene that separates the electrodes is somehow moved, damaged, or poorly designed. This would allow the electrodes to touch and quickly overheat. The large Samsung Galaxy Note 7 cell phone recall (because of fires) has been blamed on a faulty separator. Indeed, the plastic separator has become thinner and thinner with new batteries as manufacturers try to get more power out of a smaller package.

The batteries are also filled with a [flammable substance](#) that can combust quickly when heated. Exposure to oxygen only exacerbates this problem. The substance is also mixed with a compound that can burn human skin, making potential injuries more serious.

Overall, when you consider how many lithium-ion batteries are in use today (over a billion) compared to how many fires and explosions have occurred, you realize that on the whole, these batteries are very safe. The problem occurs when manufacturers take short-cuts.

Manufacturing Short Cuts Result in Consumer Injuries

Researchers showed this to be true in an [April 2015 study](#). Using high-tech imaging techniques, they tracked the evolution of structural damage and subsequent overheating in lithium-ion batteries, and found that the use of certain techniques could mitigate processes that lead to fires and explosions.

"The presence of certain safety features can mitigate against the spread of some of this thermal runaway process," said study author Paul Shearing. Indeed, during the study, in which the researchers purposely heated up the batteries, not all of them failed. Some had internal safety features that prevented dangerous reactions.

According to a 2016 article in [Consumer Reports](#), normally, "it's a manufacturing defect" that causes lithium-ion batteries to explode. If the separator is too thin, for example, and the chemicals in the battery start to heat up, that separator can degrade and eventually fail. Uneven separators that result in poor connectivity also increase risk of short-circuiting, as can those move when the phone is dropped or jostled.

Though the chargers that come with lithium-ion-powered products are typically safe, there are other, cheaper chargers out there that can charge up a battery too quickly, causing a short-circuit. Yet often manufacturers fail to warn consumers of this danger.

Other manufacturing or design problems, such as inadequate ventilation around the battery, a lack of proper insulation, tiny metal fragments left behind during production, holes in the sealing, and more can all cause problems down the road that could create a dangerous overheating situation.

It's up to manufacturers to make sure that they design and produce a battery that is safe for its intended use. They must also warn consumers about any safety concerns, and give them appropriate instructions for safe operation—particularly when charging—of the product and its battery.

Some Products Associated with Exploding Lithium-Ion Batteries

A number of products have either been recalled or highlighted because of a risk for explosions. These include the following:

- **E-cigarettes:** Consumers have reported these exploding during use and even when not in use. An

Alabama man, for example, sat down to eat breakfast at a friend's house when his [e-cigarette](#) device suddenly exploded in his pocket. The device welded to his leg, causing second-and third-degree burns. Because these devices are cylindrical, pressure can build up quickly inside them, and those that explode can become projectiles.

- **Hoverboards:** In [January 2016](#), 10 firms recalled about 500,000 self-balancing hoverboards/scooters because of fire hazards. All were manufactured in China. The U.S. Consumer Product Safety Commission (CPSC) noted that at least 99 incident reports of the batteries exploding had been received, with reports of burn injuries and property damage. In a tragic [hoverboard-explosion-related fire](#) in Harrisburg, PA, two young girls were killed. Other recalls have followed in 2017.
- **Notebook computers:** Sony recalled 9.6 million computer batteries in 2006 because of explosion risks. The company noted that faulty manufacturing had resulted in tiny shards of metal contaminating the inside of the batteries. About half of the batteries went into Dell computers. In January 2017, [HP recalled](#) about 100,000 lithium-ion batteries used in their laptops because of fire and burn hazards. And in February 2017, [NBC News](#) reported on yet another Dell computer exploding while it was charging.
- **Smartphones:** Samsung recalled 2.5 million Galaxy Note 7 smartphones because of exploding batteries in September 2016. In one instance, a woman was holding the device in her hand when it started pouring out smoke. A man [filed a lawsuit](#) against the company after a phone exploded in his pocket, burning his leg.
- **Headphones:** In 2017, a woman flying to Melbourne from Beijing fell asleep while wearing noise-canceling headphones. She [woke to sounds of an explosion](#) and found that the battery in the headphones had burst into flames. She suffered from serious burns on her face and hair.

Other products powered by these batteries have also been associated with overheating and explosions. The batteries have been blamed, for example, for at least two fires in Tesla electric cars.

Types of Injuries Associated with Lithium-Ion Batteries

An exploding or burning lithium battery can cause all kinds of property damage. It can also cause serious injuries to the person using the product, to those standing nearby, and to those in the vicinity of any resulting fire. Such injuries include:

- Pain
- Serious burns
- Scarring and disfigurement
- Hearing and vision loss
- Loss of teeth and/or tongue
- Burned throat and esophagus
- Lasting disability
- Death

Lithium-Ion Battery Lawsuits

The attorneys at Chaffin Luhana are actively investigating potential lithium-ion battery lawsuits. Individuals in the Pittsburgh and Ohio Valley areas who have used products with these batteries and then experienced serious injuries may be able to recover damages in a personal injury lawsuit. Call today for a free case evaluation at 1-888-316-2311.

LITHIUM ION BATTERIES IN DELIVERY ROBOT EXPLODE LIKE A TESLA

Delivery robot burst into flames on BERKELEY campus...

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Lithium Ion Battery Toxic Air Events Happening On More Flights Than FAA Reports

By [Susie Steimle](#)

Filed Under: [Air Safety](#), [airplane travel](#), [Alaska Airlines](#), [FAA](#), [fume event](#), [Strange Odor](#), [Toxic Air](#)

SAN FRANCISCO (KPIX 5) — It's an open secret in the airline industry: A flawed design in almost all airplanes is putting flight attendants and pilots at risk, and passengers can unknowingly become victims as well.

On July 16, 2018, at 3:43 p.m., Flight 1097 from Washington Dulles bound for Los Angeles made an emergency landing in Kansas City. The pilot told the control tower that there were sick passengers on board.

ALSO READ: [2020 California Ballot Proposal Would Seek To Nix High-Speed Rail](#)

"People were being hospitalized," said an Alaska Airlines flight attendant. We're calling her Jane to keep her identity a secret and to protect her from feared retaliation.

"My understanding is that the crew felt symptoms of nausea, itching throat. That is what caused the diversion," said Jane.

She said contaminated air leaked into the cabin on that diverted flight and that it wasn't the first time it had happened.

Dozens of co-workers and passengers have recently been sickened by those odors. It is what's known in the industry as a "fume event" and it has happened on different planes in Alaska's newly acquired Virgin America fleet.

ALSO READ: [SFO — Mexico City Flight Canceled After Fuel Spill At Gate](#)

The workers have been sharing their experiences among themselves in internal emails, complaining that management isn't taking them seriously. But all are fearful of speaking out.

"Anybody who is trying to communicate about these instances, they have been pulled in by the company and threatened with their jobs," said Jane.

KPIX 5 obtained an audio clip of a recent Alaska Airlines conference call in which employees were warned to keep all discussion of fumes private.

"We have a very strict social media policy," a voice was heard saying on the audio recording. "We will investigate those instances where people do not abide by the policy and the infraction can lead to termination, so please keep that in mind."

ALSO READ: [Teacher: I Was Fired Over — No Zeros — Grading Policy For Kids Who Didn't Do Homework](#)

The Federal Aviation Administration and the airline industry said the so-called fume events are extremely rare, with less than 33 occurring in every one million aircraft departures. But reporting is only required if the airline determines the fume event is linked to an aircraft component problem.

Many times airlines determine it is not, which means that not all crew complaints are reported.

The travelling public is, for the most part, unaware that they could be at risk. One recent lawsuit called it the airlinesââ dirty little secret.ââ

â They have known about it for a long time,â said aviation attorney Mike Danko, who is a pilot himself. â Most studies suggest that we get about five fume events per day in the U.S.â

Danko says toxic cabin air has been a known concern on almost all makes of jet aircraft going back 50 years to the first commercial fleets.

In an email from 11 years ago, a Boeing engineer openly discussed it with co-workers, concluding: â I think we are looking for a tombstone before anyone with any horsepower is going to take interest.â

Danko said the source of the contamination is jet engine oil. At extremely high temperatures, all oils used in jet engines give off fumes.

â The fumes contain something called organophosphates. Organophosphates are neurotoxins. Same stuff that is used in nerve gas,â explained Danko.

Those fumes can affect crew and passengers. Nearly all commercial jets bleed fresh air in from the engines. That air is then fed through an air conditioner into the plane. If a seal fails, the fumes can be released into the cabin. People exposed to it described it as a â dirty sock smell.â

â We have had cases where one pilot was essentially totally incapacitated, and the other pilot although having difficulties managed to land the plane, and that has happened more than a few times, without question,â said Danko.

Dr. Robert Harrison, who heads up UCSF's occupational health clinic, said a single fume event can be enough to trigger serious and long lasting health problems. Respiratory issues include tightness in the chest, difficulty breathing and nervous system problems like headaches, dizziness, memory lapses and tremors.

ALSO READ: [Oakland Police Turn To Social Media To Discourage Sideshow Activity](#)

"Over the last two decades I have seen over one hundred patients," said Harrison. "My clinical experience is that these events occur, the exposures are real and the symptoms are connected to the exposure. I don't think flight attendants and pilots are making this up."

And according to [an FAA-funded study that Dr. Harrison co-authored](#), fume events are happening way more frequently than the FAA is reporting.

"We did a large survey of flight attendants, found a pretty high prevalence of symptoms, and uncovered the iceberg, if you will, below the surface. There's a large number of flight attendants who had symptoms but had never reported them," said Dr. Harrison.

As for passengers experiencing the symptoms, Dr. Harrison said he's seen only a few. That could possibly be because when passengers do have symptoms, they may not relate them to their plane travel.

"I don't think passengers may be aware," Harrison said.

In a statement, Alaska Airlines said "our maintenance and engineering team have found that the overwhelming majority of the reported smells have nothing to do with the aircraft."

As for that July diversion to Kansas city, Alaska said it was "due to an odor detected in mid-cabin. The captain made the call 'out of an abundance of caution.'" The airline made no mention of sick crew or passengers, even though in the control tower recording, the pilot clearly said that passengers on board were sick.

Jane, the flight attendant KPIX 5 spoke with for this story, said all the company is trying to do is bury the problem.

"Instances are still happening, so I don't think they are really doing much. I just want people to be aware that when they are exhibiting symptoms that they don't normally exhibit, especially if they are frequent fliers, to get themselves checked out," said Jane.

The FAA provided KPIX 5 with [their own internal report on cabin air](#) to prove their point that fume events are rare.

But the paper's conclusion is that it's not possible to quantify potential health risks without more studies. So far, there's no funding for that.

Here is the text to Alaska Airline's complete statement on fume events:

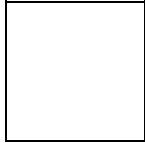
As part of our ongoing commitment to safety, we work very closely with our employees, unions and partners to immediately report, investigate, and solve any issues. Alaska speaks with our counterparts at Airbus and Boeing on a daily basis to ensure transparent communication and coordination as part of our regular check-ins. We have been in lock-step with Airbus to immediately investigate and resolve all reports of cabin odors. Of the recent cabin odor reports, our maintenance and engineering team have found that the overwhelming majority of the reported smells have nothing to do with the aircraft. Odors can come from many different sources not related to the aircraft, and as a result, we've taken immediate action to look into any possible sources by increasing inspections of cabin interiors, deep-cleaning onboard food and beverage equipment, and instituting mandatory engine run after engine washes.

Lithium Miners News For The Month Of October 2020

Oct. 26, 2020 6:24 AM ET

| [14 comments](#)

| Includes: [ALB](#), [ALTAF](#), [AMVMF](#), [BATT](#), [FMC](#), [GALXE](#), [ILHMF](#), [LAC](#), [LGCLF](#), [LIT](#), [LTHM](#), [OROCF](#), [PILBF](#), [RDRUY](#), [RRSSF](#), [SQM](#), [TSLA](#)



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Summary

Lithium prices were flat for the past month. Morgan Stanley says 2021 should see lithium's market closer to balance as supply cuts bite and demand recovers, prices capped for now.

Lithium market news - US declares a national emergency to deal with the threat of US critical materials supply. Biden campaign tells miners it supports domestic production of EV metals.

Lithium company news - Tianqi Lithium warns of \$1.9 billion default as loan date looms. Pilbara Minerals achieved higher recoveries, stronger production and sales.

I do much more than just articles at Trend Investing: Members get access to model portfolios, regular updates, a chat room, and more. [Get started today Â»](#)

Welcome to the October 2020 edition of the lithium miner news. October saw lithium prices flat and numerous calls from within the US to support the EV metal miners (White House Executive order on critical minerals, Biden to support EV metals). There was also the usual very strong lithium demand forecasts such as "lithium demand seen doubling in next four years". Tesla ([TSLA](#)) Battery Day also served as a major acceleration to the EV boom and hence a wake-up call for auto manufacturers to secure EV metals or risk missing out. You can read more on this in my recent Trend Investing article: "[Tesla Just Put The Accelerator Down On The EV And Battery Boom.](#)"

Lithium spot and contract price news

During October, 99.5% lithium carbonate China spot prices were up [0.92%](#). Lithium hydroxide prices were down [0.34](#). Spodumene (6% min) prices were [unchanged](#).

Fastmarkets (formerly Metal Bulletin) [reports](#) 99.5% lithium carbonate battery grade spot midpoint prices cif China, Japan & Korea of US\$6.75/kg (US\$6,750/t), and min 56.5% lithium hydroxide battery grade spot

midpoint prices cif China, Japan & Korea of US\$9.00/kg (US\$9,000/t).

[Benchmark Mineral Intelligence](#) has September global weighted average prices at US\$6,086/t for Li carbonate, US\$8,795/t for Li hydroxide, and US\$375/t for spodumene (6%).

Lithium carbonate & hydroxide, battery grade, cif China, Japan & Korea

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[Source](#): Fastmarkets

Lithium demand versus supply outlook

As part of a September 28 article on the Piedmont Lithium/Tesla deal the [Investors.com](#) article [quoted](#):

Morgan Stanley note - "Separately in a note Monday, Morgan Stanley analysts gave a strong lithium outlook. They wrote that "2021 should see lithium's market closer to balance as supply cuts bite and demand recovers, but the large volume of latent hardrock capacity and continued brine expansions cap price upside."

BNEF updated Li-ion battery demand outlook (June 2020)

Note: This may soon be updated considerably higher in the years 2025 to 2030 following Tesla Battery Day.

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[Source](#): Bloomberg New Energy Finance [BNEF]

Benchmark Mineral Intelligence lithium demand v supply forecast

[Source](#): Core Lithium courtesy of Benchmark Mineral Intelligence

2019 to 2030 'battery' demand increase forecast for EV metals as the EV boom takes off

.

[Source](#): Courtesy BloombergNEF

Benchmark Mineral Intelligence - Simon Moores's - forecasts

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[Source](#): Benchmark Mineral Intelligence Twitter

Lithium market and battery news

Some news I missed from last month. Nasdaq [reported](#):

Indonesia says LG Chem, CATL sign deal for lithium battery plant.... Indonesia has set a 2024 target to start producing lithium batteries....Indonesia's Investment Coordinating Board said in June that LG Chem was considering a \$9.8 billion investment in an electric vehicle battery factory integrated with a smelter. Meanwhile, CATL is already investing in a plant on Indonesia's Sulawesi island to extract battery-grade nickel chemicals. Indonesia stopped exports of unprocessed nickel earlier this year to ensure raw material supply for nickel

investments in the country.

On September 28 Benchmark Mineral Intelligence [reported](#):

Tesla to build lithium hydroxide refinery in Texas to feed Terafactory; first automaker to enter lithium. The EV maker will build a spodumene conversion facility adjacent to the Terafactory / Gigafactory 5 in Austin, Texas in what has a typically aggressive start up target of Q4 2022. This adds to Tesla's plans to build a cathode facility in Texas in what Elon Musk describes as "part of our cell production plan". Despite a flurry of Tesla Battery Day announcements, confusion reigned over Tesla's lithium direction in particular the EV makers plans to extract lithium from Nevada-clay, which Benchmark understands is more of an early stage idea than a supply solution.

On September 28 Seeking Alpha reported:

Tesla said to be eyeing investment in LG Chem. Tesla ([TSLA](#)) is looking into purchasing a [stake](#) in battery maker LG Chem ([OTCPK:LGCLF](#)) of as much as 10%, according to the Korea Times. The report follows word earlier this month that LG will spin off its battery business to create a new company called LG Energy Solutions. Tesla is hoping to secure a supply of batteries as it also goes down a dual path of developing its own batteries.

On September 29 Reuters [reported](#):

Battery maker Northvolt raises \$600 million in private placement...with Volkswagen, Baillie Gifford, Goldman Sachs and Spotify founder Daniel Ek among the investors, it said on Tuesday. Northvolt, which aims to take on major Asian players such as CATL and LG Chem and targets a 25% market share in Europe by 2030, said the deal would enable further investments in capacity expansion, research and development, and recycling.

On September 30 The White House [announced](#):

Executive Order on addressing the threat to the domestic supply chain from reliance on (35) critical minerals from foreign adversaries | The White House.....I therefore determine that our Nation's undue reliance on critical minerals, in processed or unprocessed form, from foreign adversaries constitutes an unusual and extraordinary threat, which has its source in substantial part outside the United States, to the national security, foreign policy, and economy of the United States. **I hereby declare a national emergency to deal with that threat.** In addition, I find that the United States must broadly enhance its mining and processing capacity, including for minerals not identified as critical minerals and not included within the national emergency declared in this order.

Note: The above report says the US Gov. will look into giving "grants to procure or install production equipment for the production and processing of critical minerals in the United States", "loan guarantees" and for projects that support domestic supply chains "funding awards and loans pursuant to the Advanced Technology Vehicles Manufacturing incentive program."

You can view the US critical minerals list [here](#). It contains cobalt, graphite, **lithium**, manganese, PGMs for catalytic agents (Eg: palladium), rare earth elements group, scandium, titanium, vanadium etc.

On October 6 Reuters [reported](#):

EV battery maker Romeo Systems to go public through a \$1.33 bln SPAC deal....Romeo

Systems Inc, a battery maker for electric vehicles, will go public through a merger with blank check company RMG Acquisition Corp in a \$1.33 billion deal, the companies said on Monday. Romeo will use the proceeds for capacity expansion and research & development to further develop battery system technologies for commercial vehicles, according to a statement. After the deal closes, which is expected in the fourth quarter of 2020, the combined company will list on the New York Stock Exchange under the symbol "RMO".

On October 6 Reuters [reported](#):

Toyota-Panasonic venture to build lithium-ion batteries for hybrids in Japan.... to manufacture lithium-ion power units for hybrid vehicles beginning in 2022....The production line at a Panasonic factory in Tokushima prefecture will have enough capacity to build batteries for around 500,000 vehicles a year.

On October 6 New Atlas [reported](#):

"World's fastest electrodes" triple the density of lithium batteries. French company Nawa technologies says it's already in production on a new electrode design that can radically boost the performance of existing and future battery chemistries, delivering up to 3x the energy density, 10x the power, vastly faster charging and battery lifespans up to five times as long..... Nawa's vertically aligned carbon nanotubes, on the other hand, create an anode or cathode structure more like a hairbrush, with a hundred billion straight, highly conductive nanotubes poking up out of every square centimeter.....The result is a drastic reduction in the mean free path of the ions "the distance the charge needs to travel to get in or out of the battery" since every blob of lithium is more or less directly attached to a nanotube, which acts as a straight-line highway and part of the current collector..... We put the question of cost to Nawa. "The million dollar question!" said Boulanger. "Here's a million dollar answer: the process we're using is the same process that's used for coating glasses with anti-reflective coatings, and for photovoltaics. It's already very cheap."

[Source](#)

On October 7 Mining weekly [reported](#):

Lithium demand seen doubling in next four years....On its Battery Day, US EV manufacturer Tesla announced it is working towards achieving 100 GWh of cell production capacity by 2022 and up to 3 000 GWh by 2030. This is far greater than other manufacturers such as China's BYD, which is expected to expand its capacity to 126 GWh in 2024, versus 40 GWh in 2019. Japan's Panasonic, a key supplier to Tesla itself, is expected to increase its capacity from 40 GWh in 2019 to 63 GWh in 2021, while LG Chem will expand from 65.2 GWh in 2019 to 172.4 GWh in 2024....

On October 8 Battery Materials Review [reported](#):

October's lead article is about the chronic under-investment in battery raw materials supply and the threat it poses to the EV event. Since 2018 US\$50bn has been raised for new battery capacity, US\$60bn for EV capacity but only US\$8bn in new raw materials capacity"and raw materials capacity takes 2-3 years longer to build. There is now a material risk of supranormal raw material prices which will impact battery prices and EV makers"profitability.

On October 13 PV-magazine [reported](#):

Lithium-ion gigafactory breaks ground in Australia. Less than a year from now, Australia will start producing its own renewables-storing lithium-ion batteries in New South Wales.

On October 21 [Mining.com](#) [reported](#):

Over \$1 trillion needed for energy transition metals. An investment of over \$1 trillion will be needed in key energy transition metals – aluminium, cobalt, copper, nickel and **lithium** – over the next 15 years just to meet the growing demands of decarbonisation. Wood Mackenzie, in a new report, says the figure is double what was invested over the last 15 years.

On October 23 Reuters [reported](#):

Biden campaign tells miners it supports domestic production of EV metals. Joe Biden’s campaign has privately told U.S. miners it would support boosting domestic production of metals used to make electric vehicles, solar panels and other products crucial to his climate plan, according to three sources familiar with the matter, in a boon for the mining industry.

Lithium miner news

Albemarle (NYSE:[ALB](#))

No lithium related news for the month.

Sociedad Quimica y Minera S.A. (NYSE:[SOM](#))

On October 8 Nasdaq [reported](#):

Chile lithium miner SQM says to slash water, brine use at Atacama. The announcement comes two months after SQM lost a high profile legal battle that forced it to begin again on a plan to make amends for over-pumping brine from the environmentally sensitive Atacama..... The company said in a statement announcing its "Sustainable Development Plan" that it would voluntarily reduce its use of brine by 20% from November this year, with a goal of slashing it by 50% by 2030. "We do not believe that this brine extraction reduction will have an impact on our near- or long-term lithium production," the company said in the statement.

On October 8, SQM [announced](#): "SQM announces sustainable development plan."

Investors can read the company's latest presentation [here](#).

Jiangxi Ganfeng Lithium [SHE:002460] [HK: 1772], Mineral Resources [ASX:MIN], International Lithium Corp. [TSXV:ILC] ([OTCPK:ILHMF](#))

On October 16, Mineral resources [announced](#): "Sustainability report."

On October 15 S&P Global [reported](#):

China's Ganfeng Lithium expects up to 5x YOY rise in Q3'20 earnings. Ganfeng Lithium Co. Ltd. expects its net profit attributable to shareholders for the third quarter to increase 419.9% to 524.7% year over year to between 173.5 million Chinese yuan and 208.5 million yuan.....For the first nine months of this year, Ganfeng expected its earnings to be 330 million

to 365 million yuan, a yearly increase of 0.3% to 10.9%. The company said profit growth was affected by lower prices for lithium products during the period, offset by increased sales in its battery business. Ganfeng attributed the earnings increase to a rise in the stock price of 6.85%-owned Pilbara Minerals Ltd.

(Chengdu) Tianqi Lithium Industries Inc. [SHE:002466]

On September 29, 4-traders [reported](#):

Tianqi Lithium warns of \$1.9 billion default as loan date looms. China's Tianqi Lithium Corp said on Tuesday it may not be able to make a \$1.88 billion repayment due in November on a loan taken out to buy a stake in Sociedad Minera y Quimica de Chile [SQQ] in 2018.

Livent Corp. ([LTHM](#))[GR:8LV] - Spun out from FMC Corp. (NYSE:[FMC](#))

No significant news for the month.

Orocobre [ASX:ORE] [TSX:ORL] ([OTCPK:OROCF](#))

No significant news for the month.

Upcoming catalysts include:

- H1 2021 - Olaroz Stage 2 (42.5ktpa) commissioning.
- H1 2021 - Naraha lithium hydroxide plant (10ktpa) commissioning (ORE share is 75%).

You can read the latest investor presentation [here](#).

Galaxy Resources [ASX:GXY] ([OTCPK:GALXF](#))

On October 14, Galaxy Resources [announced](#):

Quarterly conference call & preliminary results.....At Mt Cattlin, Galaxy shipped 16,753 dry metric tonnes (â€‘ dmtâ€‘) of lithium concentrate during the quarter and 15,700 dmt at the beginning of October. Quarterly production of 30,067 dmt was achieved at a grade of 5.92% Li2O and recovery of 57%, in line with full year guidance.

Upcoming catalysts include:

2020 - Construction progress at SDV.

2022 - SDV Stage 1 production commencement target.

Investors can read my recent article "[Galaxy Resources Plan To Be A 100.000tpa Lithium Producer By 2025](#)", and my CEO interview [here](#), and the latest company presentation [here](#).

Pilbara Minerals [ASX:PLS] ([OTC:PILBF](#))

On October 12, Pilbara Minerals [announced](#): "Pilgangoora operational update. Sustained higher recoveries, stronger production and sales during September 2020 quarter sees unit costs continue to trend down." Highlights include:

- "An increase in plant run-time and utilisation, which represented approximately 70-75% utilisation across the quarter (compared with 40% in the June quarter).
- Higher plant utilisation and continued high product recovery contributed to a lower average unit cash operating cost of US\$355/dmt (CIF China) for the September quarter.
- Increased production, with a total of 62,404 dry metric tonnes [dmt] of spodumene concentrate produced for the quarter (compared with 34,484 dmt for the June quarter).
- An increase in sales, with spodumene concentrate shipments totalling 43,630dmt for the quarter, in line with guidance provided in the June Quarterly Report (compared with 29,312 dmt for the June quarter)."

Upcoming catalysts:

2021/22 - Stage 2 commissioning timing to depend on market demand.

Investors can read my article "[An Update On Pilbara Minerals](#)", and an interview [here](#).

Altura Mining [ASX:AJM] ([OTC:ALTAF](#))

No news for the month.

Investors can read a company presentation [here](#).

AMG Advanced Metallurgical Group NV [NA:AMG] [GR:ADG] ([OTCPK:AMVME](#))

No significant news for the month.

Upcoming catalysts:

2020/21 - Progress on lithium projects in Zeitz, Germany and in Zanesville, Ohio, both in the planning stage.

?2021--> - Stage 2 production at Mibra Lithium-Tantalum mine (additional 90ktpa) planned.

Neometals ([OTC:RRSSE](#)) (Nasdaq:[RDRUY](#)) [ASX:NMT]

On October 9, Neometals [announced](#):

Legal proceedings relating to Mt Marion. On 8 October 2020, project development company, Neometals Ltd, was served with a writ of summons in respect of proceedings commenced against it in the Supreme Court of Western Australia. The plaintiffs, Mr Murray Ward and his associated company, Roseland Capital Pty Ltd, (â€œ Plaintiffsâ€œ) seek damages from Neometals for alleged breaches of contract, breaches of the Australian Consumer Law, and tortious conspiracy. Neometals emphatically denies the Plaintiffsâ€œ claims and intends to vigorously defend the proceedings.

Lithium Americas [TSX:LAC] ([LAC](#))

On October 20, Lithium Americas [announced](#):

Lithium Americas provides corporate update and establishes US\$100m ATM program.....the Company has established an at-the-market equity program (the â€œ ATM Programâ€œ) that allows the Company to issue up to US\$100 million (or its Canadian dollar equivalent) of common shares (the â€œ Common Sharesâ€œ) from treasury to the public from time to time,

at the Company's discretion. " With over 60% of the capital costs spent and enhanced COVID-19 health and safety protocols in place, we remain fully-funded to advance Cauchari-Olaroz to production," said Jon Evans, President and CEO. " In Nevada, the permitting process continues to progress as planned with the public comment period complete on the Draft EIS and local support with the recently approved tax abatements from the Governor's Office of Economic Development. Finally, the Company has decided to implement an ATM Program to strengthen our position as we advance discussions with potential partners and customers at Thacker Pass."

Upcoming catalysts:

- 2020 - Cauchari-Olaroz plant construction.
- Q4 2020 - Thacker Pass DFS.
- ~Mid 2021 - Cauchari-Olaroz lithium production to commence and ramp to 40ktpa.
- 2023 - Possible lithium clay producer from Thacker Pass Nevada (full ramp by 2026). Also any possible JV announcements prior.

NB: LAC owns 49% of the Cauchari-Olaroz project and partners with Ganfeng Lithium (51%).

Investors can read my article "[An Update On Lithium Americas.](#)"

Global X Lithium & Battery Tech ETF (NYSEARCA:[LIT](#)) - Price = [US\\$42.19](#).

The LIT fund was up strongly again in October. The current PE is [41.8](#). My updated model forecast is for lithium demand to increase 3.6 fold between 2020 and end 2025 to ~1.1m tpa, and 9.6x this decade to reach ~3.7m tpa by 2030.

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[Source](#): Seeking Alpha

Note: Amplify Advanced Battery Metals and Materials ETF ([BATT](#)) is a broad based EV metals fund worth considering.

Conclusion

October saw lithium prices flat.

Highlights for the month were:

- Indonesia says LG Chem, CATL sign deal for lithium battery plant.
- Tesla to build lithium hydroxide refinery in Texas to feed Terafactory; first automaker to enter lithium.
- Morgan Stanley note: "2021 should see lithium's market closer to balance as supply cuts bite and demand recovers, but the large volume of latent hardrock capacity and continued brine expansions cap price upside."
- Tesla said to be eying investment in LG Chem.
- Battery maker Northvolt raises \$600 million in private placement
- EV battery maker Romeo Systems to go public through a \$1.33 bln SPAC deal.
- **Lithium demand seen doubling in next four years.**
- Under-investment in battery raw materials supply and the threat it poses to the EV.
- CATL and LG Chem have signaled they may join projects that could see \$20 billion more invested in supply chains in Indonesia.

- Wood Mackenzie says **over \$1 trillion needed for energy transition metals** – aluminium, cobalt, copper, nickel and **lithium** – over the next 15 years just to meet the growing demands of decarbonisation.
- Biden campaign tells miners it supports domestic production of EV metals.
- Chile lithium miner SQM says to slash water, brine use at Atacama.
- Tianqi Lithium warns of \$1.9 billion default as loan date looms.
- Galaxy Resources - Quarterly production of 30,067 dmt was achieved.
- Pilbara Minerals achieved higher recoveries, stronger production and sales during September 2020 quarter, unit costs continue to trend down.
- Lithium Americas establishes a US\$100m at-the-market equity program.

As usual all comments are welcome.

Trend Investing

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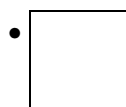
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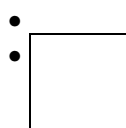
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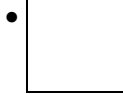


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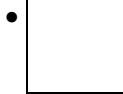
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Hello Matt,

Do you have anything to add regarding Altura Mining other than the company is under receivership?

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[Matt Bohlsen](#)

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Author's reply Â»

Re: Altura Mining: Disappointing news for sure. Was a high risk stock due to their high interest rate on their debt.

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What are your thoughts about Altura coming out of receivership?

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Altura mining in trouble. options grim....

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[@spend my cash](#) lol. Plenty of people are up over 200% by this stage.

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[@spend my cash](#) I hear you as I was down a lot with my lithium investments 2018 to early 2020, but I unloaded the Aussie miners in 2019 and put what was left into Ganfeng. Averaged down on LAC.TO, and focussed on other North American miners like PLL, LTHM and ALB and am showing a profit right now in that side of my portfolio. Would have done much better if I'd have put the money where most of the rest of my money is though: QQQ.

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So do I ...

26 Oct 2020, 10:49 AM [Reply](#) 0 [Like](#)



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Aoskam,

I noticed still trading on the OTC PK and I ask my broker to sell my shares there but he said it could take 5 days to settle and I could run the risk to have to buy them back at market price....what are your comments?

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Altura Mining defaulted today 26 october, so all shareholders can say goodbye to their money ...

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Altura sure had news today, Bad news.

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Doesnâ€ˆ t it make sense for \$[LAC](#) and \$[TSLA](#) to get together as Thacker Pass is 200miles from \$[TSLA](#) gigafactory?

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So what happens to SQM which is the largest and lowest cost producer of lithium.

Lithium Mining companies' links with U.S. And Oz politicians 'susceptible to corruption' – report

Transparency International Australia says particular corruption risk in regard to infrastructure approvals in Qld and WA



A report says warns the under-regulated system of political donations can allow special interest groups to attempt to influence policy-making at all levels of government. Photograph: David Gray/Reuters

•
[Gareth Hutchens](#)

[@grhutchens](#)

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04.39 EDT 05.42 EDT

A new report shines a critical light on the links between mining companies, lobbyists and politicians, pointing to the Indian mining giant Adani as an example of how a company with a questionable record overseas can still gain mining approval in Australia.

It warns the political mining complex in Australia's two biggest mining states, Western Australian and [Queensland](#), is "susceptible to corruption" due to key weaknesses in their approvals regimes, including inadequate due diligence investigation into the companies and individuals applying for mining leases.

It also criticises the "revolving doors" of personnel between government and industry broadly, and political donations regimes.

Adani needs Carmichael mine to stave off income crash, report says

Read more

The report, published by Transparency International Australia (TIA), [Corruption Risks: Mining Approvals in Australia](#), was released on Wednesday.

Its authors conducted 47 interviews with experts from government, industry, civil society, academics, Indigenous traditional owners and consultants in Perth and Brisbane to gather its evidence. Its list of key weaknesses in the mining approvals regimes is long.

The researchers says “industry influence” is a corruption risk in Australia, particularly with regard to large infrastructure project approvals in Queensland and WA.

It notes the mining industry has disclosed donations of \$16.6m to major political parties over the past 10 years (2006-07 to 2015-16), and warns the under-regulated system of political donations can allow special interest groups to attempt to influence policy-making at all levels of government.

It highlights the “revolving doors” of personnel between government and industry as a risk in Australia generally.

It points out 191 of 538 lobbyists (35.5%) registered by the Department of the Prime Minister and Cabinet, as of September 2016, were former government representatives.

The researchers also warn government departments involved in the mining approvals process in Queensland and WA do not undertake adequate due diligence into the character and integrity of applicants for mining leases, including companies’ track records overseas, and investigations of their financial capacity do not involve an examination of beneficial ownership to understand who the real owners are.

In Queensland, even though mining proponents are required to provide details of their environmental record, there is no requirement to report non-compliance with environmental law or breaches outside Australia.

The researchers warn that this creates the risk that companies with a history of non-compliance, criminal or corrupt behaviour, a record of environmental damage, or other poor business conduct, such as human rights violations, can operate in Australia.

BHP agrees to rethink its links to Minerals Council of Australia

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“ A number of these factors have arguably been at play in the case of Adani’s Carmichael coalmine,” the report says.

“ In the environmental impact assessment for the Carmichael coalmine, February 2013, the proponent Adani [Mining](#), an Indian multinational corporation, stated that it “ has not been subject to any proceedings under a commonwealth, state or territory law for the protection of the environment or the conservation and sustainable use of natural resources” . Yet there is evidence that Adani has failed to comply with laws and environmental permits in India.

“ An investigation in December 2010 by officials from the Indian Ministry of Environment Protection and Forests into the Mundra port and special economic zone operated by Adani Ports found destruction of mangroves, creek systems and natural seawater flow by reclamation, and development of a township, airport and hospital without the proper environmental records.”

[Guardian Australia reported last month](#) that Adani had been accused in India of fraudulently siphoning hundreds of millions of dollars of borrowed money into overseas tax havens, by inflating invoices for an electricity project in India.

The [Directorate of Revenue Intelligence \(DRI\) file](#), compiled in 2014, mapped out a complex money trail from India through South Korea and Dubai, and eventually to an offshore company in Mauritius allegedly controlled by Vinod Adani, the older brother of the billionaire Adani Group chief executive, Gautam Adani.

Vinod Adani is the director of four companies proposing to build a railway line and expand a coal port attached to Queensland’s vast Carmichael mine project.

The Adani Group said in a statement to the Guardian on behalf of itself, its subsidiaries and Vinod Adani that it “ strongly denies the allegations of overvaluation” .

This week, the ABC’s Four Corners program [highlighted Adani’s troubling environmental record in India](#).

The Institute for Energy Economics and Financial Analysis also warned this week that [Adani’s ambitions in Queensland faced a new risk](#), with the company having to refinance more than \$2bn in debt on the [Abbot Point coal terminal](#) “ more than it paid for the port in 2011.

“ While Australia has systems of transparency and accountability in place, more needs to be done to address transparency of negotiation processes and agreements, including native title parties,” Serena Lillywhite, the chief executive of Transparency International Australia, said.

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Lithium ion E-cigarette ignites fire on flight from Las Vegas to Chicago

Lithium ion E-cigarette ignites fire on flight from Las Vegas to Chicago

Lithium ion E-cigarette ignites fire on flight from Las Vegas to Chicago

Lithium ion Vape pens explode in teen's mouths; injuries resemble results of "high-speed" crash

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A reconstructed computed tomography of the 17-year-old boy's head. (Primary Children's Hospital/The New England Journal of Medicine)

By [The Washington Post](#) |

PUBLISHED: June 20, 2019 at 8:04 am | UPDATED: June 20, 2019 at 8:10 am

By **Allyson Chiu** | **The Washington Post**

When the 17-year-old arrived at Primary Children's Hospital in Salt Lake City, his entire jaw was cracked and a chunk of the bone had been completely shattered. Several of his teeth were missing and there was a hole in his chin.

"That's an injury we see in high-speed motor vehicle crashes," Katie W. Russell, a pediatric surgeon who treated the teenager in March last year, told The Washington Post. "It's a big injury."

Jonathan Skirko, a pediatric ear, nose and throat surgeon who operated on the boy, told The Post the damage looked "kind of like a close-range gunshot wound."

But the teen, whose mother identified him as Austin, wasn't in a car crash, and he didn't get shot. He was using a vape pen when it exploded in his mouth.

The details of Austin's case were published Wednesday in the [New England Journal of Medicine](#) with the goal of raising awareness about the dangers of using e-cigarettes, Russell said.

"At that point, we had no idea that vape pens could cause such a substantial injury," she said. "It takes a serious amount of force to break your jaw and to break it in the way that he did."

The vape pen was supposed to improve Austin's life, his mother, Kailani Burton, told The Post. He had asked her for it last year because he thought it could help him quit smoking. Burton said her son, then 17, assured her that he had done his research and vaping was safe, so she got him the one he wanted "a device from the company VGOD. But even after buying it, Burton couldn't shake a nagging concern: she had heard about e-cigarettes exploding.

"I told him, 'You gotta be careful, these things have happened,'" Burton said. "They get hot."

VGOD did not respond to a request for comment late Wednesday.

On March 26, 2018, about a month after Austin started vaping, Burton had just gotten home from work and was in her bedroom with her husband when the pair suddenly heard a loud pop.

Unsure of the sound's origin, Burton said, she initially thought a circuit breaker might have shorted out. Then her other son burst into the room in a panic.

"He was screaming, "It blew up! It blew up!" Burton said.

Moments later, Austin appeared holding his mouth, able to make only unintelligible, groaning sounds.

"I could see blood in his mouth and a hole in his chin," Burton said.

Burton leaped into action. She handed Austin a towel and bundled him into the car for the quick drive to the hospital in their hometown of Ely, Nevada, a small city about 240 miles north of Las Vegas.

That hospital, however, wasn't equipped to handle Austin's severe injuries, and Burton said she was told she would have to drive more than 200 miles to Salt Lake City, where doctors at Primary Children's Hospital could help.

Before setting off on the five-hour road trip, Austin's mouth was packed with gauze and he was given a vomit bag," Burton said, adding that he got no pain medication.

"I was just scared for him," she said. "I was trying not to cry."

The family arrived at the hospital in Salt Lake City around 1 a.m., where they were met by Russell and her team.

"He had a very swollen lower jaw and lip, a small burn on his lip and a huge cut in his mouth," said Russell, the hospital's trauma medical director. "A two centimeter piece of his jaw was just blown to pieces."

Skirko, the other surgeon who worked on Austin, said he was shocked to learn that an e-cigarette had caused the extensive injuries.

"I've dealt with lots of facial trauma . . . and dealt with some really kind of exotic things like grizzly bear attacks and things like that, but this is one that I had never seen before," he said.

Austin needed two surgeries to repair the damage, Skirko said. During one of the procedures, titanium plates were placed in his mandible to stabilize the bone, and the other flesh injuries were fixed up. Skirko said it was unclear if the hole in Austin's chin had been caused by a piece of the vape pen or a tooth.

Burton said her son, now 18, is "doing really good" and recently graduated from high school. But it easily could have been much worse.

"I thought he could've been dead," she said. "I could've lost him."

At least two people have died as a result of e-cigarette explosions in recent years. Last year, a Florida man was killed after his vape pen blew up, sending pieces of the device flying into his head and starting a small fire in his home. In February, a 24-year-old man's vape pen exploded while he was smoking it and nicked the carotid artery in his neck, causing a fatal stroke.

Between 2015 and 2017, there were about 2,035 explosion and burn injuries caused by e-cigarettes, according to a report published last year in BMJ Journals. Researchers noted that the number was likely an underestimate given the difficulty of accurately tracking incidents.

According to the Food and Drug Administration, which regulates all tobacco products including e-cigarettes, the source of the explosions may be “ battery-related issues.” E-cigarettes use lithium-ion batteries, which the U.S. Fire Administration has deemed “ not a safe source of energy for these devices.”

“ The shape and construction of electronic cigarettes can make them (more likely than other products with lithium-ion batteries) behave like “ flaming rockets” when a battery fails,” the fire agency wrote in a 2017 report.

E-cigarettes are the only consumer product that “ places a battery with a known explosion hazard such as this in such close proximity to the human body,” the report said. “ It is this intimate contact between the body and the battery that is most responsible for the severity of the injuries that have been seen.”

In an statement to The Post early Thursday, an FDA spokesman said the agency “ is concerned about adverse events associated with the use of e-cigarettes, including overheating and exploding batteries.” Beyond educating consumers about how to avoid explosions, the FDA is also “ exploring product standards to address battery issues,” the spokesman said.

Earlier this month, the FDA also released an industry guidance for e-cigarette manufacturers that requires companies to provide detailed information about batteries when submitting new tobacco product applications.

Related Articles

- [Vape pen kills man after exploding in his mouth](#)
- [Eat, toké or vape: California teens not too picky when it comes to pot’s potpourri](#)
- [“ Vaping epidemic” : Health advocates call on Bay Area leaders to adopt tighter rules to protect youth](#)

As the number of young people using e-cigarettes continues to rise, Russell, the pediatric surgeon, stressed the importance of understanding the dangers associated with the devices. According to the Centers for Disease Control and Prevention, 3.6 million middle and high school students used e-cigarettes last year “ an increase of about 1.5 million from 2017. There have been several recent incidents of teenagers being blinded or burned by exploding e-cigarettes, CNN reported.

“ Everyone seems to be vaping,” Russell said. “ It seems like this technology has really taken off, but we didn’t really get adequately educated about the possible risks.”

Austin, however, has sworn off smoking and vaping, his mother said.

“ He just quit,” Burton said. “ He does tell people, “ This is what happened to me. This is what could happen.” “

Lithium ion batteries in Robot started a fire which costs Ocado \$137M

Safety is a massive unaddressed issue in the rapidly evolving automation sector.



By [Greg Nichols](#) for [Robotics](#) |

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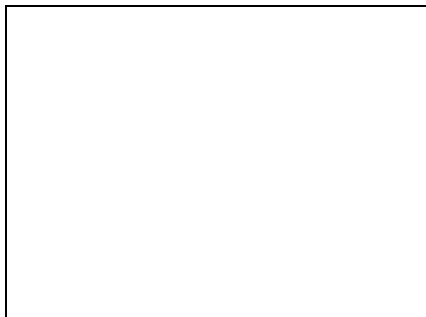
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In February, a robot at an Ocado fulfillment warehouse sparked a massive fire. The warehouse was destroyed, and the British grocer has just revealed the price tag of the damage: \$137M.

The information was released in Ocado's half-year report and was noticed by [Sam Shead in Forbes](#). Ocado, a household name in the UK, is an online grocer that's made an art of home grocery delivery. Like Amazon, the company relies on massive warehouses and has invested heavily in automation to speed up order fulfillment.

Special feature



[AI, Automation, and Tech Jobs](#)

There are some things that machines are simply better at doing than humans, but humans still have plenty going for them. Here's a look at how the two are going to work in concert to deliver a more powerful future for IT, and the human race.

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Last year Ocado [partnered with Kroger to be exclusive fulfiller](#) for the U.S. supermarket giant. It's part of a broader Ocado push to bring its online grocery fulfillment to international markets -- a push driven by technology.

Across the industry, there's a race underway to offer the fastest, most cheapest home grocery delivery. Amazon is the market leader in the U.S. and has maneuvered to secure that footing with its acquisition of Whole Foods, but it's still a fractured market with lots of potential customers up for grabs.

Automation technology in the form of warehouse robots is driving the race, but the logistics of grocery delivery are extremely difficult, with SKUs coming in a staggering range of shapes and sizes and varying temperature requirements. Amazon, which is the undisputed online fulfillment leader, has had to [scale back its grocery delivery operations](#) after seemingly expanding too quickly.

The Ocado fire may be another symptom of companies leaning hard into emerging technologies to expand market share. The official cause of the fire was a faulty battery charging unit, [according to the company in a shareholder meeting](#).

Presciently, Melonee Wise, a robotics pioneer and CEO of Fetch Robotics, drew attention to the looming safety concerns in the automation industry when we spoke at the end of last year. "I honestly hope 2019 is the year that robot safety becomes a top priority, says Wise. "The potential mistakes of one robotics company could set our industry back for years."

Ocado is a cautionary tale. Technology brings speed and efficiency, but automation technologies are evolving faster than protocols can be developed.

The aftermath of the fire has been devastating for Ocado's outlook. The company's losses for the year will reach nearly \$175M.

Long delays at Orlando airport after lithium ion Tesla-Like battery explodes in bag, causing panic and evacuation

An exploding camera battery caused a scare and delays at Orlando International Airport on Friday, Nov. 10, 2017.

Bianca PadrÃ³ Ocasio and [Jerry Fallstrom](#)
[Reporters](#) Orlando Sentinel

[Privacy Policy](#)

Thousands of travelers faced hours of waiting at security checkpoints at Orlando International Airport on Friday night after a camera battery exploded, causing people to panic and the airport to be evacuated.

Shortly after the 5 p.m. incident, passengers were ordered to de-plane and people waiting at their gates were forced to be re-screened through TSA checkpoints.

Hours later, exasperated passengers clogged the terminals, standing in slow-moving lines.

Mike Robinson said he was preparing to get on a flight to Dallas when he heard a loud noise.

“It was pandemonium,” he said. People sprinted past the security checkpoint to take cover.

“Now they’re bringing people out of their gates, off-loading them to be screened again,” Robinson said. “There’s thousands and thousands of people. I look back and I see a sea of people.”

He said at least 10 bomb-sniffing dogs were brought into the terminal.

According to the Orlando Police Department, the incident that prompted the delays was a lithium camera battery that overheated and exploded in the main terminal.

Travelers quickly posted on social media that they had fled the airport and feared for their lives. While rumors circulated online, OPD posted a message on Twitter denouncing any danger.

Authorities said no shots had been fired and there was “no danger to the public.” They said the camera bag was “smoldering.”

Airport spokesman Rod Johnson said the noise was reported shortly after 5 p.m. in front of the security checkpoint for Gates 1-59.

Phil Brown, CEO of the Greater Orlando Aviation Authority, said a full ground-stop was issued at 5:30 p.m. and lasted until 9 p.m.

Terminals A and B were evacuated, and trams were stopped temporarily, he said. The security checkpoints remained closed while authorities investigated the incident.

By 8:45 p.m., all gates had reopened to passengers.

At a press conference Friday night, Brown said 24 flights were canceled and 27 others were diverted. He acknowledged that some passengers will have to book new flights, and others might struggle to find hotel rooms for the night; dozens were left stranded at the terminals Friday. He expects the incident will cause delays overnight and into Saturday morning.

Brown said that people “ self-evacuated” outside the airport and past security checkpoints, which prompted authorities to clear all airport gates and conduct a widespread screen.

He added that some airport staff and TSA agents instructed the crowd to take cover, when the initial explosion created confusion among staff and passengers. OPD has the bag with the explosive camera battery, he said.

An exploding camera battery caused a scare and delays at Orlando International Airport on Friday, Nov. 10, 2017.

Confused travelers waited in long lines to get through security, where posted wait times exceeded two hours.

“ We were taxiing. The pilot comes back and says, “ We gotta go back,” ” said a New York resident who was headed to Westchester, N.Y., on JetBlue.

The man, would not give his name, said: “ I thought it was absurd. Absolutely ridiculous.”

“ They don’t know what they’re doing, in my opinion,” he said, describing the confusion about how to get back through security.

Jon Olafsson, 65, and his wife, Kristin, 61, were on an Iceland Air plane headed back to their native Iceland when they were turned back.

“ It’s just one of those things “ too old to get angry,” Jon Olafsson said. He said the couple had been in Orlando for four weeks on a golfing vacation.

Michael Williams was sitting on a plane that was about to take off for Phoenix when the flight crew ordered all passengers to take their baggage and exit the plane.

He said having thousands of people standing outside the checkpoints was a “ major safety hazard.”

“ This is horribly dangerous,” Williams said.

Brown said that there are always lessons to be learned from emergency situations, and GOAA administrators would be meeting Monday with all the airlines to evaluate the airport’s response.

“ It was difficult to hear “I we tried to get the most salient and necessary information out to the public,” he said.

Giovanna Triassa, 27, an Orlando travel agent, said she was flying to Los Angeles to meet her mother for a cruise.

“ There’s nothing you can do, really,” she said. “ That’s why I did the flight one day before the cruise. I know these things can happen.”

Caitlin Doornbos contributed to this report.

MH370 Was â“ Manipulatedâ“ Off Course by hackers or bad guy, Report Says

By

[Angus Whitley](#) and

[Pooi Koon Chong](#)

- Difficult to attribute sudden turns to system failure: report
- Plane missing since March 2014 is aviationâ“ s biggest mystery

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Malaysia Airlines Flight 370, missing since 2014, was probably steered off course deliberately and flown to the southern Indian Ocean, according to the Malaysian government's [safety report](#) into the disaster.

MH370 vanished on March 8, 2014, en route to Beijing from Kuala Lumpur with 239 people on board. Investigators have never been able to explain why the jet abandoned its route shortly into the flight, traversed Malaysia and then cruised south over the Indian Ocean.

It's difficult to attribute the change in course to any system failure, according to the report released Monday. "It is more likely that such maneuvers are due to the systems being manipulated," the report said.

Experts mapped the Boeing 777's course only after picking through hourly data hookups with a satellite. Extensive sonar searches of remote waters off Australia's west coast failed to locate the wreckage.

Monday's 449-page report offered little to solve modern aviation's biggest mystery -- and stopped short of apportioning specific blame. There's nothing to suggest the plane was evading radar, or evidence of behavioral changes in the crew, it said. Significant parts of the aircraft's power system, including the autopilot function, were probably working throughout the flight, the report said.

"We are unable to determine with any certainty the reasons that the aircraft diverted from its filed planned route," Kok Soo Chon, chief inspector of the MH370 investigation team, told reporters in Putrajaya, outside Kuala Lumpur. "The possibility of intervention by a third party cannot be excluded."

Without the help of cockpit data recorders, search teams could only guess what happened in the flight's final moments. Analysis by the Australian government [suggested](#) MH370 ran out of fuel before plummeting -- at as much as 25,000 feet a minute -- into the water. Other investigators [speculated](#) that a person was at the controls until the very end, gliding the plane into the ocean beyond the furthest limit of any search area.

Monday's report didn't support either theory explicitly, but struggled to come up with a mechanical explanation for the aircraft's deviations.

No Bodies

"The change in flight path likely resulted from manual inputs," it said. Similarly, the plane's loss of communications before veering off track was more likely due to systems "being manually turned off or power interrupted to them" than a malfunction, it said.

A few pieces of wreckage from MH370 did wash up in Africa but no bodies have ever been recovered. A fresh underwater search this year by U.S. exploration company Ocean Infinity [ended](#) without success.

The jet's disappearance produced a slew of safety recommendations aimed at preventing a [repeat](#) of the tragedy.

New aircraft must broadcast their locations every minute when they're in trouble, but only from January 2021. A gradual tightening of requirements starts in November, when airlines must track planes every 15 minutes under regulations adopted by the United Nations' International Civil Aviation Organization.

MH370â€ s cargo included 221 kilograms (487 pounds) of lithium batteries and 4.6 tons of fresh mangosteen fruit, according to its manifest. After extensive tests, Mondayâ€ s report ruled out smoke or fire caused by those goods mixing in the planeâ€ s hold as a cause of the tragedy.

The report documented shortcomings among Kuala Lumpur air traffic controllers: they were too slow to initiate emergency procedures and there was no evidence to suggest they were continuously monitoring radar displays, it said. The report recommended better training to handle emergencies.

â€ With assistance by Adrian Leung, and Yudith Ho

**MORE APPLE LITHIUM ION BATTERIES ARE
BLOWING UP!**

Tampa man says Apple AirPods earphone blew up

By [Ryan Hughes](#)

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ST. PETERSBURG, Fla. (WFLA) — The tiny pieces of Apple AirPods fit into Jason Colon's hand.

The left is intact.

The right is blown apart and charred.

— It's the craziest thing I ever went through, — Colon said.

Colon, of Tampa, was listening to a dance mix at the LA Fitness on 4th Street in St. Petersburg when he noticed something strange.

— And then I saw white smoke start billowing out, — he said.

He left the AirPods on a piece of workout equipment and got help.

When he returned, he was shocked.

— It was already like this. It was already popped. I didn't see it happen, but I mean, it was already fried! You can see flame damage, — Colon said.

He's thankful he thought to remove the wireless AirPods when he sensed trouble.

— I don't know what would've happened to my ear, — Colon said. — But I'm sure since it hangs down, it could've been [my] ear lobe. Ear lobe could've been burnt. —

It's not the first time a popular product has gone up in flames.

In 2016, Samsung recalled the Galaxy Note 7 after some phones caught fire because of a defect in the batteries.

Production stopped later that year.

— This looks like this was the battery, — Colon said when explaining the malfunction to 8 On Your Side.

He isn't exactly sure what happened to the right AirPods, but he's definitely sure others should be warned.

"Just because it happens to me doesn't mean it won't happen again," he said.

An Apple spokeswoman tells 8 On Your Side the company is investigating and will reach out to Colon.

**HOW MANY PEOPLE MUST DIE TO KEEP
ELON MUSK RICH IN PRIVATE JETS?**

[Man Killed After Lithium-ion Vape
Pen Explodes While Inhaling...](#)

[E-cigarette lodged in throat...](#)

[HERE IS A QUICK CAPSULE OF THE
FACTS THAT TESLA MOTORS AND ELON
MUSK WILL DO ANYTHING \(EVEN THE
MOST HORRIBLE THINGS YOU CAN
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FACTS CAN BE PROVEN, WITH
VOLUMINOUS EVIDENCE AND WITNESSES,
IN A JURY TRIAL OR A PUBLIC
CONGRESSIONAL HEARING:](#)

[Lithium ion batteries: Cause wars
in the Congo, Afghanistan and](#)

Bolivia from the corrupt mining deals involved with mining lithium and cobalt; are insider trading-owned by ex-CIA boss Woolsey and DOE Boss Chu; excrete chemicals that mutate fetuses when they burn; destroy your brain, lungs and nervous system when they burn; kill the factory workers who make them; cause Panasonic to be one of the most corrupt companies in the world; poison the Earth when disposed of; can't be extinguished by firemen; poison firemen when they burn; are based on criminally corrupt mining schemes like URANIUM ONE; Have over 61 toxic chemicals in them; come from an industry that spends billions on internet shills and trolls used to nay say all other forms of energy; are insider-trading owned by corrupt U.S. Senators who are running a SAFETY COVER-UP about their dangers. Apple products with

lithium ion batteries have been exploding and setting people on fire; over time the chemical dendrites inside each battery grow worse and increase the chances of explosion as they age - LITHIUM ION BATTERIES BECOME MORE AND MORE LIKELY TO EXPLODE AS TIME GOES ON AND AS THEY AGE; "Bad Guys" have figured out how to make them explode remotely; have their dangers hidden by CNN and MSM because pretty much only the DNC people profit from them; are the heart of Elon Musk's stock market scam. The Obama Administration promised Silicon Valley oligarchs the market monopoly on lithium ion batteries and the sabotage of fuel cells in exchange for campaign financing and search engine rigging; United States Senators that are supposed to protect us from these deadly products own the stock market assets of them so they

protect them and stop the FDA, OSHA, DOT & NHTSA from outlawing them. WRITE YOUR ELECTED REPRESENTATIVE AND DEMAND THAT LITHIUM ION BATTERIES BE MADE ILLEGAL TO SELL! NiCAD and Hundreds of other battery chemistries DO NOT have all of these problems but Lithium Ion batteries get a monopoly because of politician insider trading ownerships. A recent fire on U.S. Highway 101 near Mountain View, CA, burned the driver alive and killed him. In Florida two kids died in a Tesla, burned alive, screaming in agony. A man died in agony in a Tesla crash in Malibu that set Malibu Canyon on fire. A young woman, at the start of life, and her boyfriend were burned alive in their crashed Tesla. There are many more deaths and crashes than you have heard about. The deaths and the cover-ups are endless. Senators Dianne

Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or it's suppliers and mining companies and they cover-up and halt investigations and laws designed to save the public. They, and their crony's, spend over \$1B a year to shill and troll hype about lithium ion batteries and cover-up the dangers. Lithium ion EVs are more prone to battery fires. Experts say that their lithium-ion batteries can fuel hotter fires that release toxic fumes and are more difficult to put out. Lithium ion fires keep reigniting which explains why it takes so long and requires copious amounts of water or foam (it is an electric fire, after all) to smother the flames. Tesla employee Bernard Tse and his team warned Elon Musk about these dangers in 2008 and they got fired and/or warned to "say nothing" by

Musk. Three top Tesla engineers died in a plane crash next to Tesla offices in San Carlos after two of them agreed to become whistle-blowers.

Elon Musk exists because he bribed DNC politicians and Senators Feinstein, Reid, Boxer, Harris, Clinton and Pelosi to give him free taxpayer cash and government resources from the Dept. of Energy and the Calif treasury. DOE has been covering-up organized crime activities at DOE in which DOE funds are being used as a slush-fund to pay off DNC campaign financiers and to pay for CIA/GPS Fusion-Class attacks on Silicon Valley business competitors of those DNC campaign financiers who DOE staff share stock market holdings with. Elon Musk is a criminal, a mobster, an asshole, a bald fake-hair wearing, plastic

surgery-addicted, douchebag, woman-abusing, sex addicted, tax evader. Musk exploits poor people and child slaves in the Congo and Afghanistan to mine his lithium and Cobalt. Musk spends billions per year to hire Russian trolls, fake blogger fan-boys and buy fake news self-aggrandizement articles about himself. Musk thinks he is the 'Jesus' of Silicon Valley. Fake News manipulator Google is run by Larry Page and Larry is Musk's investor and bromance butt buddy. Musk uses massive numbers of shell companies and trust funds to self-deal, evade the law and hide his bribes and stock market insider trading. A huge number of Tesla drivers have been killed; pedestrians and oncoming drivers have also been killed, and Musk covers it up. The DNC and the MSM refuse to allow any articles about Musk's crimes to be printed because

they benefit from Musk's crimes.
Musk has been professionally
diagnosed as a 'psychotic
narcissist.'A 'Silicon Valley
Mafia; cartel of frat boy sociopath
venture capitalists like Steve
Jurvetson, Tim Draper, Eric
Schmidt, et al; threaten those who
do not support the cult of Tesla or
their political candidates. In
EVERY blog that you read that
mentions 'Musk', at least 1/3 of
the comments have been placed their
by Musk's paid shills. Musk holds
the record for getting sued for
fraud by his investors, wives,
former partners, employees,
suppliers and co-founders. Elon
Musk has gone out of his way to
hire hundreds of ex-CIA staff and
assign them to "dirty tricks teams"
to attack his competitors and
elected officials who Musk hates.
Musk never founded his companies.
Musk's "Starlink" satellites are

domestic spy and political manipulation tools - never get your internet from one. Musk stole Tesla in a hostile ownership take-over from Marty the true inventor of the Tesla. The same kind of EMF radiation proven to cause cancer from cell phones exists in massive amounts in a Tesla. Musk can't fix a car or build a rocket and has almost no mechanical skills. If you pull a report of every VIN# of every Tesla ever built and cross reference that with insurance, repair and lawsuit records you will find that the "per volume" fire, crash, death and defect rate is THE WORST of any car maker in history! Musk is a lying con artist and partners with Goldman Sachs to rig the stock market. Sachs has a dedicated team of 18 men who rig stocks and valuation bumps for Musk. Over 1000 witnesses can prove every one of those claims in any

live televised Congressional hearing! Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or it's suppliers and mining companies. That is why they criminally help cover-up investigations of Tesla! All of this was reported, in writing, to James Comey, Patricia Rich and David Johnson at the FBI.

The DNC bosses own the stock in lithium, Solar and EV markets and use kickbacks from those markets (Especially via convoluted campaign finance laundering via Elon Musk) to finance the DNC. The DNC bosses use character assassination as their main political tool against any member of the public who speaks out against their felony stock market scams and PizzaGate-like scandals. The Harvey Weinstein

reports by Ronan Farrow show that they have teams of hired goons that they pay to destroy people's lives. They use Black Cube, Mossad, In-Q-Tel, Stratfor, Gawker Media, Gizmodo Media, Media Matters, David Brock, Sid Blumenthal, NY Times, Google servers, Facebook servers, Podesta Group, Perkins Coie, Covington & Burling and a host of "assassins". It should be a felony to hire character assassins in the USA. DEMAND A LAW and DEMAND the termination of these attack services. IE: Gawker and Gizmodo Media sets-up the attack stories and, in paid partnership with Google, Google kicks their attack links around the globe, in front of 8 Billion people, forever. Google locks the attack articles of its enemies on the front top search results of Google search results forever, on purpose! That is why Google is being terminated in the

largest, most well resourced
anti-corruption public service
take-down in history!

Merrill Lynch Caught Criminally Manipulating Precious And Rare Earth Metals Market "Thousands Of Times" Over 6 Years



by [Tyler Durden](#)

Remember when it was pure tinfoil-hat conspiracy theory to accuse one or more banks of aggressively, compulsively and systematically manipulating the precious metals - i.e., gold and silver - market? We do, after all we made the claim over and over, while demonstrating clearly just how said manipulation was taking place, often in real time.

Well, it's always good to be proven correct, even if it is years after the fact.

On Tuesday after the close, the CFTC [announced](#) that Merrill Lynch Commodities (MLCI), a global commodities trading business, **agreed to pay \$25 million to resolve the government's investigation into a multi-year scheme by MLCI precious metals traders to mislead the market for precious metals futures contracts traded on the COMEX (Commodity Exchange Inc.).** The announcement was made by Assistant Attorney General Brian A. Benczkowski of the Justice Department's Criminal Division and Assistant Director in Charge William F. Sweeney Jr. of the FBI's New York Field Office. In other words, if the Merrill Lynch Commodities group was an individual, he would have gotten ye olde perp walk.

As MLCI itself admitted, **beginning in 2008 and continuing through 2014, precious metals traders employed by MLCI schemed to deceive other market participants by injecting materially false and misleading information into the precious metals futures market.**

They did so in the now traditional market manipulation way - by placing fraudulent orders for precious metals futures contracts that, at the time the traders placed the orders, they intended to cancel before execution. In doing so, the traders intended to "spoof" or manipulate the market by creating the false impression of increased supply or demand and, in turn, to fraudulently induce other market participants to buy and to sell futures contracts at quantities, prices and times that they otherwise likely would not have done so. **Over the relevant period, the traders placed thousands of fraudulent orders.**

Of course, since we are talking about a bank, and since banks are in charge of not only the DOJ, and virtually every other branch of government, not to mention the Fed, nobody will go to jail and MLCI entered into a non-prosecution agreement and agreed to pay a combined - and measly - \$25 million in **criminal** fines, restitution and forfeiture of trading profits.

Under the terms of the NPA, MLCI and its parent company, Bank of America, have agreed to cooperate with the government's ongoing investigation of individuals and to report to the Department evidence or allegations of violations of the wire fraud statute, securities and commodities fraud statute, and anti-spoofing provision of the Commodity Exchange Act in BAC's Global Markets' Commodities Business, whose function is to conduct wholesale, principal trading and sales of commodities. Laughably, MLCI and BAC also agreed to enhance their existing compliance program and internal controls, where necessary and appropriate, to ensure they are designed to detect and deter, among other things, manipulative conduct in BAC's Global Markets Commodities Business.

Translation: it will be much more difficult to catch them manipulating the market next time.

The Department reached this resolution based on a number of factors, including MLCI's ongoing cooperation with the United States - **which means the DOJ must have had the bank dead to rights with many traders potentially ending up in jail** - and MLCI and BAC's remedial efforts, including conducting training concerning appropriate market conduct and implementing improved transaction monitoring and communication surveillance systems and processes. Translation - no longer boasting about market manipulation on semi-public chatboards.

The Commodity Futures Trading Commission also announced a separate settlement with MLCI today in connection with related, parallel proceedings. Under the terms of the resolution with the CFTC, MLCI agreed to pay a civil monetary penalty of \$11.5 million, along with other remedial and cooperation obligations in connection with any CFTC investigation pertaining to the underlying conduct.

As part of the investigation, the Department obtained an indictment against Edward Bases and John Pacilio, two former MLCI precious metals traders, in July 2018. Those charges remain pending in the U.S. District Court for the Northern District of Illinois.

This case was investigated by the FBI's New York Field Office. Trial Attorneys Ankush Khardori and Avi Perry of the Criminal Division's Fraud Section prosecuted the case. The CFTC also provided assistance in this matter.

Oh, and for anyone asking if they will get some of their money back for having been spoofed and manipulated by Bank of America, and countless other banks, into selling to buying positions that would have eventually made money, the answer is of course not.

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NYPD Pulls Nearly 3,000 Lithium Ion Body Cameras After The Lithium Ion Batteries In Them Start Smoking And Exploding

An officer was wearing one of the cameras Saturday night when he noticed it was smoking and took it off, the NYPD said

A type of police body cam has been taken yanked by the NYPD after one officer reported it exploded. The Miami Police Department had a similar problem. Marc Santia reports.

The NYPD has suspended the use of a certain kind of body camera "effective immediately" after one of them exploded.

A police officer was wearing a Vievu model LE-5 body-worn camera when he noticed that it was smoking and took it off, the NYPD said.

The officer wasn't injured, but the department has asked any officers that have been using LE-5 cameras to bring them back to their commands.

The NYPD has suspended the use of a certain kind of body camera "effective immediately" after one of them exploded.

A police officer was wearing a Vievu model LE-5 body-worn camera on a "midnight tour" on Saturday night when he noticed that it was smoking and took it off, the NYPD said.

Man Detained by ICE After Army Pizza Delivery Arrested Again

Not long after, the camera exploded, according to the NYPD. No one was injured by the explosion, the department said.

“ The incident revealed a potential for the battery inside the camera to ignite,” the NYPD said in a statement.

Axon, the parent company of Vievu, said it was working closely with the NYPD to investigate.

"Officer safety is of the utmost importance to Axon," the company said in a statement. "We will do whatever is necessary to quickly and safely resolve this situation.”

Of the 15,500 body-worn cameras deployed around the city, 2,990 are LE-5 cameras, the NYPD said.

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Those officers will not be wearing body cameras in the interim, the NYPD said.

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[Never leave the battery in your phone. US cell carriers are selling access to real-time phone location data\(zdnet.com\)](http://zdnet.com)

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- [discuss](#)

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- **OBAMA GAVE HIS SILICON VALLEY OLIGARCHS THE RARE-EARTH METALS EXCLUSIVES IN EXCHANGE FOR WEB RIGGING HIS ELECTION AND NOW IT IS BITING THEM IN THE BUTT**

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- by:

[Dan Maloney](#)

It seems these days that the news is never good. Speaking from experience, thatâ€ s really nothing new; thereâ€ s always been something to worry about, and world leaders have always been adept at playing the games that inevitably lead to disturbing news. Wars always result in the very worst news, of course, and putting any kind of modifier in front of the word, like â€ Coldâ€ or â€ proxyâ€ , does little to ameliorate the impact.

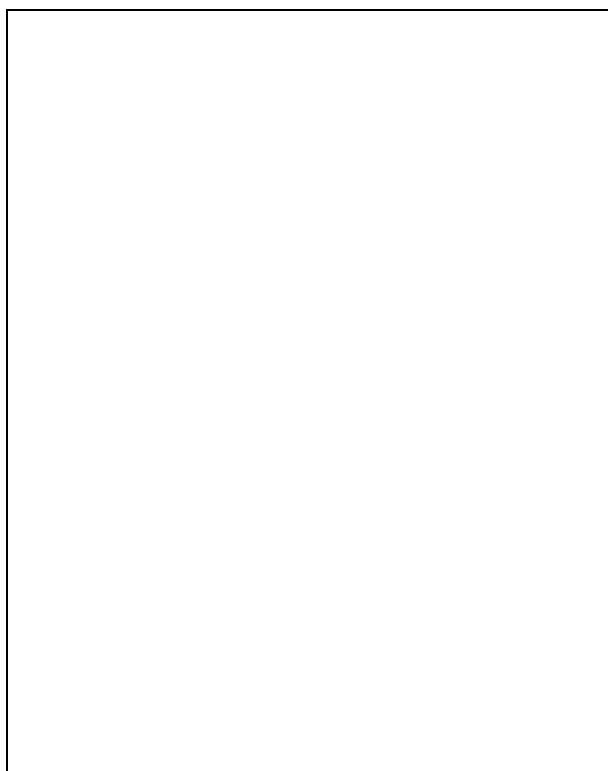
And so the headlines have been filled these last months with stories of trade wars, with the primary belligerents being the United States and China. Weâ€ ve covered a bit about how tariffs, which serve as the primary weapons in any trade war, have impacted the supply of electronic components and other materials of importance to hackers.

But now, as the trade war continues, a more serious front is opening up, one that could have serious consequences not just to the parties involved but also to the world at large. The trade war has escalated to include rare earth metals, and if the threats and rumors currently circulating come to fruition, the technologies and industries that make up the very core of modern society will be in danger of grinding to a halt, at least temporarily.

Bottom Line: Not So Rare

So what even are rare earth metals, and whatâ€ s so rare about them? To start with, the rare earth elements occupy the lanthanide series on the periodic table â€ the top row of the two that are often split off the main table, a lot like Alaska and Hawaii are transported to the Gulf of Mexico in maps of the United States. The fifteen lanthanides are joined by two metals, scandium and yttrium, from the third periodic series, mainly because they are all often found together in mineral deposits and because they have similar properties.

Leaving out the radioactive rare earth element promethium, of which there is barely half a kilogram total occurring naturally in the entire Earth's crust, the 16 other rare earth metals are not even remotely rare. Cerium, a soft silver-gray metal, is actually more abundant than copper in the Earth's crust, and there's enough of it that it's been in common use in industry, primarily as a catalyst, in ceramics, in lighter flints, and as a coating for gas lamp mantles, since the 1800s. Even the rarest of the rare earth metals is 200 times more abundant than gold.



["Big magnet on a yellow seat" by daveypea](#) is licensed under [CC BY-NC-SA 2.0](#)

The rare earth elements – again, with the exception of promethium, which is formed by radioactive decay of uranium – are all gifts from our galactic neighbors. They were forged in the furnaces of nearby stars and blown into space by supernovae, to collect as the dust that would eventually condense into our rocky world. They've collected in deposits of various minerals sprinkled around the world, from the Scandinavian peninsula where scandium gets its name, to South Africa, Brazil, Russia, California, and southern China. Rare earth elements have even been found in abundance in the mud at the bottom of the Pacific Ocean, apparently belched up from the Earth's interior by deep-sea hydrothermal vents.

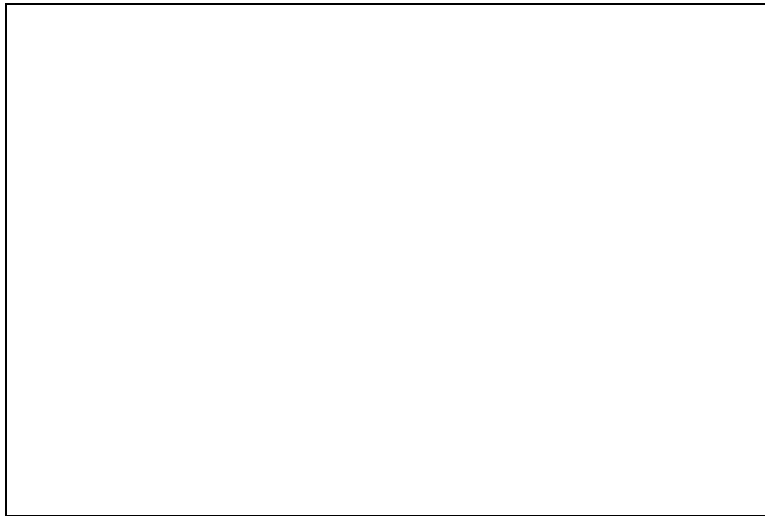
The rare earth elements are all metals and share many of their useful properties, like being highly conductive, malleable, and ductile. That means they can be alloyed with other more common metals, lending certain properties to the alloy. Many of the rare earth elements also have catalytic properties, leading to their use in industrial chemical processes. The rare earths also tend to form brightly pigmented oxides thanks to their electronic structure, making them common components of pigments and dyes.

But perhaps the most important use for rare earth elements today is in powerful, lightweight magnetic alloys. Rare earths like neodymium and samarium are ferromagnetic, meaning they can be turned into permanent magnets. Pure rare earth metals lose their ferromagnetic properties at a fairly low temperature, but when alloyed with other ferromagnetic elements such as cobalt and iron, they form extremely powerful permanent magnets thanks in part to the unpaired electrons present in their outermost orbital shell.

The Catch

While rare earth metals are not particularly rare, they also tend not to be very concentrated. Even the richest deposits of rare-earth ores still contain only a small amount of each metal, and generally multiple metals with very similar properties are found in the same ore. So while finding rare earth ores is easy, refining commercially viable amounts of the stuff from the vast amount of overburden is no mean feat.

Whatâ€™s worse is that not every deposit has the most useful rare earths, which tend to be the heavier elements. The richest deposits are found in mines in China, which currently supplies 100% of the worldâ€™s heavy rare earths, such as dysprosium, which is needed for the rare-earth magnets in hard disk drives among other things. China also has built out a vast value-add chain for its rare earth, from refining the raw ores to finished metals and oxides to turning them into finished products. When you buy anything with a rare earth element in it, chances are good that it came from China.



Baiyunbo Mine, from satellite. NASA

With rare earth elements, all roads lead to China, and that is the crux of the current trade dispute. Rare earth elements have become so integral to so many technologies that entire industries could be destroyed if China were to limit exports or enact tariffs on them. As a result, China appears to have the upper hand in this matter â€” at least for now.

China is the worldâ€™s rare-earth supermarket not just because of its rich mineral deposits but also because of its somewhat relaxed environmental regulations. Refining and separating rare earths are dirty processes involving a lot of harsh chemicals and generating vast amounts of waste. Other rare earth mines, like the Mountain Pass Mine in California that once supplied most of the worldâ€™s finished metals and oxides, were shut down by environmental restrictions that started to make them economically unfeasible.

Reduce, Reuse, Recycle

Mountain Pass, however, is seeing a renaissance. Bought out of bankruptcy in 2017, Mountain Pass resumed mining and concentrating rare earth ores in 2018. They currently ship the concentrate to China for refining, but are tooling up for refining on site, and claim that theyâ€™ll be fully self-sufficient from Chinese refiners by 2020. Whether this leads to a full value-add chain outside of China remains to be seen, but at least it would mean that the world would have an alternative to China for refined rare-earth metals and their oxides.

Thereâ€™s also hope coming from other mining industries. As mentioned above, rare earths are not especially rare, and almost anything mined anywhere produces tailings that have significant amounts of rare earth ores. Itâ€™s not commercially viable to recover them, though, and so most of those valuable minerals go right back

into the ground, or get washed away when the primary ore from the mine is processed. That's the case with the coal mines of Appalachia, where acid wastewater from coal processing has been found to contain recoverable amounts of rare earth elements. A pilot program is currently underway, and if it pans out, tailings and waste from coal mines, iron mines, and pretty much any other hole in the ground may someday produce a valuable side product that can alleviate the current rare earth crunch.

Rare earth metals have become indispensable, and any modern economy needs a steady supply to operate. The economic forces that created the current supply pinch will surely be the same forces that dictate the eventual

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66 thoughts on â€‹ Rare Earth Metals Caught in Trade Warâ€‹

1. **Ren** says:

[June 4, 2019 at 7:17 am](#)

Here is an article about an island in Sweden that has 4 elements named after it, and 3 other rare earths discovered there.

http://www.slate.com/articles/health_and_science/elements/features/2010/blogging_the_periodic_table/ytterby

[Report comment](#)

[Reply](#)

1. **Kevin Kessler** says:

[June 4, 2019 at 7:52 am](#)

Interesting article, thanks.

[Report comment](#)

[Reply](#)

2. **2ftg** says:

[June 4, 2019 at 10:11 am](#)

Ytterby has the best name. â€‹ The village in the middle of nowhereâ€‹ , if roughly translated.

[Report comment](#)

[Reply](#)

1. **M Barland** says:

[June 4, 2019 at 6:55 pm](#)

Theyâ€™re very literal with their names in that part of the world. I always liked Longyearbyen. Literally â€‹ long year town.â€‹

[Report comment](#)

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1. **Peter Neilson** says:

[June 5, 2019 at 6:51 am](#)

Yes, literally, but itâ€™s named after John Munro Longyear of Michigan.

[Report comment](#)

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2. **Luke** says:

[June 5, 2019 at 7:43 am](#)

Thereâ€ is a letter of the alphabet in Swedish thatâ€ s written Å and pronounced more or less like a cross between â€ ohâ€ and â€ ughâ€ .

The letter Å is also a word, meaning â€ islandâ€ . Another word for â€ hayâ€ is spelled â€ hÅllâ€ , and the word for â€ maidenâ€ is â€ mÅllâ€ . Thereâ€ s also â€ Ålldeâ€ which is an adjective meaning â€ desolateâ€ . So the poem goes:

Å . Å . HÅll Åll. Å de Ålls mÅll.

Said out it sounds like a neanderthal version of Swedish Chef.

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[Reply](#)

2. **Johan Carlsson** says:

[June 5, 2019 at 11:43 am](#)

And if exactly translated it means â€ Outer Villageâ€

[Report comment](#)

[Reply](#)

3. **Ren** says:

[June 5, 2019 at 8:43 am](#)

Thanks for all of your responses!

They have been enlightening and entertaining!

[Report comment](#)

[Reply](#)

2. **Ostracus** says:

[June 4, 2019 at 7:34 am](#)

<https://www.theverge.com/2019/5/23/18637071/rare-earth-china-production-america-demand-trade-war-tariffs>

Plus

<https://investingnews.com/daily/resource-investing/critical-metals-investing/rare-earth-investing/rare-earth-pro>

Point being we could get whatâ€ s needed from friendly countries, but just not as cheap as China.

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[Reply](#)

3. **Cbob** says:

[June 4, 2019 at 8:00 am](#)

Thank you for the informative and hysteria filled article. I eagerly await entire industries grinding to a halt.

[Report comment](#)

[Reply](#)

1. **Ostracus** says:

[June 5, 2019 at 7:29 pm](#)

Grinding no. Costing more? Yes.

<https://www.houzz.com/magazine/heres-why-kitchen-and-bath-renovations-are-costing-more-stsetivw>

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4. **Doug Coulter** says:

[June 4, 2019 at 8:02 am](#)

Hmmm, for years, the story I heard was that pretty much all rare earth ores had lots of thorium in them and the EPA + NIMBY basically made it impossible to run a mining/extraction operation due to the radioactive tailings along with the usual pollution from chemical processes used for difficult to separate elements.

When I did stock trading, there was great excitement for a little while about an American mine and refiner â€” long gone, as the Chinese utterly clobbered it on prices due to our regulations.

Not passing judgement, just reporting what I remember from that time.

<https://en.wikipedia.org/wiki/Molycorp>

https://www.google.com/search?q=Rare+Earth+ores+and+thorium&gs_lvs=1#tts=0

Wonder why the author skipped this pretty widely-known batch of issues?

[Report comment](#)

[Reply](#)

1. **Elliot Williams** says:

[June 5, 2019 at 4:57 am](#)

He did mention that the US has rare earths in the ground, but that extracting them was too environmentally unfriendly, so that business is done in China under more environmental-catastrophe-friendly policies.

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1. **Winston** says:

[June 5, 2019 at 7:24 am](#)

The US is rich with rare earth ores. They are also the byproducts of other refining processes like that involved in producing iron. Itâ€™s only the COST of their extraction in the US due to the cost of the handling and disposal of radioactive thorium usually present with the rare earth elements that has stupidly led to Chinaâ€™s monopoly. They can do it cheaper because they will dump anything anywhere, something I seriously hope comes back to really bite them in the ass some day (10% of the air pollution in the US is from China and about that concern about plastics in the ocean, 3.53 million metric tons of plastics are dumped into the ocean by China every year. Indonesia is in second place with 3.2 million while the US contributes 0.11 million.).

The US could have all of the domestically produced rare earth metals it could ever want nearly overnight, just at a higher cost.

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1. **mredmon** says:

[June 6, 2019 at 6:05 pm](#)

Sounds like we need a bunch of nuclear reactors that run on thorium. 2 birds, 1 stone.

[Report comment](#)

[Reply](#)

5. **Douglas L Coulter** says:

[June 4, 2019 at 8:11 am](#)

Search google for “ Rare earth ore and thorium” and wikipedia for “ moly corp” for more. Many people sounded the alarm about letting China have the whole market a decade or more ago.

[Report comment](#)

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1. **Wolfgang Black** says:

[June 4, 2019 at 4:46 pm](#)

yet thorium could be used for producing electricity in nuclear power plants better than the currents ones we have”.

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[Reply](#)

1. **Steve** says:

[June 5, 2019 at 6:30 pm](#)

no

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6. **CW** says:

[June 4, 2019 at 8:19 am](#)

This bow down to China or else must be new generation thing. No thanks. The world can do without human rights abusers. And the idea that the USA is incapable of mining some dirt is garbage. Why does this site kowtow to China? Serious question.

[Report comment](#)

[Reply](#)

1. **Miroslav** says:

[June 4, 2019 at 11:54 am](#)

Ummm â€œ US corporations have moved to China to earn more money.
And now, kid in the body of an adult is trying to reverse the 30 years policy in short span of time.

In short, blame US system of capitalism at all costs.

â€œ Money and the power, power and the money, minute after minute, hour after hourâ€œ

[Report comment](#)

[Reply](#)

1. **Jake** says:

[June 4, 2019 at 12:14 pm](#)

At least when it comes to rare earths, we moved to China due to the lack of environmental protections. Donâ€™t blame capitalism; blame short sighted consumers who still want their new iPhone, but want to stay ignorant about the toll on the environment (that they claim to love) it takes.

[Report comment](#)

[Reply](#)

1. **NachtRitter** says:

[June 4, 2019 at 5:49 pm](#)

Still comes down to capitalismâ€™s path of lowest cost in order to receive the greatest profitâ€™s

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1. **Luke** says:

[June 5, 2019 at 7:53 am](#)

China has an extensive system of export subsidies where they actively support the outsourcing companies out of their own pockets (tax). Itâ€™s a system where the Chinese public is paying the state to export goods to the west, and the state elites pocket the profits. Other effects include artificially controlling the value of Yuan in the financial markets to keep the exchange rates favorable for Chinese exports. Then thereâ€™s the willful ignorance of environmental issues.

Capitalism is to blame about as much as the law of gravity is to be blamed for floods â€œ the market goes where the money is just as water flows downhill.

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2. **tekkienneet** says:

[June 4, 2019 at 12:00 pm](#)

Actually it is the US threatening other countries e.g. Canada, Mexico, Iran, Japan, Europe around with their unilateral trade war. They are already starting another tariff with Mexico

before the ink on the recent treaty dries.

So far China is the one that is standing up to them.

You might want to learn the facts.

[Report comment](#)

[Reply](#)

1. **Jake** says:

[June 4, 2019 at 12:18 pm](#)

If you think this trade war is just starting, you are the one that needs â€˜learn the facts.â€™ This war has been going for decades and the middle class of the USA has been on the losing end for nearly that long. Trump offered a level playing field, no tariffs in, no tariffs out, and that offer was met with what amounted a stunned Pikachu meme. It is easy to look at the kid in the class that has new found confidence as a â€˜bullyâ€™ but from a different perspective, maybe they are just making things right.

[Report comment](#)

[Reply](#)

1. **W** says:

[June 4, 2019 at 8:39 pm](#)

Dude put the koolaid down.

[Report comment](#)

[Reply](#)

1. **Jake** says:

[June 5, 2019 at 9:09 am](#)

What koolaid?

[Report comment](#)

2. **tekkienneet** says:

[June 4, 2019 at 2:03 pm](#)

<https://www.cnn.com/2019/06/04/in-the-us-china-trade-war-here-are-the-economies-that-are->

>That tariff fight has resulted in the U.S. and China importing fewer goods from each other, especially products subject to higher levies, said Nomura. In addition to Vietnam, the other major beneficiaries from the trade war are Taiwan, Chile, Malaysia and Argentina, the bank said.

US is not â€˜winningâ€™ nor are the middle class winning. They are the one paying for inflation. tariff is paid by the consumers that buys import, not the originating countries. The 1% owning that out sourced the manufacturing isnâ€™t going to be paying for it.

The jobs arenâ€™t coming back. At very low unemployment rate, there wonâ€™t

anyone taking new jobs. There might be some immigrants (legal or illegal) that would do it, but US is not doing that.

As to learning about the facts, you need to do some actual research and quote your sources. I did mine.

[Report comment](#)

[Reply](#)

1. **CW** says:

[June 4, 2019 at 6:25 pm](#)

Straight from the politburo! I seriously wonder if you understand the USA at all. Unemployment stats are not on your side.

[Report comment](#)

[Reply](#)

3. **tekkienneet** says:

[June 4, 2019 at 2:12 pm](#)

FYI:

<https://www.marketwatch.com/story/trade-wars-cost-us-stock-market-5-trillion-so-far-estimate>

>The U.S. stock market has left \$5 trillion on the table as trade tensions over the past 17 months contributed to an effectively sideways trade, Deutsche Bank estimated on Friday.

[Report comment](#)

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1. **Jake** says:

[June 5, 2019 at 9:24 am](#)

Good.

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[Reply](#)

4. **CW** says:

[June 4, 2019 at 3:08 pm](#)

We arenâ€ˆ t playing games anymore. And to lump Canada and Europe in with a country that has 1 million people in concentration camps is rich to say the least.

[Report comment](#)

[Reply](#)

1. **Miroslav** says:

[June 5, 2019 at 6:58 am](#)

USA? 2.2 million in prison.

https://en.wikipedia.org/wiki/Incarceration_in_the_United_States

I see your point, you want to restore US manufacturing. That is a noble goal. But for this to be effective, you would need to do 3 things:

1. Tax the rich corporations (no \$0 taxes on Amazon and Apple) and use that money to rebuild the manufacturing
2. Introduce not 10 or 25%, but 200-300% import duties, to protect your manufacturers
3. Stop wasting money on overseas wars. MIC can switch over to healthcare, infrastructure and civilian manufacturing.
4. Profit!

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[Reply](#)

1. **Ren** says:

[June 5, 2019 at 7:29 am](#)

â€œ MICâ€œ

Military Industrial Complex?

[Report comment](#)

5. **makomk** says:

[June 5, 2019 at 6:50 am](#)

Actually, thatâ€™s not true when it comes to using control over the rare earth supply as a weapon. One of the ways China â€™ built out a vast value-add chain for its rare earthâ€™ is that, a few years ago, they cut off the supply of rare earth metals to the rest of the world â€™ because theyâ€™ d driven other sources out of business, non-Chinese manufacturers of things like neodymium magnets couldnâ€™ t get the raw materials they needed and were driven out of business. Then, once theyâ€™ d dealt a crippling blow to those manufacturers but before sites like Mountain Pass could reopen and provide an alternative, they reopened their supplies to the rest of the world and ensured there was no way other suppliers could find enough of a market to survive.

[Report comment](#)

[Reply](#)

3. **jake** says:

[June 4, 2019 at 12:27 pm](#)

Many of the authorâ€™s on this site have a cognitive dissidence issue that is so prevalent in modern western society. They want all sorts of new widgets and tech, and they want it for next to nothing, so they are OK with pollution and human rights abuses (as long as they donâ€™ t have to be witness to it). They tweet about climate change on their new chocked-full-O-rare-earths PC and text their friends on their FoxCon made iPhones links to â€™ newsâ€™ articles on threats to civil rights in the US.

[Report comment](#)

[Reply](#)

4. **Steve** says:

[June 5, 2019 at 6:32 pm](#)

Can do without HR abusers? Seriously? What would we do without the USA? They can claim

a lot, but certainly not having a clean slate on HR issues, particularly in countries that their military visits.

[Report comment](#)

[Reply](#)

7. **Severe Tire Damage** says:

[June 4, 2019 at 8:21 am](#)

Mountain Pass. Shut down by California environmental regulations due to trace amounts of Thorium in mine tailings and/or waste rock. Good to hear it is coming on line again.

[Report comment](#)

[Reply](#)

1. **Ostracus** says:

[June 4, 2019 at 1:40 pm](#)

Get those Thorium reactors started.

https://en.wikipedia.org/wiki/Liquid_fluoride_thorium_reactor

[Report comment](#)

[Reply](#)

2. **Will Emite** says:

[June 4, 2019 at 5:13 pm](#)

Yes .The US has one of the biggest REE deposits in the world .Kind of bad luck itâ€ s not a few miles east in Nevadaâ€i.

[Report comment](#)

[Reply](#)

8. **daveboltman** says:

[June 4, 2019 at 9:05 am](#)

When I buy a new car battery, I have to either return the old one, or pay a lead deposit. The same sounds like a good system for recycling rare-earth metals in hard-drive magnets. Return your old hard-drive when buying a new one (or new laptop containing a hard-drive), or pay a REM deposit. All the magnets I have on my fridge right now would be worth a fortune.

[Report comment](#)

[Reply](#)

1. **alfcoder** says:

[June 4, 2019 at 9:45 am](#)

itâ€ s a good idea, but maybe the solution would be that we wonâ€ t need too much of the rare-earth magnets, i mean for the hard-drives, maybe we will have some big ssds and for the e-car industry it is already free from magnets, ok for the wind-turbines there is a real need for the magnets, but to be honest we are far better with nuclear-power than the stupid landscape ruining wind-turbines :)

[Report comment](#)

[Reply](#)

1. **Martin** says:

[June 5, 2019 at 1:08 am](#)

For wind turbines the reason for the use of RE magnets is the same as for E-cars: Better efficiency. You can build both without the magnets, but they are better with permanent magnet motors/generators.

[Report comment](#)

[Reply](#)

2. **Jan** says:

[June 4, 2019 at 10:04 am](#)

Interesting conceptâ€”I yet I expect that the solid state drives are taking over BEFORE hard-drive-magnet recycling acts are becoming a fact. But seriously, why magnets, in Europe we are expected to return our old devices to the same store as where we buy the new one. And the store is required to take it in and send it to the recycling center. Though in practice people are not always buying new stuff because old stuff breaks, so there are always the recycling centers where you can bring your old appliances top have them recycled.

The problem isâ€”these recycling centers look like a paradise to any hacker/maker/builder, the most beautiful parts are scattered around ready for disassembly. Yet nobody is allowed to take stuff home! So all the pretty motors, nice cabinets or just cool old stuff is destined for pure destruction (they call it recycling). Dismantling stuff so that â€”weâ€” (the hackers/the builders/the makers) cannot use it sounds waste full to me. So knowing this make me really feel sad when I need to pay extra just to â€”enableâ€” the recycling process everytime when I buy something new.

[Report comment](#)

[Reply](#)

1. **Ostracus** says:

[June 4, 2019 at 11:05 am](#)

You make it sound like you donâ€”t have a Craigslist.

[Report comment](#)

[Reply](#)

1. **Martin** says:

[June 5, 2019 at 1:11 am](#)

This is probably some advertisement site, where you can sell used stuff (or give it for free). This is a lot of effort for stuff I just want to get rid off.

[Report comment](#)

[Reply](#)

1. **Ren** says:

[June 5, 2019 at 7:33 am](#)

On Craigslist many of the Free items that are posted, are left out on

the curb.

The post just notifies interested people that it is available.

Iâ€m not sure, but it is similar to kijii (sp?) in other countries.

[Report comment](#)

2. **Steve** says:

[June 5, 2019 at 6:33 pm](#)

Let the money for their coffee jar speak!

[Report comment](#)

[Reply](#)

9. **iegjaa** says:

[June 4, 2019 at 9:17 am](#)

There is a massive uranium deposit near HaÅ ki city in Polish Peopleâ€™s Republic, unfortunately it canâ€™t be mined because itâ€™s â€œ Nature 2000â€ zone.

[Report comment](#)

[Reply](#)

1. **CKnopp** says:

[June 4, 2019 at 10:03 am](#)

Sounds like a job for The Boring Company. Start the tunnel in unprotected space, get 200 feet down, and tunnel under the surface to mine or pump oil.

Be sure to send them to Anwar when youâ€™re done with them.

[Report comment](#)

[Reply](#)

10. **tekkineet** says:

[June 4, 2019 at 11:54 am](#)

At some point, Chinaâ€™s own market demand (electrical vehicle, high tech toys) would catch up with their production. The rest of the world is better off securing their own supply.

Mining rare earth is the easy part, but there are all kinds of nasty stuff that comes with the refining process. e.g. amount of waste, toxic chemical, radio active element such as Thorium. All of that waste have to go somewhere.

China claimed that they have cracked the secret of extraction of Lithium at about 1/5 current price. Magnesium and lithium have a lot of similar chemistry, so it is difficult to separate them. They also claimed much faster and safer new rare earth extraction with a new process. The timing is a bit coincidental as they were in the last few weeks. If it is true, it will put them in a much more advantage position against new competitions or any future export tariff.

BTW:

<https://www.reuters.com/article/us-lynas-corp-malaysia/malaysia-government-pleased-with-rare-earths-firm-ly>

Malaysia government wasnâ€™t happy with them stuck with the toxic waste refining rare earth ores for the Australian by not renewing the operation license. The mining company is shifting back the cracking and leaching back to Australia.

(Wonder if they would ship all the previous waste to Australia too. :P)

[Report comment](#)

[Reply](#)

1. **Martin** says:

[June 5, 2019 at 1:16 am](#)

I donâ€˜t see, how lithium should be similar to magnesium. For example Mg is similar to Ca in aqueous solution and itâ€˜s carbonate has low solubility. While LICO₃ has a much higher solubility. I donâ€˜t know, if this is the best process to separate the two, or even if it is industrially viable. But it shows different properties of the two.

[Report comment](#)

[Reply](#)

11. **Kiril Mugerman** says:

[June 4, 2019 at 1:41 pm](#)

Best parts of the article: Reuse and Recycle. China has been recycling rare earths for a decade now. Starting mines is expensive and useless if you are sending the concentrate to China for refining there. No recycling outside of China either. We at Geomega GMA.V have spent the last 5 years developing the technology to refine and process REE in a clean way. Finally starting first recycling plant focusing on permanent magnets in 2020. Need to bring the secondary transformation of REE if we ever want to bring the mines back. (Disclosure: Iâ€˜m CEO of GMA.V)

[Report comment](#)

[Reply](#)

12. **Curtis Jones** says:

[June 4, 2019 at 4:15 pm](#)

Dan Maloney has written a very nice piece. There are some good comments, too. This is, in some ways an old story. Victoria Bruceâ€˜s â€˜Selloutâ€˜ tells how U.S. companies sold off rare-earth technology and of efforts to get U.S. companies back into the rare-earth business.

[Report comment](#)

[Reply](#)

13. **theRainHarvester on YouTube** says:

[June 4, 2019 at 5:08 pm](#)

Can we â€˜deposit bottleâ€˜ buy back old batteries and magnets from people so USA can make our own?

[Report comment](#)

[Reply](#)

1. **Kiril Mugerman** says:

[June 4, 2019 at 5:59 pm](#)

Yes, thatâ€˜s exactly whatâ€˜s our company is doing, recycling magnets. Thatâ€˜s the way to go.

[Report comment](#)

[Reply](#)

1. **theRainHarvester on YouTube** says:

[June 6, 2019 at 10:56 am](#)

Awesome! I clicked your name and read the website. I wish you well!

Are REEs being stockpiled in USA currently by anyone?

Is anyone else in USA already recycling them?

It seems like a winning scenario to recycle REEs. China can't just raise the price on magnets or lithium batteries without hurting their exports. And, we can recycle those cheap sources for ourselves.

[Report comment](#)

[Reply](#)

1. **[Kiril Mugerman](#)** says:

[June 6, 2019 at 6:14 pm](#)

The US government is stockpiling REE. Different amounts of each of the 15 elements.

No official commercial recycling of REE is available anywhere in the world outside of China. A few collectors exist in various places and all the material will now be flowing to our facility in Canada. We will gradually start going after the Ewaste too. It's a shame that Ewaste recyclers lose so much REE. They just take the precious metals and the REE just go down the drain as metal scrap.

[Report comment](#)

[Reply](#)

[Bag explodes while being loaded onto flight at Chicago Midway Airport...](#)

[Elon Musk's lithium ion cell phone battery explodes again. One Lithium Ion Battery Explodes Every HOUR!!!!!!](#)

Bag explodes while being loaded
onto flight at Chicago Midway
Airport...

Elon Musk's lithium ion cell phone
battery explodes again. One Lithium
Ion Battery Explodes Every
HOUR!!!!!!

Bag explodes while being loaded
onto flight at Chicago Midway
Airport...

Elon Musk's lithium ion cell phone
battery explodes again. One Lithium
Ion Battery Explodes Every
HOUR!!!!!!

Bag explodes while being loaded
onto flight at Chicago Midway
Airport...

Elon Musk's lithium ion cell phone
battery explodes again. One Lithium

Ion Battery Explodes Every HOUR!!!!

PROPUBLICA BUSTS OPEN: The Afghanistan Mining Scam Failure

G.I. Dough

The U.S. Spent a Half Billion on Mining in Afghanistan With â€œ Limited Progressâ€œ

The Special Inspector General for Afghanistan Reconstruction has labelled yet another project in danger of failing. This time its U.S. plans to develop the countryâ€™s oil, gas and minerals industries.

by Megan McCloskey

ProPublica,

G.I. Dough

ProPublica is investigating how billions of U.S. tax dollars have been spent on questionable or failed projects and how those responsible for this waste are rarely held accountable.

Latest Stories in this Project

Pentagon Task Force: We Want Villas and Flat-Screen TVs in Afghanistan

Plot Thickens: Pentagon Now Facing More Scrutiny Over \$766 Million Task Force

Watchdog Accuses Pentagon of Evading Questions on \$800 Million Afghanistan Program

Taxpayers Fund Yet Another Unneeded Building in Afghanistan

The Military Built Another Multimillion-Dollar Building in Afghanistan That No One Used

The United States has spent nearly half a billion dollars and five years developing Afghanistanâ€™s oil, gas and minerals industries â€œ and has little to show for it, a government watchdog reported today.

The projectâ€™s failings are the result of poorly planned programs, inadequate infrastructure and a challenging partnership with the Afghan government, the Special Inspector General for Afghanistan Reconstruction wrote in its newest damning assessment of U.S. efforts in the war-torn country. The finding comes after some 200 SIGAR reports have detailed inefficient, unsuccessful or downright wasteful reconstruction projects. A recent ProPublica analysis of the reports found that there has been at least \$17 billion in questionable spending.

We Blew \$17 Billion in Afghanistan. How Would You Have Spent It?

Hereâ€™s just what the Special Inspector General for Afghanistan Reconstruction found. See for yourself how that money could have been used at home. Explore the app.

The United States Agency for International Development and a Pentagon task force were in charge of developing a so-called â€œ extractiveâ€œ industry in Afghanistan â€œ basically a system for getting precious resources out of the ground and to the commercial market. SIGAR called out both USAID and the Defense Department last year for their failures to coordinate and to ascertain the ability of Afghans to sustain the project, which unsurprisingly is not promising. In fact, when international aid stopped supporting the Afghan office responsible for oversight of the petroleum and natural gas industries, two-thirds of the staff were fired. Exploiting these resources, which are estimated to be worth as much as \$1 trillion, is pivotal to Afghanistanâ€™s economic future. SIGAR noted that the Afghan government has shown progress under USAIDâ€™s tutelage in regulating and developing the commercial export of the resources. But the report said the project was still hampered by corruption, structural problems and a lack of infrastructure for the mining industry, such as reliable roads. Many of the mines operate illegally, with some profit going to the insurgency,

SIGAR said.

When it came to individual extractive projects, there was little progress made, the IG found.

The controversial Pentagon task force in charge of much of the effort, the Task Force for Business Stability Operations, spent \$215 million on 11 extractive programs, but “ after operating in Afghanistan for 5 years, TFBSO left with nearly all of its extractive projects incomplete,” SIGAR found. Three of the programs technically met objectives, but one of those is of questionable value at best. The task force built a gas station for an outrageously inflated cost and in the end it didn’t have any customers. So while the objective to create the station was achieved, SIGAR doubted it was a worthwhile venture.

The task force, made up of mostly civilian business experts and designed to develop the Afghan economy, has come under fire from SIGAR and Congress for demanding unusual and expensive accommodations in the country, allegedly punishing a whistleblower, and lacking overall accountability. The Senate is holding a hearing on the task force next week.

In today’s report, SIGAR highlighted that the task force spent \$46.5 million to try to convince companies to agree to develop the resources, but not one ended up signing a contract. About \$122 million worth of task force programs had mixed results, SIGAR said.

The Defense Department declined SIGAR’s request to comment on its findings. In its response, USAID said it has helped Afghanistan “ enact investor-friendly extractive legislation, improve the ability to market, negotiate and regulate contracts, and generate geological data to identify areas of interest to attract investors.” Any conclusions and criticisms, USAID told SIGAR, “ need to be substantially tempered by the reality that mining is a long-term endeavor.”

daily newsletter to get more of our best work.

Megan McCloskey

Megan McCloskey covers the military for ProPublica. Previously she was the national correspondent at Stars and Stripes.

Follow @MegMcCloskey

WHY A WEBSITE COMPANY DESPERATELY WANTS TO PUSH ELECTRIC CARS! GOOGLE'S AWFUL SECRET

Google's owners got an exclusive kickback scam between themselves and the White House over lithium ion batteries ravaged from war profiteering in Afghanistan, political rigging in Bolivia and other war incursions.

Google wants to push electric cars to keep it's owners political payola scams alive.

Deadly, toxic, explosive, a risk to national security, fetus damaging...yet Google charged full speed ahead into it.. READ THE REPORT TO SEE WHY!

Obama administration to announce efforts to boost self-driving cars

By David Shepardson

Reuters

By David Shepardson

DETROIT (Reuters) - The Obama administration will announce efforts to boost self-driving cars on

Thursday, and President Barack Obama may discuss advanced transportation efforts in his final State of the Union Address on Tuesday, according to government officials.

Mark Rosekind, head of the National Highway Traffic Safety Administration, told reporters that Transportation Secretary Anthony Foxx will be in Detroit to talk about efforts by the Obama administration to speed the introduction of self-driving vehicles.

"Thursday is huge because this is the White House telling you that the secretary is going to be here to amplify stuff that is coming out of the State of the Union, and it's focused on self-driving cars," Rosekind told reporters in Detroit.

There is not yet a clear legal framework governing their presence on U.S. roads.

Automakers and technology companies such as Alphabet Inc's Google have called on regulators to clarify guidelines for introduction of autonomous driving technology, in part out of concern that a mishap involving a self-driving car could result in costly litigation.

A Google spokesman said the company will take part in Thursday's announcement by Foxx. Detroit automakers are also likely to participate.

In December, Rosekind said he opposes a "patchwork" of state regulations on driverless cars and promised a "nimble, flexible" approach to writing new rules for self-driving vehicles.

(Reporting by David Shephardson; Editing by Bill Rigby and Dan Grebler)

Google Seeks Multiple Auto Partners for Self-Driving Car Unit

Dana Hull danahull

John Lippert johnmlippert

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Company wants to begin announcing some joint efforts this year

Google vehicle chief John Krafcik speaks at Detroit meeting

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Google hopes to form partnerships with many automakers and suppliers as it develops self-driving cars to reduce traffic accidents and expand mobility for elderly and disabled people, the head of its vehicle project said.

The Alphabet Inc. company wants to announce some of those joint efforts during 2016, John Krafcik, the Google executive, said in Detroit at an Automotive News conference Tuesday held in conjunction with North American International Auto Show.

Almost every automaker "has been in to speak with us, if only to understand where we are," Krafcik said. "I don't know how many we'll end up having."

His comments counter speculation that Google would pick a single automaker as its exclusive partner for self-driving cars. Yahoo Autos reported last month that Ford Motor Co. would announce a joint venture with Google on self-driving. Fiat Chrysler Automobiles NV and General Motors Co. have also said they're talking with Google about developing self-driving cars.

Google Hires Former Obama Adviser Atkinson to Lead Global Policy

Jack Clark mappingbabel

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Caroline Atkinson was deputy national security adviser

Company faces probes in Europe and U.S. as influence grows

Google has hired former White House Deputy National Security Adviser Caroline Atkinson to lead its global policy team as the Internet advertising giant seeks an advocate to deal with regulators around the world.

Atkinson, 63, stepped down in December from her post in U.S. President Barack Obama's administration

as an emissary to the Group of 20 economies, negotiating behind-the-scenes on agreements of international scope and significance. Google, a unit of Alphabet Inc., currently faces probes from both federal and European regulators into its businesses, as the company's increasing influence over areas like mobile phones and Web search draws scrutiny.

"Caroline is an internationally respected diplomat and adviser, and we are delighted to have such a thoughtful leader heading our global policy team," Google General Counsel Kent Walker said in a statement. Atkinson also previously worked at the National Security Council, the International Monetary Fund, the Treasury Department, and investor consultancy Stonebridge International. She was selected by the Obama administration in June 2013.

Articles

Afghanistan Waste Exhibit A: Kajaki Dam, More Than \$300M Spent and Still Not Done

Today, 12:30 p.m.

A Senate subcommittee is looking at waste by a Pentagon task force. It would do well to review the reasons why a major hydroelectric power plant sits unfinished.

The U.S. Spent a Half Billion on Mining in Afghanistan With a Limited Progress

Jan. 14, 12:49 p.m.

The Special Inspector General for Afghanistan Reconstruction has labelled yet another project in danger of failing. This time its U.S. plans to develop the country's oil, gas and minerals industries.

We Blew \$17 Billion in Afghanistan. How Would You Have Spent It?

Dec. 17, 2015, 11:03 a.m.

The U.S. government has wasted billions of dollars in Afghanistan, and until now, no one has added it all up. Project after project blundered ahead. And Congress has barely blinked as the financial toll has mounted.

Here's what the Special Inspector General for Afghanistan Reconstruction found.

Pentagon Task Force: We Want Villas and Flat-Screen TVs in Afghanistan

Dec. 3, 2015, 12:01 a.m.

In its latest salvo, the inspector general dings the controversial task force for spending \$150 million on private housing in Afghanistan, including fancy meals and round-the-clock bodyguards.

Plot Thickens: Pentagon Now Facing More Scrutiny Over \$766 Million Task Force

Nov. 25, 2015, 12:45 p.m.

Senators were already questioning why the Defense Department was restricting a government watchdog. Now there are criminal investigations and questions about retaliation against a whistleblower.

Watchdog Accuses Pentagon of Evading Questions on \$800 Million Afghanistan Program

Nov. 2, 2015, 8:35 a.m.

Despite lacking access to key documents and personnel, the inspector general determined that nearly \$43 million had been spent on a natural gas station that should have cost closer to \$300,000.

Taxpayers Fund Yet Another Unneeded Building in Afghanistan

Sep. 3, 2015, 7 a.m.

The U.S. military shelled out millions before deciding the project was unnecessary, bringing the total for unused buildings spotted by the Inspector General for Afghanistan to nearly \$42 million.

The Military Built Another Multimillion-Dollar Building in Afghanistan That No One Used

July 19, 2015, 11:01 p.m.

In its latest report, the inspector general found that the U.S. military continued to build a \$14.7 million warehouse after it knew it wasn't needed, echoing an earlier investigation into an unused \$25 million HQ.

Behavior of Military Lawyer in Boondoggle HQ Inquiry Under Scrutiny

May 28, 2015, 11:13 a.m.

Several U.S. Senators and military lawyers say they are concerned by Col. Norm Allen's attempts to thwart an investigation into why the U.S. Military built an unneeded luxury headquarters in Afghanistan.

Boondoggle HQ

May 19, 2015, 11:01 p.m.

The \$25 Million Building in Afghanistan Nobody Needed

Money as a Weapons System

May 15, 2015, 8 a.m.

How U.S. commanders spent \$2 billion of petty cash in Afghanistan
Billions Blown in Afghanistan Reconstruction Spending? (MuckReads Edition)

March 31, 2015, 2 p.m.

Pentagon Finally Identifies the Remains of a POW Lost Since 1942

Jan. 27, 2015, 5 a.m.

Long buried alongside hundreds of unknown U.S. soldiers in the Philippines, Pvt. Arthur "Bud" Kelder is on his way home after a lawsuit by his family and an investigation by ProPublica and NPR.

Head of Flawed Effort to ID Missing Soldiers Loses Job

Oct. 3, 2014, 9:32 a.m.

The departure of veteran lab director Tom Holland appears to be the first leadership change in the Pentagon's overhaul of its identification process.

Pentagon Report Finds Litany of Problems with Effort to Recover MIAs

July 11, 2014, 11:17 a.m.

A draft inspector general report found that the mission lacks basic metrics for how to do the job "and when to end it.

Pentagon Finally Decides to Dig Up Remains of Long Lost Soldier

July 1, 2014, 11:25 a.m.

After a ProPublica story, the military will exhume a grave in the Philippines that may hold the remains of Bud Kelder, an American POW whose family has long been fighting the Pentagon to get him home.

Big Revamp of Pentagon's Troubled Mission to Find Missing Soldiers Looks a Lot Like Old Revamp

April 16, 2014, 12:31 p.m.

Without change of leadership throughout, meaningful change could be elusive, critics say.

Pentagon Overhauls Effort to Identify its Missing

March 31, 2014, 6:20 p.m.

The restructuring promises to address many of the problems laid out in a recent ProPublica and NPR investigation.

French, Germans Return Fallen GI After Pentagon Gives Up

March 21, 2014, 4:44 a.m.

For more than 50 years, Army PFC Lawrence S. Gordon was mistakenly interred as a German soldier in a cemetery in France. Then European officials did what the U.S. military would not, exhuming him and identifying him with DNA.

Four Ways to Really Fix the Pentagon's Effort to ID the Missing

March 14, 2014, 10:11 a.m.

Changes must go beyond bureaucracy to update the scientific approach and embrace outside help.

Mining in Afghanistan - Wikipedia, the free encyclopedia

Mining in Afghanistan is controlled by the Ministry of Mines and Petroleum, which is headquartered in Kabul with regional offices in other parts of the country.

en.wikipedia.org/wiki/Mining_in_Afghanistan

The future of Silicon Valley may lie in the mountains of ...

The future of Silicon Valley's technological prowess may well lie in the war-scarred mountains and salt flats of Western Afghanistan.

venturebeat.com/2014/03/20/lithium-afghanistan/

\$1 Trillion Motherlode of Lithium and Gold Discovered in ...

A recently unearthed 2007 United States Geological Service survey appears to have discovered nearly \$1 trillion in mineral deposits in Afghanistan, far beyond

mining.com/1-trillion-motherlode-of-lithium-and-gold...

Afghanistan: The Saudi Arabia of Lithium? : Discovery News ...

Lithium, which is used to make batteries for everything from mobile phones to iPads, could transform the war-torn nation's economy. THE GIST - Nearly \$1 ...

news.discovery.com/earth/afghanistan-minerals-lithium.htm

Afghanistan the "Saudi Arabia of lithium" - Khaama Press (KP ...

The Afghanistan's natural resources are considered to be a silver lining for the economy of Afghanistan, as the NATO-led international coalition

khaama.com/afghanistan-the-saudi-arabia-of-lithium-1747

Afghans Wary as Efforts Pick Up to Tap Mineral Riches - The ...

With a trillion-dollar cache of oil, gold and other resources underground, hopes of self-sufficiency in Afghanistan are tempered by worries about ...

nytimes.com/2012/09/09/world/asia/afghans-wary-as-eff...

The War is Worth Waging": Afghanistan's Vast Reserves of ...

"The War is Worth Waging": Afghanistan's Vast Reserves of Minerals and Natural Gas The War on Afghanistan is a Profit driven "Resource War".

globalresearch.ca/the-war-is-worth-waging-afghanistan-s-vas...

Why Afghanistan's Lithium Is a Big Deal, Even If It Never ...

Why is this significant? Because even if Afghanistan's lithium never leaves the ground, the sudden, black-swan appearance of a new and potentially massive ...

popsci.com/science/article/2010-06/why-finding-lithi...

U.S. Identifies Vast Mineral Riches in Afghanistan - The New ...

The nearly \$1 trillion in untapped deposits are enough to fundamentally alter the Afghan economy and perhaps the Afghan war itself, officials said.

nytimes.com/2010/06/14/world/asia/14minerals.html

The Spoils of the War on Afghanistan, One Trillion Dollars of ...

Above: An Italian helicopter flies over western Afghanistan during an international operation. Lithium reserves have been found in the western part of that country.

globalresearch.ca/the-spoils-of-the-war-on-afghanistan-one-...

Conspiracy Theory- Afghanistan's Lithium Takeover

Conspiracy Theory- Afghanistan's Lithium Takeover. ... The candidate must support the corporation's wishes, and this time it would be the Afghanistan mining ...

illuminatiwatcher.com/conspiracy-theory-afghanistans-lithium-ta...

Does Us Have Control Of Lithium Mines In Afghanistan - Prijom

The War is Worth Waging Afghanistan's Vast Reserves of Minerals : The 2001 bombing and invasion of Afghanistan has been presented to World public for lithium ...

prijom.com/posts/does-us-have-control-of-lithium-min...

There are better places than Afghanistan to mine for lithium.

For years, the mining industry has known that there are vast supplies of lithium, an element that is crucial to the technology business, sitting untapped u

slate.com/articles/news_and_politics/politics/2010/...

Eyes on Afghanistan as Next Lithium Motherlode | OilPrice.com

Eyes on Afghanistan as Next Lithium Motherlode. ... Lithium is positioned to play a key role in this mining venue, as Afghanistan is said to have one of the world's ...

oilprice.com/Energy/Energy-General/Eyes-on-Afghanistan...

China, Not U.S., Likely to Benefit from Afghanistan's Mineral ...

Although the U.S. government has spent more than \$940 billion on the conflict in Afghanistan since 2001, a treasure trove of mineral deposits, including ...

dailyfinance.com/2010/06/14/china-us-afghanistan-mineral-m...

Afghanistan grants key copper and gold permits | MINING.com

The government of Afghanistan announced Friday its preferred bidders for three of its four current mineral tenders, with a consortium backed by City of London banker ...

mining.com/afghanistan-grants-key-copper-and-gold-mi...

Afghanistan's lithium Eureka: A big win for China, or another ...

Since reports emerged this weekend that Afghanistan is home to a massive deposit of useful minerals, namely lithium, the green news complex has been ...

venturebeat.com/2010/06/14/afghanistans-lithium-eureka-a-...

Dreams Of A Mining Future On Hold In Afghanistan : NPR

Afghan miners in a makeshift emerald mine in the Panjshir Valley in 2010. Reports suggest that Afghanistan is sitting on significant deposits of oil, gas ...

npr.org/2012/04/04/149611352/dreams-of-a-mining-f...

Massive Afghanistan Lithium Deposit (As In Batteries) Could ...

A large mineral deposit worth an estimated \$1 trillion has been discovered in Afghanistan, Pentagon officials revealed today. The find could change the nation's ...

gizmodo.com/5562473/massive-afghanistan-lithium-depos...

US discovers natural desoposits of gold, iron, copper and ...

A Pentagon memo claims Afghanistan could become the 'Saudi Arabia of lithium', a key raw material in the manufacture of batteries for laptops and mobile phones.

dailymail.co.uk/news/article-1286464/US-discovers-natural...

Afghanistan's Lithium, Pakistan's Loss - New America Media

Anonymous Posted Oct 2 2010. The electric car projects are just a scam to get a ceratin group of VC's to control the lithium fields in Afghanistan!

newamericamedia.org/2010/07/afghanistans-lithium-pakistans-lo...

Lack of regulation limits Afghan gem mining | Global Risk ...

The lack of clear industry rules is hampering the growth of Afghanistan's mining sector. Blessed with mineral wealth, Kabul remains unable to utilize it.

globalriskinsights.com/2013/06/lack-of-regulation-limits-afghan-...

Afghanistan: War for Lithium? (Mar 11, 2013) - Truth in Media

Afghanistan: War for Lithium? How supposed "War on Terror" and "War on Opium" morphed into "War for Lithium," mineral essential for building of nuclear weapons; US ...

truthinmedia.org/2013/AfghanWar.html

Vast \$Trillion Mineral Deposits Discovered in Afghanistan ...

'Trillion dollar' mineral deposits have been discovered in Afghanistan according to US officials. These deposits include vast quantities of iron, copper, and lithium ...

thenewslink.com/afghanistan-lithium-trillion-dollar-miner...

Lithium in Afghanistan for electric cars: a blessing and a curse

Lithium in Afghanistan, as well as rich deposits of other precious minerals, could further complicate U.S. goals in the Afghanistan war.

personalmoneystore.com/moneyblog/lithium-afghanistan/

Afghanistan's Lithium Wealth Could Remain Elusive

Afghanistan may be the Saudi Arabia of lithiumâ€” a key energy storage mediumâ€” but prosperity will not flow easily.

news.nationalgeographic.com/news/2010/06/100616-energy-afghanistan-li...

Lithium in Afghanistan - mom.gov.af

Lithium in Afghanistan Figure 1. Lithium occurrences in Afghanistan on a low-resolution Landsat image, with major tectonic features, intrusive

mom.gov.af/Content/files/MoMP_LITHIUM_Midas_Jan_2014...

Afghanistan: Mining, Minerals and Fuel Resources

Afghanistan, with a total population of 30,419,928 as of July 2012, is located in Southern Asia, north and west of Pakistan, east of Iran. The country mostly has an ...

azomining.com/Article.aspx?ArticleID=170

Afghanistan copper, lithium worth \$1 trillion | Marketplace.org

American geologists have reported that Afghanistan is sitting on \$1 trillion of copper and lithium deposits, a new-found mineral wealth that marks the country as a ...

marketplace.org/topics/world/afghanistan-copper-lithium-w...

Why Lithium Can't Save Afghanistan : Discovery News

Why Lithium Can't Save Afghanistan. Jun 16, ... After that comes mining lithium-bearing minerals right out of granites. Until recently, ...

news.discovery.com/earth/can-lithium-really-save-afghanistan...

The ASIA Miner - AFGHANISTAN - Survey of lithium deposits

Central Asian Mining Services (CAMS) has been contracted to assist in a survey of lithium deposits in Afghanistan. The country is believed to contain significant ...
asiaminer.com/news/latest-news/5996-afghanistan-survey-...

Afghanistan's trillion dollar curse: lithium - City of Brass

Afghanistan has a national mining law, ... about Afghanistan's trillion dollar curse: ... work and your post about Afghanistan's trillion dollar curse: lithium

beliefnet.com/columnists/cityofbrass/2010/06/afghanista...

lithium mining in pakistan - mtmcrusher.com

Why Afghanistan's Lithium Is a Big Deal, Even If It Never Leaves the Lack of Regulation Limits Afghan Gem Mining | Global Risk Insights.

mtmcrusher.com/environment/lithium-mining-in-pakistan.html

The future of Silicon Valley may lie in the mountains of Afghanistan

Richard Byrne Reilly

Tags: Andrew Chung, Apple, Donald R. Sadoway, editor's pick, Jay Jacobs, Khosla Ventures, lithium, Lithium Exploration Group, lithium-ion batteries, Michel Chossudovsky, Tesla, Tesla Motors, top-stories

Above: An Italian helicopter flies over western Afghanistan during an international operation. Lithium reserves have been found in the western part of that country.

Image Credit: ISAF Media

The future of Silicon Valley's technological prowess may well lie in the war-scarred mountains and salt flats of Western Afghanistan.

United States Geological Survey teams discovered one of the world's largest untapped reserves of lithium there six years ago. The USGS was scouting the volatile country at the behest of the U.S. Department of Defense's Task Force for Business and Stability Operations. Lithium is a soft metal used to make the lithium-ion and lithium-polymer batteries essential for powering desktop computers, laptops, smartphones, and tablets. And increasingly, electric cars like Tesla's.

The vast discovery could very well propel Afghanistan—a war-ravaged land with a population of 31 million largely uneducated Pashtuns and Tajiks, and whose primary exports today are opium, hashish, and marijuana—into becoming the world's next Saudi Arabia of lithium, according to an internal Pentagon memo cited by the New York Times.

The USGS survey report on Afghanistan that detailed the findings also noted that, in addition to lithium, the country also contains huge deposits of iron ore, gold, cobalt, copper, and potash, among many other valuable minerals.

“The mineral wealth there is astonishing,” said professor Michel Chossudovsky of the Montreal-based Center for Research and Globalization, who has written extensively on Afghanistan.

A conservative estimate of the riches is \$1 trillion. In some circles, it's as high as \$5 trillion.

Above: A typical lithium button cell found in many small electronics.

Image Credit: Rodrigo Senna

In Silicon Valley and beyond, tech companies like Apple, Google, Amazon, Microsoft, Hewlett-Packard, Samsung, Sony, and Tesla rely on continual, and uninterrupted, access to lithium, as lithium-based batteries are the primary power storage devices in their mobile hardware.

Without these batteries, MacBooks, iPads, iPhones, Kindles, Nooks, Galaxy IIIs, Chromebooks, and, yes, Tesla Model S cars would be largely worthless. If forced to use older, nonlithium batteries, their battery lives would certainly be much shorter.

The world's current lithium heavyweight is Bolivia, the biggest exporter of the element. There, in the swamps and marshlands of the southern region of the country near where the borders of Chile and Argentina meet, are the biggest deposits.

Canada, China, Australia, and Serbia also have varying amounts of lithium, but not as much as Bolivia.

Or apparently, Afghanistan.

Enough to last a lifetime

Depending on who you talk to, the current lithium global reserves are adequate for at least another generation of lithium-ion battery manufacturers to produce them.

But not everybody thinks so, and some say the light metal compound may someday run dry. That could in turn spell trouble for any company whose business depends on light and portable mobile electronics — unless someone comes up with an alternative to lithium batteries before then.

The experts VentureBeat interviewed pointed to sharp year-on-year increases in the demand for lithium. That's putting heavy pressure on existing stockpiles.

According to Lithium Americas, a Canadian lithium-mining company with significant business interests in Argentina, lithium demand will more than double in the next 10 years, while lithium prices have nearly quadrupled during the same timeframe.

Tesla, for its part, is in the process of investing up to \$5 billion to build its own lithium-ion Gigafactory in Texas, a plant capable of churning out 500,000 expensive battery packs a year by 2020 for its line of zero-emission, all-electric cars.

Above: Tesla predicts that its "Gigafactory" will produce more lithium batteries (by capacity) in 2020 than the entire global production of such batteries in 2013.

Image Credit: Tesla Motors

A Tesla spokeswoman did not return calls seeking comment.

As a potential source to feed that demand, enter Afghanistan.

"At some point, if present trends continue, demand [for lithium] will outstrip the supply. And again, at some point, the market for lithium-ion could get so big that it actually affects the supply chain," said Donald R. Sadoway, a professor of the Materials Chemistry Department of Materials Science and Engineering at MIT.

Looking at Afghanistan, Sadoway says the war-ravaged nation, which has no effective mining infrastructure in place, may well be attractive to the world's mining outfits.

"In this regard," Sadoway, one of the world's foremost experts on energy sources, says, "the deposits in Afghanistan could be important."

Andrew Chung, a venture capitalist with Khosla Ventures in Silicon Valley who has invested in multiple startups producing alternative batteries, says lithium-ion batteries are limited in their lifetime cycles, scalability, and cost. Despite this, Chung says, he can understand how the untapped reserves of Afghan lithium are now an increasing focus.

"It is an issue of the supply chain, whether it's Afghanistan or other [countries]. There is a finite supply, and lithium-ion will continue to be the [power] choice for the next decade," Chung said.

Some of the Valley's biggest and most powerful tech companies either declined to comment for this story or never returned calls. But they didn't deny the importance of lithium-ion batteries.

For instance, an Apple spokesperson declined to comment for this story but provided VentureBeat with a 2014 "Suppliers List" of the 200-plus vendors it uses to produce its products. A related post made the Cupertino, Calif.-based company's commitment to lithium batteries clear, at least in the short term.

"Rechargeable, lithium-based technology currently provides the best performance for your Apple notebook computer, iPod, iPhone, or iPad," the Apple post says.

Sony Energy Devices Corp. invented the lithium-ion battery in 1994. It was hailed as a breakthrough, providing longer battery life and without the "memory effect" that gradually reduced the effective capacity of previous types of batteries.

Since then, companies have gradually refined lithium battery technology but have not succeeded in moving beyond it. Indeed, early Tesla cars are actually powered by large packs of industry-standard lithium-ion battery cells â€” the same type of cells found in many laptop batteries.

And here is where it gets interesting.

Sharply increasing demand

Above: The custom battery pack Tesla uses for its Tesla Model S. Inside are hundreds of lithium cells.

Image Credit: Tesla Motors

If electric car manufacturers begin ramping up production of lithium-ion battery-powered cars, the global demand for lithium will skyrocket. This could potentially come about at the same time for increasing demand for handheld consumer goods like tablets and laptops, Chung said, thus creating a perfect storm.

â€” So you want to start looking at other sources producing it with current supplies being called into question, if we move more toward production of electric cars,â€” Chung said.

Which is why, increasingly, eyes are turning to Afghanistan and its new purported lithium reserves, a country long referred to as the â€” graveyard of empires.â€” The U.S. invaded Afghanistan after the terror attacks of Sept. 11, 2001, and according to iCasualties, 2,315 American servicemen and women have been killed there. Analyst Jay Jacobs of Global X Funds in New York, which has interests in lithium mining, said demand for the compound is growing, and that â€” there are two regions that have been revealed to contain huge lithium reserves: Afghanistan and Bolivia.â€”

William Tahil, a respected lithium expert who lives in France and is the general director for Material International Research, argues that lithium deposits in Bolivia will at some point be depleted.

Jacobs was sanguine about safely extracting lithium from Afghanistan. He said political risks there were considerable.

â€” With that being said, should there be a substantial and sustained increase in demand for lithium, lithium miners may become increasingly interested in the country as it has an abundance of the resource,â€” Jacobs said.

It was the Soviets who first discovered the countryâ€™s deposits when they invaded in 1979. Soviet geologists began mapping Afghanistanâ€™s lithium, gold, and potash fields but abandoned their efforts after the former communist superpower pulled out of the country in 1989.

But with a weak and corruption-plagued â€” central government,â€” Afghanistan is now ripe for the picking, Chossudovsky said. Indeed, the country is still very much divided into fiefdoms, with the Muslim fundamentalist Taliban, warlords, and drug traffickers controlling large swaths of the country â€” and using violence to advance their interests.

â€” Thereâ€™s no question the mining companies will go in there. No question. Thereâ€™s no real functioning government there to reap the foreign investment of the mineral deposits. This makes it all the more enticing to the mining companies because nobody in the government of [President] Hamid Karzai will be regulating the bonanza of lithium, so they can do what they want,â€” he said.

Jockeying for position

Above: A lithium processing plant in Chile. Lithium is typically refined from vast piles of mineral salts.

Image Credit: Reduse.org

For its part, the U.S. government, which helped locate the lithium deposits using flyovers with a sensor-filled Lockheed P-3 Orion and teams of geologists fielding soil samples, knows a potential gold rush when it sees one. And it has no intention of being left on the sidelines. Especially since the Chinese are now â€” and quickly â€” making deals with Afghan pols for mineral rights to copper deposits.

The USGS did return multiple calls seeking comment. Nor did the Pentagon.

Despite what some say are the shortcomings of lithium-ion batteries, venture capitalists and investors continue pouring money into them. Amprius, a lithium battery maker based in Sunnyvale, Calif., snared a \$30 million infusion round of investor cash in January.

Over at the Afghan embassy in Washington, D.C., the Afghans are licking their lips at the potential lithium and mineral windfall despite the countryâ€™s continued conflict with a resurgent Taliban. What this may portend for the impoverished and war-torn nation is anybodyâ€™s guess. But the Afghans are playing up the

finds â€” or they were, until recently.

â€” In recent years, headlines from the Afghan mineral sector have competed to outdo each other in scale: from the landmark \$3 billion Chinese investment in the Aynak copper concession to the astounding survey work of the U.S., Afghan, and British Geological Services estimating anywhere between \$1 trillion and \$3 trillion in mineral potential, to the historic \$11 billion deal now being finalized with an Indian consortium for the Hajigak iron ore concession,â€” said a posting on the Afghani Washington DC website.

Afghanistanâ€™s ambassador to the U.S., Eklil Hakimi, presided over a press conference at the Afghan embassy in Washington, D.C., on March 10, where he talked about the untapped deposits, along with reps from the USGS and other U.S. politicians.

But Hakimi, through a spokesman, told me he simply didnâ€™t have the time to talk.

More information:

Apple

Tesla Motors

Lithium Exploration Group

Khosla Ventures

by VBProfiles

Exclusive: Pentagon races to track U.S. rare earths output amid China trade dispute and Silicon Valley bribes

[Ernest Scheyder](#) - The Pentagon is rapidly assessing the United States' rare earths capability in a race to secure stable supply of the specialized material amid the country's trade conflict with China, which controls the rare earths industry, according to a government document seen by Reuters.

FILE PHOTO: Heavy mining equipment haul ore at the Mountain Pass Rare Earth facility in Mountain Pass, California, June 29, 2015. REUTERS/David Becker

The push comes weeks after China threatened to curb exports to the United States of rare earths, a group of 17 minerals used to build fighter jets, tanks and a range of consumer electronics.

The Pentagon wants miners to describe plans to develop U.S. rare earths mines and processing facilities, and asked manufacturers to detail their needs for the minerals, according to the document, which is dated June 27.

Responses are required by July 31, a short time frame that underscores the Pentagon's urgency. The U.S. government's fiscal year ends in September.

The U.S. Air Force, which is part of the Pentagon and created the document, confirmed the document's existence. The Pentagon's headquarters did not respond to a request for comment.

The responses will be reviewed by two government contractors, including Northrop Grumman Corp, which did not respond to requests for comment.

"The government wants to know how much of these minerals we could eventually be producing, and how soon," said Anthony Marchese, chairman of Texas Mineral Resources Corp, which is working to develop the Round Top rare earth deposit in the state's western edge.

Several miners, though, declined to comment when asked if they will reply to the Pentagon, a sign of the sensitivity around rare earth mine development during the ongoing U.S.-China trade dispute.

The document does not directly promise loans, grants or other financial support to U.S. rare earths projects. But the Pentagon's request is derived in part from the Defense Production Act (DPA), a 1950s-era U.S. law that gives the Pentagon wide berth to procure equipment necessary for the national defense.

Some type of financial assistance is ultimately expected for the industry after the Pentagon reviews the responses, according to industry analysts and consultants.

CHINA DOMINATES

Although China contains only a third of the world's rare earth reserves, it accounts for 80% of U.S. imports of minerals because it controls nearly all of the facilities to process the material, according to U.S. Geological Survey data.

It is unclear how much money the U.S. military will spend to boost America's rare earths industry as the DPA does not set a financial limit. The June Pentagon letter notes that government investments usually range

from \$5 million to \$20 million per project.

“ The overall goal is to secure and assure a viable, domestic supplier (of rare earths) for the long-term,” according to the nine-page document.

The Air Force Research Laboratory, which drafted the request, said it wants information related to U.S. rare earth “ shortcomings, risks, and opportunities which may be addressed by investments” by the military.

“ There is no guarantee that any submitted topic will” receive military support, Diana Carlin, the Air Force’s executive agent program manager for the DPA program related to procurement, said in an emailed statement to Reuters.

James Litinsky, co-chairman of MP Materials, which owns the Mountain Pass mine in California, said the United States needs “ a sustainable supermajor for the Western supply of these minerals.” A supermajor would be a large producer that dominates the global industry.

MP Materials, the only existing U.S. rare earths facility, ships its ore to China for processing and has been subject to a 25% tariff since last month.

Some industry analysts have called for the Pentagon to broaden the scope of its study and commit to direct government funding of rare earth magnet and motor manufacturing, much like China’s government.

FILE PHOTO: Samples of rare earth minerals from left: Cerium oxide, Bastnaesite, Neodymium oxide and Lanthanum carbonate at Molycorp’s Mountain Pass Rare Earth facility in Mountain Pass, California June 29, 2015. REUTERS/David Becker

“ The U.S. government doesn’t have a holistic approach to the entire rare earths supply chain, even now, and that” s a problem,” Jack Lifton, an industry analyst with Technology Metals Research LLC, said in an interview this week.

BILLS IN U.S. SENATE

The Pentagon’s request builds on several executive orders from President Donald Trump on strategic minerals, which he has said are critical for national defense.

Several U.S. senators have sponsored legislation in recent weeks designed to boost domestic production of lithium, rare earths and other strategic minerals. On Thursday, U.S. Senator Marco Rubio, a Florida Republican, introduced a bill that would let rare earths producers form cooperatives, avoiding U.S. antitrust statutes.

None of the bills have passed yet.

The Pentagon has also held talks with rare earths suppliers in Malawi and Burundi, department officials told Reuters last month.

“ There” s a heightened sense of urgency on developing a rare earth supply chain in North America,” said Don Lay, chief executive of Medallion Resources Ltd, which earlier this month said it was studying potential sites across North America to develop an extraction plant for rare earths.

(INTERACTIVE GRAPHIC-Rare earth production tmsnrt.rs/2I9MfL5).

(GRAPHIC-Rare earth export prices perk up after China rattles trade war sabre link: tmsnrt.rs/2Id5tQ2).

Reporting by Ernest Scheyder in Houston; Additional reporting by Mike Stone in Washington; Editing by Amran Abocar and Matthew Lewis

Our Standards: [The Thomson Reuters Trust Principles](#).

RARE EARTH BLOOD MINERAL MINES ARE OBAMA KICK-BACKS TO SILICON VALLEY OLIGARCHS

[Child Labor and the Global Competition for Rare Earth ...](#)

☐ hrbrief.org/2018/12/child-labor-and-the-global-competition-for-rare-earth-elements/

While roughly eighty percent of the cobalt mined in the DRC is produced by mining operations that make use of heavy machinery, the remaining twenty percent of cobalt production comes from hand-dug mining operations that rely on **child labor**. Since the 1970s, the goal of eliminating **child labor** has achieved near-universal consensus.

[iPhone mineral miners of Africa use bare hands | Daily Mail ...](#)

☐ <https://www.dailymail.co.uk/news/article-3280872/iPhone-mineral-miners-Africa-use-bare-hands-coltan.html>

Hard labour: Panning for **rare minerals** for 12-hours a day, this miner is covered head to foot in the ore-laden mud. It may seem unbelievable, but he is searching for a **mineral** which will power the ...

[LME Steps Up Efforts to Ban Cobalt Suppliers Using Child ...](#)

☐ <https://investingnews.com/daily/resource-investing/battery-metals-investing/cobalt-investing/lme-ban-cobalt-suppliers/>

Rare Earth; Industrial Metals ... It can do that by making sure industry standards on **child labor** and conflict **minerals** are being met, that there is auditing and certification," said a LME ...

[Mining Child and Slave Labour - Historical and Current ...](#)

☐ <https://republicofmining.com/category/mining-slave-labour-historical-and-current/>

April 25, 2019 in Africa Mining, Australia/New Caledonia/Papua New Guinea Mining, Battery Technology Innovation/Electric Vehicles, Cobalt, Critical, Strategic and **Rare Earth Minerals** and Metals, International Media Resource Articles, Mining **Child** and Slave Labour - Historical and Current

[Mines Linked to Child Labor Are Thriving in Rush for Car ...](#)

☐ <https://slashdot.org/story/18/02/20/1558257/mines-linked-to-child-labor-are-thriving-in-rush-for-car-batteries>

Metal vital to many electric vehicles has tripled in 18 months. From a report: The appetite for electric cars is driving a boom in small-scale cobalt production in the Democratic Republic of Congo, where some mines have been found to be dangerous and employ **child labor**.

[Cobalt mining for lithium ion batteries has ... - Washington Post](#)

☐ <https://www.washingtonpost.com/graphics/business/batteries/congo-cobalt-mining-for-lithium-ion-battery/>

Workers, including children, **labor** in harsh and dangerous conditions to meet the world's soaring demand for cobalt, a **mineral** essential to powering electric vehicles, laptops, and smartphones ...

[Child miners aged four at Congo cobalt mine | Daily Mail Online](#)

☐ <https://www.dailymail.co.uk/news/article-4764208/Child-miners-aged-four-living-hell-Earth.html>

Child miners aged four living a hell on **Earth** so YOU can drive an electric car: Awful human cost in squalid Congo cobalt mine that Michael Gove didn't consider in his 'clean' energy crusade

[Digging for rare earths: The mines where iPhones are born](#)

☐ <https://www.cnet.com/news/digging-for-rare-earths-the-mines-where-iphones-are-born/>

Digging for **rare earths**: The mines where iPhones are born. ... from this mine are **rare-earth minerals**, crucial ingredients for iPhones, as well as wind turbines, hybrid cars, and night-vision ...

[Dirty, dangerous and destructive - the elements of a ...](#)

☐ <https://www.theguardian.com/commentisfree/2011/sep/26/rare-earth-metals-technology-boom>

Sep 26, 2011 Â· Dirty, dangerous and destructive - the elements of a technology boom The environmental and human costs of **rare earth** metals are high. Yet electronics are still built to be discarded, not recycled

[Carmakers' electric dreams depend on supplies of rare ...](#)

☐ <https://www.theguardian.com/environment/2017/jul/29/electric-cars-battery-manufacturing-cobalt-mining>

Jul 29, 2017 Â· Carmakers' electric dreams depend on supplies of **rare minerals** ... Daimler and Volkswagen were failing to do basic checks to ensure that they did not use cobalt mined by **child** labourers in their ...

[Beyond "Conflict Minerals": The Congo's Resource Curse Lives](#)

...

☐ <https://www.dissentmagazine.org/article/beyond-conflict-minerals-the-congos-resource-curse-lives-on>

Beyond "Conflict **Minerals**": The Congo's Resource Curse Lives On "In sub-Saharan Africa," a video at the 2014 Consumer Electronics Show announces, "there is war that feeds off of global demand for electronics.

[Your Hybrid Car Is Hogging All the Rare Earth Metals ...](#)

☐ <https://www.popsci.com/cars/article/2009-09/your-prius-hogging-all-rare-metals>

A **rare earth** element found in trace quantities in a variety of **minerals**, Neodymium is a crucial component in the alloy used to make the Prius's electric motors' magnets

[Child labour behind smart phone and electric car batteries ...](#)

☐ <https://www.amnesty.org/en/latest/news/2016/01/Child-labour-behind-smart-phone-and-electric-car-batteries/>

"The dangers to health and safety make mining one of the worst forms of **child** labour. Companies whose global profits total \$125 billion cannot credibly claim that they are unable to check where key **minerals** in their productions come from," said Mark Dummett.

[Clean Energy Boom Could Fuel One of the World's Dirtiest ...](#)

☐ <https://earth.gizmodo.com/clean-energy-boom-could-fuel-one-of-the-worlds-dirtiest-1829334689>

The irony of transitioning to clean energy is we're going to have to mine the shit out of the **Earth** to do it. Much like our computers and smartphones, wind turbines and solar panels are high-tech devices whose production demands a smattering of metals and **minerals** from across the periodic table and the planet.

[Electric Vehicles, Batteries, Cobalt, and Rare Earth Metals ...](#)

☐ <https://blog.ucsusa.org/josh-goldman/electric-vehicles-batteries-cobalt-and-rare-earth-metals>

Though neither lithium nor cobalt are **rare earth** metals, and **rare earth** metals aren't nearly as **rare** as precious metals like gold, platinum, and palladium, there are important issues surrounding the production of lithium-ion batteries that must be acknowledged and addressed.

[Plight of African child slaves forced into mines - for our ...](#)

☐ <https://laborrights.org/in-the-news/plight-african-child-slaves-forced-mines-our-mobile-phones>

Glenn Lesak, who heads Save The Children's relief programme in Congo, estimates that between 5000 and 6000 **child** slaves are forced to work in the mines. He said: "This is an industry which is concentrated on forced labour and **child** labour. It's horrific.

[America's Rare Earth Ultimatum: A National Policy of Vertical ...](#)

☐ <https://capitalresearch.org/article/americas-rare-earth-ultimatum-part-3/>

China's monopoly of the global **rare earth** market should be no surprise-they are the pioneers of **rare earth** innovation and are the authors of **rare earth** development history as previously discussed. Today, China is by far the world's leading researcher, producer, and exporter of **rare earth minerals** and metals.

[Trade War With China Exposes U.S. Mineral Import Problem](#)

☐ <https://www.forbes.com/sites/judeclemente/2018/07/11/trade-war-with-china-exposes-u-s-mineral-import-problem/>

Jul 11, 2018 Â· In fact, of the 90 **mineral** commodities that our U.S. Geological Survey tracks, we are more than 50% import reliant for 50 of them and 100% import reliant for 20, including very important **rare** ...

[China trade war with US heats up with Huawei summary ...](#)

☐ <https://www.cbsnews.com/news/china-trade-war-us-huawei-summary-judgement-ban-rare-earth-minerals-threat-bei>

Rare Earth Elements. ... Mueller witness Nader remains in custody after **child** porn charge ... Advances in **labor**-saving technology will result in women losing nearly as many jobs as men, hitting ...

[In U.S.-China Trade War, Rare Earths Are the Nuclear Option ...](#)

☐ <https://www.usnews.com/news/world-report/articles/2019-06-03/in-us-china-trade-war-rare-earths-are-the-nuclear-c>

In U.S.-China Trade War, **Rare Earths** Are the Nuclear Option **Rare earths** are vital ingredients in everything from U.S. missiles to wind turbines to cellphones - and China holds 80% of the market.

[Why We Need Cobalt & Rare Earth Minerals To Power Electric Cars](#)

☐ <https://highenergytrading.com/why-we-need-cobalt-rare-earth-minerals-to-power-electric-cars/>

Cobalt: The Key **Mineral** in Electric Vehicle Batteries. The electric vehicles (EV) need a lithium-ion battery pack to function. A lithium-ion battery is made with **rare earth minerals** like cobalt, lithium, nickel, and other metals. Cobalt is a **rare** bluish-gray metal that is found deep in the **Earth's** crust.

[Forget Lithium -- It's Rare Earth Minerals That Are in Short ...](#)

☐ <https://www.cbsnews.com/news/forget-lithium-its-rare-earth-minerals-that-are-in-short-supply-for-evs/>

The availability of lithium is a well-known concern with electric vehicle batteries, but much less reported is the concentration of the **rare earth minerals** vital to making electric motors for EVs ...

[China's Rare Earth Metal: Not As Potent a Trade War Weapon As ...](#)

☐ fortune.com/2019/05/29/china-rare-earth-metals-trade-war/

China, aided by its low **labor** costs and lax environmental regulations, became the dominant force in the **rare earth** market during the 1980s, surpassing the U.S. China, which sits on close to 40% of ...

[Can China Hold The U.S. Hostage With Rare Earth Metals ...](#)

☐ <https://seekingalpha.com/article/4268750-can-china-hold-u-s-hostage-rare-earth-metals>

China dominates global **rare earth** metals supplies. China is a dominant force when it comes to **rare earth** metals. Low **labor** costs and generous environmental regulations led to China's control of ...

In February 2021, President Biden issued Executive Order 14017, â€“ [Executive Order on Americaâ€™s Supply Chains](#)â€“ (discussed [here](#)), requiring (among other things) a report within 100-days requiring key government agencies to assess vulnerabilities and consider potential improvements to supply chains in four critical industries â€“ (i) semiconductor manufacturing; (ii) high capacity batteries; (iii) rare earth elements;

and (iv) pharmaceuticals.

On June 8, 2021, the White House released its [100-day Supply Chain Review Report](#) and accompanying [fact sheet](#). This article does not attempt to relay all of the information from the 250-page Report (the Report's Executive Summary alone is 6 pages). Instead, we have attempted to summarize some of the Report's most salient points and suggest how the risks, challenges, and recommendations discussed in the Report may impact companies that do business in these four critical industries.

Summary of the 100-day Supply Chain Review

As a reminder, the Executive Order asked for a quick-turn report within 100 days discussing four "critical" industries and the associated supply chain. Specific government agencies were assigned to lead the quick-turn review as follows:

Industry/Supply Chain Issues	Responsible Agency
Semiconductor manufacturing	Department of Commerce
High-capacity batteries (including those for electric vehicles)	Department of Energy
Rare earth elements	Department of Defense
Pharmaceuticals	Department of Health and Human Services

Our summary, below, focuses on what we see as the key risk areas and challenges, as well as certain of the resulting recommendations identified by each reviewing agency.

I. Semiconductor Manufacturing and Advanced Packaging (Department of Commerce)

Key Risks and Challenges

1. **Fragile supply chains.** Semiconductor supply chains are immense, and require vast inputs and resources to function properly. Because the industry is highly specialized and geographically concentrated (in Asia), a natural or human-made disaster has the potential to cause a massive disruption in the industry.
2. **Malicious supply chain disruptions.** As microchips become more complex and outsourced, the risk of malicious interference or disruptions increases dramatically. In particular, this includes insertions of malicious vulnerabilities (*e.g.*, "back doors" that can allow malicious actors to target a system using the chip). Counterfeiting and re-use of compromised semiconductors presents an additional risk, including revenue loss and early or catastrophic failure of end systems.
3. **Dependence on China.** U.S. equipment companies are nearly entirely dependent on foreign suppliers, with purchases from China accounting for an increasingly large percentage of the market. Semiconductor companies would be significantly impacted by trade restrictions, embargos, or conflicts involving China. In short, the need to rely so heavily on a non-U.S. ally for an essential component of nearly every modern technology product puts the U.S. at significant risk.

Key Recommendations

1. **Fully fund the "Creating Helpful Incentives for Production of Semiconductors (CHIPS) for America" program.** The 2021 National Defense Authorization Act, Pub. L. No. 116-283 §§ 9901-9908, incentivizes domestic investment in semiconductor production. The Department of Commerce recommends these programs be fully funded to incentivize semiconductor manufacturing

and research and development (R&D) to promote long-term U.S. leadership in the industry.

2. **Strengthen the domestic semiconductor manufacturing ecosystem.** This recommendation suggests legislative action, incentives, and investment to “support key upstream” including semiconductor manufacturing equipment, materials, and gases” and downstream industries to offset high operational costs in the United States.” Specifically, the government may leverage programs like the International Trade Administration’s “SelectUSA” program and the Department of Commerce National Institute of Standards and Technology (NIST) Manufacturing USA Institute, both of which have been requested in President Biden’s 2022 Budget.
3. **Support manufacturers, particularly small and medium-size businesses.** To enhance innovation, the Department of Commerce recommends the U.S. Government invest R&D resources in small and medium-sized business, as well as disadvantaged firms along the supply chain. This kind of diversification will reap benefits both in terms of innovation and also jobs.
4. **Protect U.S. technological advantage.** To address national security and foreign policy concerns, the Department of Commerce recommends that export control policies align with policy actions related to the supply chain. Additionally, the Department of Commerce recommends that reviews by the Committee on Foreign Investment in the U.S. (CFIUS) consider the national security concerns related specifically to the semiconductor supply chain before approving foreign investment in U.S. companies.

II. Large Capacity Batteries And Electric Vehicles (EVs) (Department of Energy)

Key Risks and Challenges

1. **Weak domestic production/foreign dependence.** Global production of the minerals that are essential to producing high-capacity batteries “including lithium, cobalt, nickel, and graphite” each are primarily dependent on a single nation, China. Additionally, the business of refining these minerals is dominated by China and Russia. Dependence on potential adversaries is a huge supply chain risk, as these countries can use market control to restrict access to necessary materials to build long-lasting batteries.
2. **Geopolitical issues.** This includes a host of different issues including restriction of access to resources by China; substandard materials being offered to U.S. makers of the battery cells; and human rights violations (including forced labor) or other types of corruption in countries in the supply chain.
3. **Market/economic shocks.** As demand increases, and supply struggles to keep pace, it is likely that battery prices may spike in the future. Additionally, any tax or penalties on products whose production and delivery require large CO₂ emissions could lead to secondary market related disruptions. If such policies become widespread, the price of Chinese products, in particular, could rise sharply, placing U.S. EV manufacturers at a severe disadvantage.

Key Recommendations

1. **Stimulate demand for end products using domestically manufactured high-capacity batteries.** This recommendation focuses on supporting U.S.-based demand in two sectors: (1) transportation and (2) utilities. For transportation, the Department of Energy recommends: (a) transitioning the entire federal government vehicle fleets, as well as other school and transit buses, to EVs; (b) providing rebates and tax credits for consumers (with a “Buy America” preference for U.S. content); and (c) supporting the EV charging infrastructure across the country. Likewise, for utilities, the Department of Energy recommends: (i) accelerating federal procurement of battery

- storage; (ii) expanding tax credits to include stationary storage as a stand-alone resource; and (iii) reforming power transmission regulations to support renewable power and stationary energy storage.
2. **Strengthen responsibly-sourced supplies for key advanced battery minerals.** The Department of Energy recommends: (a) that the U.S. invest in targeted, mineral-specific strategies, including supporting sustainable domestic extraction of lithium; (b) recovering nickel and cobalt from recycled or unconventional sources; and (c) working with global allies to expand global production and increase access to supplies.
 3. **Promote sustainable domestic battery materials, battery cell, and battery pack production.** This recommendation centers around financial support and investment from the U.S. government in the form of grant programs, tax credits, and federal procurement contracts. It specifically mentions leveraging the Department of Energy’s Advanced Technology Vehicle Management Loan program and reviving and expanding Section 1603 of the American Recovery and Reinvestment Tax Act (ARRTA) program to support small manufacturers in the batteries, battery cells, and related material processing supply chain.

III. Critical Minerals and Materials (Department of Defense)

Key Risks and Challenges

1. **Concentration of supply.** Strategic and critical minerals are any materials that are needed to supply the military, industrial, and essential civilian needs of the United States during a national emergency, and that are not found or produced in the U.S. in sufficient quantities to meet such need. These materials can be found in nearly every electronic device, and they support high value-added manufacturing and high-wage jobs, in sectors such as automotive and aerospace. Similar to the materials needed for high-capacity batteries, a significant portion of global production for strategic and critical minerals is concentrated in only one or a few countries (predominantly China). The lack of diversity in suppliers creates a single point of disruption for a large portion of the global supply. In some instances, the concentration of supply is so extreme that production is limited to a single source (often China).
2. **Price shocks.** The markets for critical minerals are often small and the production efforts are complex, which leads to a relatively inelastic supply. Such markets are particularly susceptible to massive price spikes and volatility.
3. **Human rights and related issues.** Production and trade of critical minerals often involve a host of concerns, including forced and child labor, violence related to conflict minerals, profiteering by non-state actors, environmental pollution, organized crime, and corruption.

Key Recommendations

1. **Expanding sustainable domestic production and processing capacity.** The Department of Defense recommends the U.S. Government work with key stakeholders from the private sector, labor, and nongovernmental organizations (NGOs) to develop sustainability metrics for critical materials. Additionally, the Department of Defense recommends the U.S. government adopt a sustainability requirement (g., a “sustainably produced” standard) for its purchasing, and develop a related Federal Acquisition Regulation (FAR) rule to establish a preference or requirement for the selection of products with higher sustainably-produced content.
2. **Deploy the Defense Production Act (DPA) and other programs to incentivize production.** The Department of Defense recommends that multiple agencies use the DPA and other existing authorities and funding to incentivize production across the critical materials supply chain, including downstream, high value-added manufacturing such as new magnet capabilities and advanced electric motor designs. The Department of Defense recommends using similar programs to support R&D efforts, such as those focused on rare earth magnet recycling capabilities.

3. **Convene industry stakeholders to expand production.** This recommendation also is related to the DPA, which authorizes the U.S. government to convene industry groups (with protection from civil and criminal anti-trust law) to coordinate business activities and form plans of action that satisfy a national need. The Department of Defense suggests convening such a group to identify opportunities to expand sustainable domestic production, and explore opportunities to create consortia or public-private partnerships for sustainable domestic processing of key strategic and critical materials.

IV. Pharmaceuticals and Active Pharmaceutical Ingredients (API) **(Department of Health and Human Services)**

Key Risks and Challenges

1. **Foreign dependence/lack of domestic manufacturing.** As with the other supply chain areas, dependence on foreign nations has been cited as a key vulnerability for the U.S. pharmaceutical supply chain. The need to acquire pharmaceutical products at the lowest cost possible has led to a consolidation of production in foreign, low-cost countries (such as India). This potentially allows foreign governments to leverage such dependency by interrupting U.S. access to these supply chains.
2. **Limited resilience.** Because of the cost and complexity of pharmaceutical manufacturing, the supply chain is particularly susceptible to disruptions. For example, shifting from an unreliable third-party source and expanding manufacturing can take significant time and require costly investment and time to obtain regulatory approvals.
3. **Limited redundancy.** Most production of the active pharmaceutical ingredients occurs outside of the U.S., and sometimes from a single source. As such, the supply chain is particularly vulnerable to changes in natural disasters or other disruptions that could occur in one country, but affect the entire supply chain. Additionally, there are a limited number of drug manufacturers per unique drug, such that the markets are highly concentrated, which can lead to increased costs.

Key Recommendations

1. **Improve supply chain transparency and incentivize resilience.** The Department of Health and Human Services recommends that any new policies seek to provide increased transparency related to the sources of drug manufacturing and the quality of the facilities that make them. This will incentivize purchasers to rely on more resilient suppliers with higher quality production and a more robust supply chain.
2. **Increase the economic sustainability of U.S. and allied drug manufacturing and distribution.** The U.S. market is often undercut by cheaper options, particularly from India and China. To increase domestic capacity for production of key drugs, the U.S. should focus on: (a) increasing the economic sustainability of U.S. and allied drug manufacturing; (b) increasing government and private sector flexibility in contracting and sourcing of finished drugs and raw materials; and (c) studying whether the current market for finished drugs supports a diversification of supply instead of relying on one or two suppliers through preferred contractual arrangements.
3. **Boost domestic production and foster international cooperation.** The Department of Health and Human Services recommends boosting domestic production with a mix of: (a) targeted investments and financial incentives (including through use of the DPA); (b) R&D to create new manufacturing technologies; (c) greater supply chain transparency; and (d) improved data collection to better understand the economics and supply chain realities.
4. **Build emergency capacity.** In addition to bolstering domestic production and creating additional supply chains with U.S. allies, the Department of Health and Human Services recommends creating a virtual stockpile of active pharmaceutical ingredients and other critical materials necessary to produce critical drugs during times of crisis.

Conclusion

- More business in these four industries/sectors (especially in the U.S.). The recommendations suggest there likely will be increased domestic investment by the Government (including tax credits and tax incentives). Overall, there seems to be recognition that domestic options may be more expensive, but that the higher price is worth the cost.
- Higher costs for foreign sourcing. The Government will be looking to increase the costs associated with foreign sourcing, making those foreign sources more expensive and thereby more competitive with the more costly domestic alternatives.
- Restrictions on Chinese imports. In particular, the Government will continue to move away from sourcing products/components/materials from China â€ˆâ€ˆ Chinaâ€ˆâ€ˆ is the great buzzword in this Report, being mentioned 458 times!
- More â€ˆâ€ˆ Buy Americaâ€ˆâ€ˆ requirements.
- More regulations.
- Implementation of the new bi-partisan infrastructure bill (announced last week), complete with its focus on public transportation options, may give us near-term insights into how some of these policies will play out over the longer term (including the push for more domestic jobs).

CHINA RARE EARTH THREAT

<https://ca.finance.yahoo.com/news/china-gears-v>

'DONT' SAY WE DIDN'T WARN YOU'

<https://uk.finance.yahoo.com/news/china-ready-l>

CHINA RARE EARTH THREAT

<https://ca.finance.yahoo.com/news/china-gears-v>

['DONT' SAY WE DIDN'T WARN YOU'](#)

<https://uk.finance.yahoo.com/news/china-ready-l>

[CHINA RARE EARTH THREAT](#)

<https://ca.finance.yahoo.com/news/china-gears-v>

['DONT' SAY WE DIDN'T WARN YOU'](#)

<https://uk.finance.yahoo.com/news/china-ready-l>

[CHINA RARE EARTH THREAT](#)

<https://ca.finance.yahoo.com/news/china-gears-v>

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RIDING IN A JET GIVES YOU MORE CANCER AND MORE EXPLODING LITHIUM ION BATTERIES

Flight attendants have a higher risk of all types of cancers, finds study

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Working as a [flight attendant](#) significantly increases your risk of a range of [cancers](#) compared to the general population, a major study of cabin crew has found.

Researchers followed more than 5,000 crew and found that their risk of [breast cancer](#) increased more than 50 per cent, while risks of stomach cancers are raised by as much as 74 per cent.

The study cannot prove what causes this increase, but the authors said increased exposure to ionising radiation from time spent in the thinner upper atmosphere as well as disrupted sleep and meal cycles could be factors.

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Published on Tuesday in the journal *Environmental Health*, the study found a higher rate of every cancer outcome it looked at when age was standardised.

“We report a higher lifetime prevalence of breast, melanoma and non-melanoma skin cancers among flight crew relative to the general population,” said Dr Irina Mordukhovich of the Harvard TH Chan School of Public Health.

“This is striking given the low rates of overweight and smoking in this occupational group.”

The increased cancer risk was seen in breast (3.4 per cent of flight crew compared to 2.3 per cent in the general population), cervical (1.0 per cent compared to 0.70 per cent), gastrointestinal (0.47 per cent compared to 0.27 per cent), and thyroid (0.67 per cent compared to 0.56 per cent).

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They also found that risk of non-melanoma skin cancers rose with every five years spent in the job.

Flight attendants are exposed to multiple known and probable [carcinogens](#) in the cabin environment. These include altitude-based radiation, disruption to the body clock through irregular and anti-social shift patterns and poor air quality inside the cabin.

Previous studies have shown cabin crew have some of the highest radiation exposure of any job, including those in [the nuclear industry](#), but this exposure is not required to be routinely monitored as in other sectors.

Many flight attendants were also exposed to high levels of secondhand tobacco smoke before inflight smoking bans were implemented.

Job tenure did not appear to be associated with breast cancer, thyroid cancer or melanoma in all women, but it was associated with higher risk of breast cancer in women who never had children and women who had three or more children, researchers said.

Any current or former US flight attendant was eligible to participate in the study, with the vast majority (91 per cent) currently employed in a cabin crew role.

The study of 5,366 attendants working on domestic and international flights in the US did not examine the health impact of frequent flying among airline passengers.

Authors said the findings suggested additional efforts should be made to minimise the risk of cancer among flight attendants, including monitoring radiation dose and organising schedules.

More about: | [Flight attendants](#) | [cabin crew](#) | [Flying](#) | [Airlines](#) | [Radiation](#) | [Cancer](#) | [Breast Cancer](#) | [skin cancer](#)

SAMSUNG SICKENS AND KILLS THOUSANDS OF LITHIUM ION BATTERY WORKERS FROM TOXIC POISONING

Samsung Electronics apologized Friday for illnesses and deaths of some of its workers, saying it failed to create a safe working environment at its computer chip and display factories.

The announcement by the South Korean technology giant came weeks after the company and a group representing ailing Samsung workers agreed to accept compensation terms suggested by a mediator and end a highly-publicized standoff that went on for more than a decade. The company's apology was part of the settlement.

Kinam Kim, president of Samsung's device solutions division, said the company failed to "sufficiently manage health threats" at its semiconductor and liquid crystal display manufacturing lines. As detailed in Associated Press reporting over the past decade, dozens of employees who worked there have experienced

grave illnesses such as leukemia and brain tumors.

"We offer our sincere apology to our workers who have suffered with illnesses and their families," Kim said during a news conference in Seoul, which was also attended by activists and relatives of the workers.

But while cutting a deal and loosely admitting to lapses in safety standards, Samsung has yet to fully acknowledge its workplace environment as the direct cause of the illnesses.

Samsung apologizes over sicknesses, deaths of some workers

Kinam Kim, President & CEO, Device Solutions, Samsung Electronics apologizes in Seoul, South Korea, Friday, Nov. 23, 2018. Samsung Electronics has apologized for the sickness and deaths of some of its workers, saying it failed to create a â€œmore

The standoff began in 2007 when taxi driver Hwang Sang-gi refused to accept a settlement after his 23-year-old daughter died of leukemia after working at a Samsung factory. Hwang's efforts to clarify the cause of Yu-mi's death and hold Samsung responsible for problems related to working conditions galvanized a broader movement to hold businesses and the government accountable for safety lapses in the chip and display industries, which use huge amounts of chemicals.

"No apology would be enough when considering the deception and humiliation we experienced (from Samsung) over the past 11 years, the pain of suffering from occupational diseases, the pain of losing loved ones," Hwang said at the news conference. "But I take today's apology as a promise from Samsung Electronics," to improve the safety of its workplaces, he said.

According to the settlement, Samsung will compensate for various illnesses of employees who have worked at its chip and LCD factories since 1984, including as much as 150 million won (\$132,000) for leukemia. The compensation also covers miscarriages and congenital illnesses of the workers' children such as child cancer.

Samsung apologizes over sicknesses, deaths of some workers

Hwang Sang-gi, right, father of former Samsung semiconductor factory worker Hwang Yu-mi who died from leukemia in 2007, Kinam Kim, left, President & CEO of Samsung Electronics Device Solutions and Kim Ji-hyung, center, a chairman of the â€œmore

Since 2008, dozens of workers have sought occupational safety compensation from the government. Few won compensation, mostly after years of court battles. Half the remaining claims were rejected and half remain under review.

Families of the victims often have depleted their savings and sold their homes to pay hospital bills. Some workers end up incapacitated and unable to work.

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Hwang Sang-gi, right, father of former Samsung semiconductor factory worker Hwang Yu-mi who died from leukemia in 2007, shakes hands with Kinam Kim, left, President & CEO of Samsung Electronics Device Solutions after Kim apologized in â€œmore

Explore further: Samsung apologizes to sickened chip workers (Update)

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[Victoria Toensing: Sessions appointed Huber 9 months ago to look into Uranium One but has not interviewed my client Doug Campbell, the FBI undercover informant for Uranium One.\(twitter.com\)](#)

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Super-high levels of toxic aluminum found in the brains of autistic patients: aluminum is present in many vaccines

Super-high levels of toxic aluminum found in brains of autistic patients

Aluminum is present in many vaccines

by Jon Rappoport

(For Part-2, [click here.](#))

Here I am printing the abstract of a new study: [“Aluminium in brain tissue in autism.”](#) The publication is Journal of Trace Elements in Medicine and Biology.

The authors of the study are associated with The Birchall Centre, Lennard-Jones Laboratories, Keele University, Staffordshire, UK; Life Sciences, Keele University; and the Department of Clinical Neuropathology, Kings College Hospital, London, UK.

From what I can see, the full text of the study has not been published yet. I’m interested to know exactly how the study authors obtained brain tissue samples from patients.

The findings? Shockingly high levels of aluminum were found in these brain samples. It’s widely acknowledged that aluminum can enter the brain and disrupt its functions.

Of course, aluminum is present in many vaccines.

Here is the abstract of the study. I’ve put several statements in caps for emphasis:

“Autism spectrum disorder is a neurodevelopmental disorder of unknown aetiology. It is suggested to involve both genetic susceptibility and environmental factors including in the latter environmental toxins. Human exposure to the environmental toxin aluminium has been linked, if tentatively, to autism spectrum disorder. Herein we have used transversely heated graphite furnace atomic absorption spectrometry to measure, for the first time, the aluminium content of brain tissue from donors with a diagnosis of autism. We have also used an aluminium-selective fluor to identify aluminium in brain tissue using fluorescence microscopy. **THE ALUMINIUM CONTENT OF BRAIN TISSUE IN AUTISM WAS CONSISTENTLY HIGH.** The mean (standard deviation) aluminium content across all 5 individuals for each lobe were 3.82(5.42), 2.30(2.00), 2.79(4.05) and 3.82(5.17) $\mu\text{g/g}$ dry wt. for the occipital, frontal, temporal and parietal lobes respectively. **THESE ARE SOME OF THE HIGHEST VALUES FOR ALUMINIUM IN HUMAN BRAIN TISSUE YET RECORDED AND ONE HAS TO QUESTION WHY, FOR EXAMPLE, THE ALUMINIUM CONTENT OF THE OCCIPITAL LOBE OF A 15 YEAR OLD BOY WOULD BE 8.74 (11.59) $\mu\text{g/g}$ dry wt.?** Aluminium-selective fluorescence microscopy was used to identify aluminium in brain tissue in 10 donors [10 donors or 5, as mentioned above?]. While aluminium was imaged associated with neurones it appeared to be present intracellularly in microglia-like cells and other inflammatory non-neuronal cells in the meninges, vasculature, grey and white matter. The pre-eminence of intracellular aluminium associated with non-neuronal cells was a standout observation in autism brain tissue and may offer clues as to both the origin of the brain aluminium as well as a putative role in autism spectrum disorder.”

The study authors mention â€œ clues.â€œ What about the many aluminum-containing childhood vaccines now on official schedules?

Worldmercuryproject.org writes:

â€œ What does this mean for todayâ€™s generation of children who receive 5,000 mcg of aluminum in vaccines by the age of 18 months and up to 5,250 additional mcg if all recommended boosters, HPV and meningitis vaccines are administered.â€œ

This might well constitute a â€œ clue,â€œ pointing to where at least some of that highly toxic aluminum in autistic brains comes from.

As â€œ the expertsâ€œ deny this vaccine-aluminum-autism connection, I would suggest they back up their â€œ scienceâ€œ by stepping forward themselves and [taking ALL the vaccines on the official schedule](#), including boosters, in order to catch up with their shots. They should do this in the limited time recommended by public health agencies.

After all, if aluminum (and other toxic substances) in vaccines arenâ€™t a problem, what do they have to lose?

Theyâ€™re desperate to mandate the full load of vaccines for every man, woman, and childâ€œ so they should start with themselves.

Otherwise, they have no standing to make claims.

Neither do â€œ science bloggersâ€œ who embrace every official mainstream study as if it were manna from heaven. To them, I offer the following quotes from two famous medical-journal editors, who have pored over more studies than these bloggers have dreamed of.

Marcia Angell, former editor of The New England Journal of Medicine, in the NY Review of Books, January 15, 2009, â€œ Drug Companies & Doctors: A Story of Corruptionâ€œ :

â€œ It is simply no longer possible to believe much of the clinical research that is published, or to rely on the judgment of trusted physicians or authoritative medical guidelines. I take no pleasure in this conclusion, which I reached slowly and reluctantly over my two decades as an editor of The New England Journal of Medicine.â€œ

Here is Richard Horton (another proâ€™s pro), editor-in-chief, The Lancet, in The Lancet, 11 April, 2015, Vol 385, â€œ Offline: What is medicineâ€™s 5 sigma?â€œ :

â€œ The case against science is straightforward: much of the scientific literature, perhaps half, may simply be untrue. Afflicted by studies with small sample sizes, tiny effects, invalid exploratory analyses, and flagrant conflicts of interest, together with an obsession for pursuing fashionable trends of dubious importance, science has taken a turn towards darknessâ€œ

â€œ The apparent endemicity of bad research behaviour is alarming. In their quest for telling a compelling story, scientists too often sculpt data to fit their preferred theory of the world. Or they retrofit hypotheses to fit their data. Journal editors deserve their fair share of criticism too. We aid and abet the worst behaviours. Our acquiescence to the impact factor fuels an unhealthy competition to win a place in a select few journals. Our love of â€œ significanceâ€œ pollutes the literature with many a statistical fairy-taleâ€œ“Journals are not the only miscreants. Universities are in a perpetual struggle for money and talentâ€œ“â€œ

I want to see more on the new study showing shocking levels of aluminum in autistic people. I want to see

funding provided to other researchersâ€ INDEPENDENT RESEARCHERS with no ties to drug companies or government agenciesâ€ so they can follow up on the new study and come to their own conclusions.

And I want to see common sense applied to aluminum toxicity.

As in: why would anyone want to inject children with a known neurotoxin?

Would you be willing to spin the roulette wheel on YOUR childâ€™s life and future and brain?

Well, would you?

(Flashback: [â€ Vaccines-aluminum-autism: but donâ€™t worry, go back to sleepâ€ .](#))

Jon Rappoport

TESLA BATTERIES ARE STARTING TO DIE GLOBALLY AS FAILED BATTERY TECH RUNS OUT OF JUICE

Felon arrested after pursuit when stolen Tesla batteries die

[charles the moderator](#) / [February 25, 2019](#)

Reader Warren E writes:

The headline says it all. Stole a Tesla. High speed chase. Battery died. Thief apprehended.
An ultimate range anxiety story.

[From The Riverside County News Source](#)

[February 21, 2019 Trevor Montgomery](#) [2 comments](#)

RIVERSIDE — A probationer who led Riverside police officers on a dangerous, high-speed pursuit in a luxury electric sports car was arrested after the plug-in car's batteries died Sunday night, Feb. 17. The pursuit, which wound its way from Riverside's Eastside neighborhood into Orange County, ended in a felony stop on the 91 Freeway.

LEADING THE RIVERSIDE HEADLINES:

[Unborn child seriously injured in Riverside wreck](#)

[UPDATE: Search ongoing for Riverside sex assault suspect](#)

[UPDATE: Riverside man, 51, fatally stabbed at Shamel Park ID'd](#)

Riverside police officers were first alerted to the vehicle theft around 7:45 p.m., after the owner of an electric-powered Tesla called 911 to report his car had just been stolen from a parking garage on the 1400 block of Everton Pl.

With an app available to Tesla owners, the victim was able to track his stolen vehicle from his phone, and immediately began providing officers with "real-time" updates of the car's movements, Riverside PD later explained.

Based on those updates, a responding officer quickly spotted the car as it was exiting the 91 Freeway at Adams St. But as officers prepared to conduct a traffic stop, the driver of the stolen vehicle, later identified as Filiberto Felix, 30-years-old of Riverside, refused to yield and sped away from officers.

Officials initiated a vehicle pursuit that first traveled through the city streets. Felix then got back onto the freeway before once again exiting at Magnolia Ave. The fleeing man continued to lead officers on pursuit as he traveled up La Sierra Ave. to Cajalco Rd., then to the 15 Freeway.

During the chase, Felix drove without regard for the safety of officers or other citizens and the ground pursuit was eventually deemed too dangerous to continue and patrol officers backed out of the chase; allowing the department's Air Support Unit, Air-1 to take over.

Felix eventually got onto the westbound 91 freeway and headed into Orange County, where the luxury car's batteries eventually died, leaving the fleeing man stranded. With his stolen ride's batteries dead, CHP quickly moved in and conducted a high-risk stop and arrested the car thief. CHP later turned the alleged suspect over to RPD officers.

We don't know if all the high-speed and reckless driving caused the Tesla's battery to go low, or if it didn't have a full charge when stolen, but the owner said the battery was dying which caused the driver to stop on the freeway," RPD later explained.

THE DEADLY LITHIUM BATTERY POLITICAL PROFITEERING LIES OF THE DEPARTMENT OF ENERGY

- Stanford Engineering Research

Key highlights from the report:

Lithium batteries: Explosive, deadly, home-burning, worker poisoning, genocide-causing, child-labor-produced, fetus mutating chemicals, give off cancer causing smoke when they burn, controlled by China...and worse...

When you smell smoke in the cabin of your airplane or commute bus, it was an exploding lithium ion battery that has just exposed you to cancer causing, brain damaging, fetus mutating, liver cancer causing chemicals in the air from that thermal event.

The Mine-To-Wheelbase cost of lithium batteries, as opposed to NICAD and other batteries, is the most expensive in the world, of any energy storage option, and gets more expensive every year. When you include in the costs the: poisoned workers medical costs; the replacement costs of the homes and offices destroyed by lithium ion fires and explosions; the Congo genocides and child labor; the wars to get those minerals from foreign nations that hate the U.S.; the mitigation expenses from the toxins in the soil from dumping the depleted batteries and other costs lithium ion batteries are LITERALLY the worst option on Earth!

Fuel Cell electric cars solve all of the problems of lithium ion electric cars but DNC billionaires own the mines for lithium ion batteries, so they sabotage and blockade fuel cell electric cars. As warned, there is not enough lithium ion to solve America's electric car problem and the whole lithium ion electric car industry has crashed as everyone realizes that what they were warned about lithium ion is true.

Corrupt political families conspire to give government funds, contracts, tax waivers, buildings, stock market profits and other insider perks to themselves and their friends. They also conspire to blockade, harm, sabotage and black-list those who compete with them and their friends. These corrupt politicians are never prosecuted for their crimes, and can laugh in the face of those who point out their crimes, because they control the prosecution system. Their Quid Pro Quo criminal corruption is the single largest cause of the taxpayer hatred of Congress.

The Russian's left mining "Treasure Maps" behind in Afghanistan. But; were those â€œ Treasure Mapsâ€œ a trick or a treat? The maps claimed to show ten trillion dollars of electric car minerals hidden in the Afghan desert... but was that all a lie?

To this day, controversy exists across the intelligence communities, of many nations, about whether, or not, those maps were a scam created to â€œ trick the Americanâ€œ sâ€œ or the actual locations of trillions of dollars of mining deals that were â€œ antibody's for the takingâ€œ . The papers that the CIA geologists pulled out of that archival library in Kabul, Afghanistan still read to be a bit too convenient for what happened next.

Decades later, after an invasion or two, and vast expenditures of cash, political capitol and lives, very little of the promised golden mining treasure has materialized. What has materialized is epic corruption, political

payola, campaign secrets, deaths and controversy.

Goldman Sachs, McKinsey Consulting and Deloitte helped a few rogue CIA buddies distribute a huge number of white papers and press releases which used the buzz words: “ Trillions of dollars of lithium in Afghanistan” and “ Afghanistan is the Saudi Arabia of Lithium” . Why would those particular companies put so much effort into hyping a pile of dirt on the other side of the planet?The answer lies in who they hyped it to and who took the bait. It turns out, most of the money that flowed through this (probable) scam financed the Obama campaign.

It also turns out that those who skimmed profits from this vast flowing river of corruption sludge were Elon Musk, John Doerr, Eric Schmidt, Steve Jurvetson and the very pack of investors who co-funded the Obama campaign. They were also the very same people who, exclusively, got the only cash from the Obama Administration. Mining Oligarch Frank Guistra became notorious for his involvement in White House matters.

They are also the very same people who had partnered with the Russian mining companies who were standing by to go back into Afghanistan to dig up this magical dirt-pile. Where “ covert mining deals” were never a big election deal, in 2016, thanks to some monumental document leaks, they became one of the biggest deals in U.S. history..and not in a good way.

Lithium ion batteries are blowing up, starting fires and, generally, destroying people’s homes, cars, electronics and physical health. Boeing was just ordered to stop flying the 787 Dreamliner because it's Lithium ion batteries are catching fire spontaneously.

A group of silicon valley venture capitalists forced/leveraged the government to buy and pay for these specific batteries, that they have stock in, in order to benefit their profit margins. Other batteries don’t have these problems. They knew about this from day one but put greed ahead of safety. There are thousands and thousands of reports of spontaneous lithium ion fires but the VC's who back lithium ion pay to keep this information hushed up.

Millions of these batteries have been recalled for fire risk. The VC's tried to push as many as they could before they got caught. Now they are caught.

These links show vast sets of Fisker electric cars that burst into flames just because they GOT WET:

<http://updates.jalopnik.com/post/34669789863/more-than-a-dozen-fisker-karma-hybrids-caught-fire-and>

<http://green.autoblog.com/2012/08/12/fisker-flambe-second-karma-spontaneously-combusts-w-video/>

<http://www.autoblog.com/2012/11/05/how-sandy-may-have-set-17-plug-in-hybrids-on-fire/>

<http://www.digitaltrends.com/cars/fisker-karma-spontaneously-combusts/>

<http://cbdakota.wordpress.com/2012/11/07/fisker-karmas-catch-fire-following-inundation-by-sandy/>

<http://www.engadget.com/2012/08/12/fisker-karma-hybrid-ev-second-fire/>

<http://www.techfever.net/2012/08/fisker-karma-hybrid-ev-ignites-while-parked/>

<http://evmc2.wordpress.com/2012/11/04/fisker-karma-fire-report/>

<http://fellowshipofminds.wordpress.com/2012/05/12/karma-burns-owners-mansion/>

<http://www.carbuzz.com/news/2012/11/1/Karmas-Ignite-After-Hurricane-Floods-Newark-Port-7711437/>

There are vast sets of other links proving the point.

Tesla Motors has filed a patent which states the following , THESE ARE TESLA MOTORS WORDS warning about a crisis, the level of which they never disclosed to the consumer:

“ Thermal runaway is of major concern since a single incident can lead to significant property damage and, in some circumstances, bodily harm or loss of life. When a battery undergoes thermal runaway, it typically emits a large quantity of smoke, jets of flaming liquid electrolyte, and sufficient heat to lead to the combustion and destruction of materials in close proximity to the cell. If the cell undergoing thermal runaway is surrounded by one or more additional cells as is typical in a battery pack, then a single thermal runaway event can quickly lead to the thermal runaway of multiple cells which, in turn, can lead to much more extensive collateral damage. Regardless of whether a single cell or multiple cells are undergoing this phenomenon, if the initial fire is not extinguished immediately, subsequent fires may be caused that dramatically expand the degree of property damage. For example, the thermal runaway of a battery within an unattended laptop will likely result in not only the destruction of the laptop, but also at least partial destruction of its surroundings, e.g., home, office, car, laboratory, etc. If the laptop is on-board an aircraft, for example within the cargo hold or a luggage compartment, the ensuing smoke and fire may lead to an emergency landing or, under more dire conditions, a crash landing. Similarly, the thermal runaway of one or more batteries within the battery pack of a hybrid or electric vehicle may destroy not only the car, but may lead to a car wreck if the car is being driven or the destruction of its surroundings if the car is parked.”

Tesla's own staff have now admitted that once a lithium ion fire gets started in one of their cars, it is almost impossible to extinguish burning lithium ion material. This is Telsa's own words in THEIR patent filing, (You can look it up online) saying that the risk is monumental. Tesla has 6800 lithium ion batteries, any one of which can “ go thermal” and start a chain reaction! If you look at all of the referenced YOUTUBE movies you will see how easy it is to set these things into danger mode.

Imagine a car crash with a Tesla where these 6800 batteries get slammed all over and then exposed to rain, fire hose water, water on the roads, cooling system liquid.. OMG!! And then if, in that same accident the other car is a gasoline car“ getting burned alive sounds “ BAD” ! Telsa is covering up the problems with its batteries.

LION batteries have already crashed a UPS plane and killed people. Look here:

<http://washingtonexaminer.com/dreamliner-fires-spark-new-doubts-about-a-green-energy-technology/article/2519353>

Tesla and Fisker have only sold a few hundred cars, (thank god) because nobody but dicks want these overpriced eliteist toys. A regular car company sells hundreds of thousands of cars per model. Every single Tesla or Fisker sold increases the likelihood of a burn up. Those burn-ups will affect the homes, cars and lives of the people next door who never even bought one.

Go to <http://www.youtube.com> and type into the search window:

“ Lithium ion explosion” or “ lithium battery and water” or “ lithium ion water” and any related derivation and you will hundreds of videos about how dangerous these batteries are.

This article in the LA Times sheds more light of the horrors of Lithium Ion:

<http://articles.latimes.com/2013/jan/18/business/la-fi-dreamliner-battery-20130119>

Lithium Ion batteries “ go thermal” in peoples pockets, in your notebook, especially in your Tesla and

Fisker car and everywhere else. There are thousands and thousands of articles documenting this and there is a cover-up by the VC's that fund these things to keep this fact out-of-sight.

Making Lithium Ion batteries poisons the workers who make them. It is a dangerous product. Each time the workers, particularly in Asia, realize they are being poisoned by the factory, they jack up the product.

In the report: The Afghanistan Mining Scam Failure, G.I. Dough - The U.S. Spent a Half Billion on Mining in Afghanistan With â€œ Limited Progressâ€œ - Megan McCloskey reveals that ProPublica is investigating how billions of U.S. tax dollars have been spent on questionable or failed projects and how those responsible for this waste are rarely held accountable.

The Military Built Another Multimillion-Dollar Building in Afghanistan That No One Used The United States has spent nearly half a billion dollars and five years developing Afghanistan's oil, gas and minerals industries and has little to show for it, a government watchdog reported today.

The project's failings are the result of poorly planned programs, inadequate infrastructure and a challenging partnership with the Afghan government, the Special Inspector General for Afghanistan Reconstruction wrote in its newest damning assessment of U.S. efforts in the war-torn country. The finding comes after some 200 SIGAR reports have detailed inefficient, unsuccessful or downright wasteful reconstruction projects. A recent ProPublica analysis of the reports found that there has been at least \$17 billion in questionable spending.

We Blew \$17 Billion Hunting Electric Car Battery Minerals In Afghanistan. How Would You Have Spent It?

Here's just what the Special Inspector General for Afghanistan Reconstruction found. See for yourself how that money could have been used at home. Explore the app. The United States Agency for International Development and a Pentagon task force were in charge of developing a so-called â€œ extractiveâ€œ industry in Afghanistan â€œ basically a system for getting precious resources out of the ground and to the commercial market. SIGAR called out both USAID and the Defense Department last year for their failures to coordinate and to ascertain the ability of Afghans to sustain the project, which unsurprisingly is not promising. In fact, when international aid stopped supporting the Afghan office responsible for oversight of the petroleum and natural gas industries, two-thirds of the staff were fired.

Exploiting these resources, which are estimated to be worth as much as \$1 trillion, is pivotal to Afghanistan's economic future. SIGAR noted that the Afghan government has shown progress under USAID's tutelage in regulating and developing the commercial export of the resources. But the report said the project was still hampered by corruption, structural problems and a lack of infrastructure for the mining industry, such as reliable roads. Many of the mines operate illegally, with some profit going to the insurgency, SIGAR said.

When it came to individual extractive projects, there was little progress made, the IG found.

The controversial Pentagon task force in charge of much of the effort, the Task Force for Business Stability Operations, spent \$215 million on 11 extractive programs, but â€œ after operating in Afghanistan for 5 years, TFBSO left with nearly all of its extractive projects incomplete,â€œ SIGAR found. Three of the programs technically met objectives, but one of those is of questionable value at best. The task force built a gas station for an outrageously inflated cost and in the end it didn't have any customers.

So while the objective to create the station was achieved, SIGAR doubted it was a worthwhile venture.

The task force, made up of mostly civilian business experts and designed to develop the Afghan economy, has come under fire from SIGAR and Congress for demanding unusual and expensive accommodations in the country, allegedly punishing a whistleblower, and lacking overall accountability. The Senate is holding a hearing on the task force. In today's report, SIGAR highlighted that the task force spent \$46.5 million to try to convince companies to agree to develop the resources, but not one ended up signing a contract. About \$122 million worth of task force programs had mixed results, SIGAR said.

The Defense Department declined SIGAR's request to comment on its findings. In its response, USAID said it has helped Afghanistan "enact investor-friendly extractive legislation, improve the ability to market, negotiate and regulate contracts, and generate geological data to identify areas of interest to attract investors." Any conclusions and criticisms, USAID told SIGAR, "need to be substantially tempered by the reality that mining is a long-term endeavor." daily newsletter to get more of our best work.Megan McCloskey

WHY A WEBSITE COMPANY DESPERATELY WANTS TO PUSH ELECTRIC CARS! GOOGLE'S AWFUL SECRET

Google's owners got an exclusive kickback scam between themselves and the White House over lithium ion batteries ravaged from war profiteering in Afghanistan, political rigging in Bolivia and other war incursions. Google wants to push electric cars to keep it's owners political payola scams alive and to payola taxpayer cash to Obama/Biden political financiers.Deadly, toxic, explosive, a risk to national security, fetus damaging...yet Google charged full speed ahead into it..Obama administration to announce efforts to boost self- driving cars

By David Shepardson
Reuters

DETROIT (Reuters) - The Obama administration will announce efforts to boost self-driving cars on Thursday, and President Barack Obama may discuss advanced transportation efforts in his final State of the Union Address on Tuesday, according to government officials. Mark Rosekind, head of the National Highway Traffic Safety Administration, told reporters that Transportation Secretary Anthony Foxx will be in Detroit to talk about efforts by the Obama administration to speed the introduction of self-driving vehicles.

"This is huge because this is the White House telling you that the secretary is going to be here to amplify stuff that is coming out of the State of the Union, and it's focused on self-driving cars," Rosekind told reporters in Detroit.

There is not yet a clear legal framework governing their presence on U.S. roads. Automakers and technology companies such as Alphabet Inc's Google have called on regulators to clarify guidelines for introduction of autonomous driving technology, in part out of concern that a mishap involving a self-driving car could result in costly litigation. A Google spokesman said the company will take part in Thursday's announcement by Foxx. Detroit automakers are also likely to participate.

In December, Rosekind said he opposes a "patchwork" of state regulations on driverless cars and promised a "nimble, flexible" approach to writing new rules for self-driving vehicles.(Reporting by David Shepardson; Editing by Bill Rigby and Dan Grebler)

Google Seeks Multiple Auto Partners for Self-Driving Car Unit That Will Seek Taxpayer Cash

Dana Hull danahull

John Lippert johnmlippert

- Company wants to begin announcing some joint efforts this year
- Google vehicle chief John Krafcik speaks at Detroit meeting

Google hopes to form partnerships with many automakers and suppliers as it develops self-driving cars to reduce traffic accidents and expand mobility for elderly and disabled people, the head of its vehicle project said.

Google wants to spy on you inside of, and around, its cars.

The Alphabet Inc. company wants to announce some of those joint efforts during 2016, John Krafcik, the Google executive, said in Detroit at an Automotive News conference Tuesday held in conjunction with North American International Auto Show. Almost every automaker "has been in to speak with us, if only to understand where we are," Krafcik, said. "I don't know how many we'll end up having."

His comments counter speculation that Google would pick a single automaker as its exclusive partner for self-driving cars. Yahoo Autos reported last month that Ford Motor Co. would announce a joint venture with Google on self-driving. Fiat Chrysler Automobiles NV and General Motors Co. have also said they're talking with Google about developing self-driving cars. Google's owns mining interests related to these cars and gets political perks from them.

Google Hires Former Obama Adviser Atkinson to Lead Global Policy In order To Control Politics On Electric Cars And Energy Mines

Jack Clark

- Caroline Atkinson was deputy national security adviser
- Company faces probes in Europe and U.S. as influence grows

Google has hired former White House Deputy National Security Adviser Caroline Atkinson to lead its global policy team as the Internet advertising giant seeks an advocate to deal with regulators around the world.

Atkinson, 63, stepped down in December from her post in U.S. President Barack Obama's administration as an emissary to the Group of 20 economies, negotiating behind-the-scenes on agreements of international scope and significance. Google, a unit of Alphabet Inc., currently faces probes from both federal and European regulators into its businesses, as the company's increasing influence over areas like mobile phones and Web search draws scrutiny. "Caroline's an internationally respected diplomat and adviser, and we're delighted to have such a thoughtful leader heading our global policy team," Google General Counsel Kent Walker said in a statement.

Atkinson also previously worked at the National Security Council, the International Monetary Fund, the Treasury Department, and investor consultancy Stonebridge International. She was selected by the Obama administration in June 2013. Her job is to manipulate politics and oligarch interests in spite of what the

citizens wants, or need.

1. <https://www.cnn.com/2021/08/18/business/afghanistan-lithium-rare-earths-mining/index.html>

1. **The Taliban are sitting on \$1 trillion worth of minerals the world ...**

Aug 18, 2021 Right now, minerals generate just \$1 billion in Afghanistan per year, according to Khan. He estimates that 30% to 40% has been siphoned off by corruption, as well as by warlords and the Taliban ...

2. <https://www.independent.co.uk/asia/south-asia/afghanistan-minerals-lithium-mining-taliban-b1905169.html>

1. **What's going to happen to Afghanistan's untapped mineral wealth worth ...**

In 2010, a report by US military experts and geologists estimated that Afghanistan was sitting on nearly \$1 trillion (Â£730 billion) in mineral wealth. A huge amount of iron, copper, gold, cobalt ...

3. <https://www.theguardian.com/commentisfree/2021/aug/30/afghanistan-us-corruption-taliban>

1. **Afghanistan collapsed because corruption had hollowed out the state ...**

Aug 30, 2021 An estimated \$1tn worth of minerals lies buried under the country's surface. Before the Taliban takeover, Afghan law prohibited companies from buying minerals from small unregistered mines. One ...

4. <https://www.aljazeera.com/news/2021/8/24/as-us-exits-afghanistan-china-eyes-1-trillion-in-minerals>

1. **As US exits Afghanistan, China eyes \$1 trillion in minerals**

Washington has already frozen nearly \$9.5 billion in Afghanistan's reserves and the International Monetary Fund has cut off financing for Afghanistan, including nearly \$500 million that was...

5. <https://www.brookings.edu/articles/chinese-investment-in-afghanistans-lithium-sector-a-long-shot-in-the-short-term>

1. **Chinese investment in Afghanistan's lithium sector: A ... - Brookings**

Aug 3, 2022 August 3, 2022 12 min read Speculation is mounting that China will take advantage of the power vacuum created by the 2021 U.S. withdrawal from Afghanistan and seek dominance over that country's...

6. <https://www.latimes.com/world-nation/story/2022-11-03/afghanistan-mining-minerals-economic-hope>

1. **Afghanistan has chromite, lithium. The Taliban wants to cash in - Los ...**

Nov 3, 2022 "Look there. See that black line?" he said. "That's chromite." An explosion thumped in the distance. Massoud looked up, but appeared unconcerned. "That's not fighting. We're mining with

the...

7. <https://www.voanews.com/a/taliban-arrest-chinese-nationals-for-allegedly-smuggling-afghan-lithium-6928878.html>

1. **Taliban Arrest Chinese Nationals for Allegedly Smuggling Afghan Lithium**

Jan 22, 2023 Afghanistan reportedly sits on an estimated \$1 trillion worth of rare earth minerals, including huge deposits of lithium, but decades of war have prevented the development of Afghan mining ...

8. <https://foreignpolicy.com/2021/09/28/afghanistan-china-rare-earth-minerals-latin-america-lithium>

1. **China Isn't Plundering Afghanistan's Mineral Wealth - Foreign Policy**

Argument An expert's point of view on a current event. Afghanistan Is No Treasure Trove for China
The country's mineral wealth remains largely theoretical.

9. <https://foreignpolicy.com/2023/04/24/china-afghanistan-lithium-critical-minerals-taliban-energy-environment>

1. **Afghanistan: China Wants the Taliban's Critical Mineral Mines**

Apr 24, 2023 April 24, 2023, 3:57 PM. China, once again, seems to be mucking about in Afghanistan's mineral-rich playground. The latest move is a maybe, could-be deal worth billions to tap Afghanistan's ...

10. <https://www.washingtonpost.com/world/interactive/2023/ev-lithium-afghanistan-taliban-china>

1. **Trove of EV metals in Afghanistan may boost Taliban and Chinese ...**

Jul 20, 2023 Soon after, the Afghan government imposed what it said was a temporary ban on private lithium sales while negotiating with mining companies and crafting new laws to regulate what had become a ...

The Future Of Corrupt Silicon Valley Cronyism May Lie In The Mountains Of Afghanistan

Richard Byrne Reilly

Tags: Andrew Chung, Apple, Donald R. Sadoway, editor's pick, Jay Jacobs, Khosla Ventures, lithium, Lithium Exploration Group, lithium-ion batteries, Michel Chossudovsky, Tesla, Tesla Motors, top- stories

The future of Silicon Valley's technological prowess may well lie in the war-scarred mountains and salt flats of Western Afghanistan. United States Geological Survey teams discovered one of the world's largest untapped reserves of lithium there six years ago. The USGS was scouting the volatile country at the behest of the U.S.

Department of Defense's Task Force for Business and Stability Operations. Lithium is a soft metal used to make the lithium-ion and lithium-polymer batteries essential for powering desktop computers, laptops, smartphones, and tablets. And increasingly, electric cars like Tesla's. The vast discovery could very well propel Afghanistan—a war-ravaged land with a population of 31 million largely uneducated Pashtuns and Tajiks, and whose primary exports today are opium, hashish, and marijuana—into becoming the world's next Saudi Arabia of lithium, according to an internal Pentagon memo cited by the New York Times.

The USGS survey report on Afghanistan that detailed the findings also noted that, in addition to lithium, the country also contains huge deposits of iron ore, gold, cobalt, copper, and potash, among many other valuable minerals.

"The mineral wealth there is astonishing," said professor Michel Chossudovsky of the Montreal-based Center for Research and Globalization, who has written extensively on Afghanistan. A conservative estimate of the riches is \$1 trillion. In some circles, it's as high as \$5 trillion. Above: A typical lithium button cell found in many small electronics.

In Silicon Valley and beyond, tech companies like Apple, Google, Amazon, Microsoft, Hewlett-Packard, Samsung, Sony, and Tesla rely on continual, and uninterrupted, access to lithium, as lithium-based batteries are the primary power storage devices in their mobile hardware. Without these batteries, MacBooks, iPads, iPhones, Kindles, Nooks, Galaxy IIIs, Chromebooks, and, yes, Tesla Model S cars would be largely worthless. If forced to use older, nonlithium batteries, their battery lives would certainly be much shorter.

The world's current lithium heavyweight is Bolivia, the biggest exporter of the element. There, in the swamps and marshlands of the southern region of the country near where the borders of Chile and Argentina meet, are the biggest deposits.

Canada, China, Australia, and Serbia also have varying amounts of lithium, but not as much as Bolivia. Or apparently, Afghanistan. Enough to last a lifetime Depending on who you talk to, the current lithium global reserves are adequate for at least another generation of lithium-ion battery manufacturers to produce them.

But not everybody thinks so, and some say the light metal compound may someday run dry. That could in turn spell trouble for any company whose business depends on light and portable mobile electronics—unless someone comes up with an alternative to lithium batteries before then.

The experts VentureBeat interviewed pointed to sharp year-on-year increases in the demand for lithium. That's putting heavy pressure on existing stockpiles. According to Lithium Americas, a Canadian lithium-mining company with significant business interests in Argentina, lithium demand will more than double in the next 10 years, while lithium prices have nearly quadrupled during the same timeframe.

Tesla, for its part, is in the process of investing up to \$5 billion to build its own lithium-ion Gigafactory in Texas, a plant capable of churning out 500,000 expensive battery packs a year by 2020 for its line of zero-emission, all-electric cars. Above: Tesla predicts that its "Gigafactory" will produce more lithium batteries (by capacity) in 2020 than the entire global production of such batteries in 2013.

A Tesla spokeswoman did not return calls seeking comment. As a potential source to feed that demand, enter Afghanistan. "At some point, if present trends continue, demand [for lithium] will outstrip the supply. And again, at some point, the market for lithium-ion could get so big that it actually affects the supply chain," said.

Donald R. Sadoway, a professor of the Materials Chemistry Department of Materials Science and Engineering at MIT.

Looking at Afghanistan, Sadoway says the war-ravaged nation, which has no effective mining infrastructure in place, may well be attractive to the world's mining outfits. "In this regard," Sadoway, one of the world's foremost experts on energy sources, says, "the deposits in Afghanistan could be important."

Andrew Chung, a venture capitalist with Khosla Ventures in Silicon Valley who has invested in multiple startups producing alternative batteries, says lithium-ion batteries are limited in their lifetime cycles, scalability, and cost. Despite this, Chung says, he can understand how the untapped reserves of Afghan lithium are now an increasing focus.

"It is an issue of the supply chain, whether it's Afghanistan or other [countries]. There is a finite supply, and lithium-ion will continue to be the [power] choice for the next decade," Chung said.

Some of the Valley's biggest and most powerful tech companies either declined to comment for this story or never returned calls. But they didn't deny the importance of lithium-ion batteries.

For instance, an Apple spokesperson declined to comment for this story but provided VentureBeat with a 2014 "Suppliers List" of the 200-plus vendors it uses to produce its products. A related post made the Cupertino, Calif.-based company's commitment to lithium batteries clear, at least in the short term.

"Rechargeable, lithium-based technology currently provides the best performance for your Apple notebook computer, iPod, iPhone, or iPad," the Apple post says.

Sony Energy Devices Corp. invented the lithium-ion battery in 1994. It was hailed as a breakthrough, providing longer battery life and without the "memory effect" that gradually reduced the effective capacity of previous types of batteries. Since then, companies have gradually refined lithium battery technology but have not succeeded in moving beyond it. Indeed, early Tesla cars are actually powered by large packs of industry-standard lithium-ion battery cells "the same type of cells found in many laptop batteries. And here is where it gets interesting.

Sharply increasing demand

The custom battery pack Tesla uses for its Tesla Model S. Inside are hundreds of lithium cells.

If electric car manufacturers begin ramping up production of lithium-ion battery-powered cars, the global demand for lithium will skyrocket. This could potentially come about at the same time for increasing demand for handheld consumer goods like tablets and laptops, Chung said, thus creating a perfect storm.

"So you want to start looking at other sources producing it with current supplies being called into question, if we move more toward production of electric cars," Chung said. Which is why, increasingly, eyes are turning to Afghanistan and its new purported lithium reserves, a country long referred to as the "graveyard of empires." The U.S. invaded Afghanistan after the terror attacks of Sept. 11, 2001, and according to iCasualties, 2,315 American servicemen and women have been killed there.

Analyst Jay Jacobs of Global X Funds in New York, which has interests in lithium mining, said demand for the compound is growing, and that "there are two regions that have been revealed to contain huge lithium reserves: Afghanistan and Bolivia."

William Tahil, a respected lithium expert who lives in France and is the general director for Material International Research, argues that lithium deposits in Bolivia will at some point be depleted. Jacobs was sanguine about safely extracting lithium from Afghanistan. He said political risks there were considerable. "With that being said, should there be a substantial and sustained increase in demand for lithium, lithium

miners may become increasingly interested in the country as it has an abundance of the resource,” Jacobs said.

It was the Soviets who first discovered the country’s deposits when they invaded in 1979. Soviet geologists began mapping Afghanistan’s lithium, gold, and potash fields but abandoned their efforts after the former communist superpower pulled out of the country in 1989.

But with a weak and corruption-plagued central government, Afghanistan is now ripe for the picking, Chossudovsky said. Indeed, the country is still very much divided into fiefdoms, with the Muslim fundamentalist Taliban, warlords, and drug traffickers controlling large swaths of the country and using violence to advance their interests. “There’s no question the mining companies will go in there. No question. There’s no real functioning government there to reap the foreign investment of the mineral deposits. This makes it all the more enticing to the mining companies because nobody in the government of [President] Hamid Karzai will be regulating the bonanza of lithium, so they can do what they want,” he said.

Jockeying For Position

For its part, the U.S. government, which helped locate the lithium deposits using flyovers with a sensor-filled Lockheed P-3 Orion and teams of geologists fielding soil samples, knows a potential gold rush when it sees one. And it has no intention of being left on the sidelines. Especially since the Chinese are now and quickly making deals with Afghan pols for mineral rights to copper deposits.

The USGS did return multiple calls seeking comment. Nor did the Pentagon. Despite what some say are the shortcomings of lithium-ion batteries, venture capitalists and investors continue pouring money into them. Amprius, a lithium battery maker based in Sunnyvale, Calif., snared a \$30 million infusion round of investor cash in January. Over at the Afghan embassy in Washington, D.C., the Afghans are licking their lips at the potential lithium and mineral windfall despite the country’s continued conflict with a resurgent Taliban. What this may portend for the impoverished and war-torn nation is anybody’s guess. But the Afghans are playing up the finds or they were, until recently.

“In recent years, headlines from the Afghan mineral sector have competed to outdo each other in scale: from the landmark \$3 billion Chinese investment in the Aynak copper concession to the astounding survey work of the U.S., Afghan, and British Geological Services estimating anywhere between \$1 trillion and \$3 trillion in mineral potential, to the historic \$11 billion deal now being finalized with an Indian consortium for the Hajigak iron ore concession,” said a posting on the Afghani Washington DC website.

Afghanistan’s ambassador to the U.S., Eklil Hakimi, presided over a press conference at the Afghan embassy in Washington, D.C., on March 10, where he talked about the untapped deposits, along with reps from the USGS and other U.S. politicians. But Hakimi, through a spokesman, told me he simply didn’t have the time to talk.

Key exploiters of Lithium ion mines: Apple, Goldman Sachs, Tesla Motors, Lithium Exploration Group, Khosla Ventures

Scientists Discover That Lithium Ion Batteries Grow More Explosive Over Time

- Using lithium ion batteries in cars, hover-boards and other high tasking systems FORCES them to blow up more
- Chemicals degrade into more self-igniting states over time
- Use in a system with electric motors dramatically increases likelihood of explosions, self-ignition and

- release of cancer-causing, brain damaging fumes that can harm un-born infants
- Exposure to electric fields, high altitude radiation and water in air causes very much increased danger parameters
- Cover-up of safety issues charged because many Senators and Energy Department executives own stocks in Lithium Ion batteries
- Public welfare at risk due to political greed, per <http://lithium-ion.weebly.com/>
- Combining the type of chemicals that lithium ion batteries hold is like "making a blasting cap" warn researchers

Over 1000 Reasons Why Lithium-ion Is a DEADLY, CRIMINAL, VERY BAD THING! - (LINK)

Lithium ion batteries, when they burn, cause brain cancer, liver cancer and other, potentially lethal, toxic poisoning. Certain regulators are told to "ignore these issues" because certain lithium ion investors donated cash to certain campaigns.

The chemicals for lithium ion batteries come from countries which needed to be invaded in order to monopolize the mining of those chemicals. Certain politicians are told to "ignore these issues" because certain lithium ion investors engaged in war profiteering in order to control those minerals.

The FAA has issued numerous warnings and videos showing that lithium ion batteries do spontaneously self-ignite and crash airplanes. Numerous people have been killed in lithium ion plane crashes. Certain regulators are told to "ignore these issues" because certain lithium ion investors donated cash to certain campaigns.

Lithium ion batteries have self-ignited and set numerous children and senior citizens on fire. They have set homes on fire. They have set offices on fire. They have set Apple Stores on fire. You constantly hear about passenger airlines being forced to land because passengers "smell smoke in the cabin". This is almost always a lithium ion battery going off in the cabin and exposing all of the passengers to its carcinogenic ignition vapors.

Silicon Valley investors took over the lithium ion battery market, along with Goldman Sachs, because they knew they were getting large government hand-outs from the Department of Energy in exchange for campaign contributions.

Lithium ion batteries lose their power and memory over a relatively short time.

Lithium ion batteries blow up when they get wet or bumped. Fisker Motors went out of business when millions of dollars of Fisker cars, using lithium ion batteries, got wet and all blew up.

Tesla battery packs have blown up, on multiple occasions, from simply hitting bumps in the road.

Manufacturing these kinds of batteries is so toxic that even China, a country known for the most minimal regulations, has closed a huge number of battery factories because of the massive numbers of deaths they caused to workers and nearby residents.

Journalists have published a glut of articles exposing cover-ups about the dangers and corruption involved with lithium ion batteries. The U.S. Government and numerous groups have filed charges against Panasonic, and similar battery companies for bribery, corruption, dumping, price fixing and other unethical tactics.

Every key investor in lithium ion was also a campaign donor who also received huge federal cash from the Department of Energy in the same funding cycle in which they paid campaign contributions.

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- TESLA ELECTRIC CARS HAVE EVEN MORE BATTERIES PACKED INTO THEM THAN THE 5000 BATTERIES TESTED IN THE DEADLY FEDERAL VIDEO. TESLA'S AND FISKERS HAVE ALREADY CAUSED TENS OF MILLIONS OF DOLLARS IN FIRE DAMAGES AND EXPLOSIONS.

- MALAYSIAN AIRLINES FLIGHT MH370 KNOWN TO HAVE BEEN CARRYING HUGE LOAD OF LITHIUM ION BATTERIES

- "LITHIUM-ION BATTERIES WILL SELF-IGNITE" SAY FEDS!. THE FORCE OF "MULTIPLE HAND-GRENADES"... AIRLINE PILOTS UNIONS DEMAND ACTION!

- TESLA'S OWN PATENT FILINGS SAY THEIR BATTERIES ARE "SUBJECT TO DEADLY EXPLOSIONS AND FIRES"! THAT IS WHY TESLA GAVE THEIR PATENTS AWAY.

- FISKER LITHIUM ION ELECTRIC CARS SIMPLY EXPLODED WHEN THEY GOT WET!

- NHTSA COVER-UP CHARGED. STAFF SAY NHTSA HEAD, ERICK STRICKLAND, COVERED UP THE KNOWLEDGE TO PROTECT OBAMA CAMPAIGN BACKERS WHO OWNED LITHIUM ION STOCK

SEE THE SHOCKING VIDEO AT:

<http://www.thenewsdaily.org/federal-govt-releases-video-report-proving-deadly-threat-lithium-ion-batteries-teslas-airli>

Over 1000 Reasonâ€ s Why Lithium-ion Is a DEADLY, CRIMINAL, VERY BAD THING!Why is such a dangerous thing being promoted with your tax dollars while those same tax dollars are being used to cover up these dangers? Letâ€ s discussâ€ ;

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This will be an on ongoing project article. New additions will be added as the team receive tips and data. Keep checking back. This article is currently in draft form (Note: if you count all of the items below, plus all of the

items at the end of each link below, there are now over 2000 reasonsâ€ but whoâ€ s counting):

Please print this article out and send it every Senator, Congressman and Mayor and ask them to tell you what they are doing about it!

ALSO SEE THESE VERY BIG INVESTIGATIONS:

<http://scandal-sheet.com/ripsheet-tv-investigation-videos/lithium-ion-toxic-explosive-covered/>

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SEE THE LATEST COLLABORATIVE DOCUMENTARY ON THE LITHIUM ION SCAM AT:

[HTTP://WWW.RIPSHEETNEWS.COM](http://www.ripsheetnews.com)

Did Lithium ion blow the Malaysian Airlines flight out of the air? Websearch: "Malaysian Airlines Lithium Ion" for details...

Are militants trying to hack Tesla's to make their battery packs overcharge and blow up? Websearch "TSA Lithium Ion Warnings" for details...

- **The Trillion dollar + Lithium-ion industry pays over a billion dollars a year to elected officials, appointed officials, their staff and lobbyists in order to get them to cover up the facts listed here and to promote this dangerous chemical for profit. Many of those have family stock in lithium-ion companies, private sector job promises and PAC funding from lithium-ion companies. Why wonâ€ t the people who are using lithium-ion stop using it? Why is there almost no regulation of deadly lithium-ion? The answer: [KICKBACKS!](#)**

- If you are exposed to burning lithium-ion from a burning car, iPad, phone, [airplane](#), [FED-Ex](#) or [UPS truck](#), or other fire from lithium-ion batteries, the smoke and vapors that you inhale are some of the most **cancer-causing, brain-damaging, lung damaging liver poisoning chemicals** you could be exposed to. [SEE HIS LINK](#) and [THIS ONE](#) and [THIS ONE](#) and [THIS ONE](#) (More coming)

- Lithium-ion batteries are made in â€ **concentration camp-likeâ€ fenced-in compounds where low income workers are exposed to poison gas and powders** from the lithium-ion manufacturing process. A **dramatically large group of these workers die from the cancers and toxic poisoning from these factories.** They have always been made in overseas, impoverished, regions because there is little or **no occupational safety regulation there.** Teslaâ€ s factory has been fined by OSHA for setting workers on fire. This is a very deadly business. Now they are trying to build these factories in the American southwest to try to **exploit Mexican workers like they do overseas.** Some argue that large â€ white man ownedâ€ corporations â€ fighting for immigration rightsâ€ are really fighting to relax laws to allow cheap labor into these kinds of camp-factories in the desert. Some of the factory owners have even purchased multiple lots, in multiple southern states, and told investors that they will â€ **build on the one where we can buy control of the most local politiciansâ€ .**

- The makers of lithium ion batteries have issued a document called the â€ **MSDSâ€ . It states known facts about the batteries. The MSDS warns firefighters they can get cancer. It warns that the batteries are toxic. It clearly states the very great dangers of spontaneous, or easily caused fire from bumps or moisture. Why did Panasonic kill itâ€ s MSDS web links the day the first Tesla fires hit the news? Look at the facts [HERE.](#)**

- Lithium-ion batteries seem to have caused some wars. At [THIS LINK](#), you will see hundreds of facts, films

and links showing the direct connection between lithium ion investors in Silicon Valley and wars for ore in middle east countries.

- [Silicon Valley Lithium-ion investors signed deal with Russian businessmen](#) to create an international lithium ion cartel.

- Lithium ion battery companies Enerdel, and A123, and others, went bankrupt, after being funded with your tax dollars, from corruption, explosions and spontaneous fires. Facts that were well known by the people that funded them.

- Less compromised Senators have railed against the dangers of lithium-ion has shown [HERE](#) and [HERE](#)

- IPAD Lithium-ion batteries have blown up setting entire stores on fire.

- Samsung lithium-ion batteries in cell phones have set a number of people, including many children, on fire.

- Lithium-ion does not even work as well as other lower-cost, safer energy solutions:

- The charge-keeping capability of a typical lithium-ion battery degrades steadily over time and with use. After only one or two years of use, the runtime of a laptop or cell phone battery is reduced to the point where the user experience is significantly impacted. For example, the runtime of a typical 4-hour laptop battery drops to only about 2.5 hours after 3,000 hours of use. By contrast, the latest fuel cells continue to deliver nearly their original levels of runtime well past the 2,000 and 3,000 hour marks and are still going strong at 5,000+ hours.

- The electrical capacity of batteries has not kept up with the increasing power consumption of electronic devices. Features such as W-LAN, higher CPU speed, "always-on", large and bright displays and many others are important for the user but severely limited by today's battery life. Lithium ion batteries, and lithium-polymer batteries have almost reached fundamental limits. A laptop playing a DVD today has a runtime of just above one hour on one battery pack, which is clearly not acceptable.

- Silicon Valley [Lithium-ion billionaires](#) try to exploit the lack of public awareness with disinformation campaigns linking anti-lithium-ion to saying that you are anti-environment. In fact: Lithium ion use and manufacturing is one of the most toxic industries on the planet.

- Lithium-ion battery companies have actually been charged with, and sued for organized crime. [HERE IS AN EXAMPLE](#)

- AT&T's U-verse TV service now had a exploding battery problem, making it necessary for the firm to replace 17,000 backup batteries in its nationwide network.

- Lithium-ion batteries might have crashed the Malayasian airlines flight. SEE DETAILS [HERE](#).

TESLA SAFETY REPORT Vers. 1.05M- Public Wiki Produced for NHTSA other governmental agencies and public transparency

Draft- 1.05M (Document under construction "not final)- First Final Draft Due to NHTSA Due: **1/14/14**. (Note: The head of the NHTSA has now quit over this, let's keep all eyes on this make sure nothing is rigged) For Public Comment and Review

Please refer all agencies to this document link at:

OR

<http://wp.me/p4e1uX-AK>

CONTENTS:

- 1. Overview**
- 2. Known, Unresolved, Safety Issues.**
- 3. Safety tests that were never conducted and must now be conducted.**
- 4. How many fire incidents have there been.**
- 5. Contacts to follow-up on investigations**
- 6. Are Tesla drivers more likely to get in accidents than mainstream drivers?**
- 7. Original participant conflicts-of-interest created reduced safety oversight**

Appendix

- Lithium ion site
- â€ NHTSA Demand Letter
- â€ Additional data
- â€ Video Evidence
- Questioning the validity of the German â€ Safety Reportâ€
- Demand for identification matrix showing campaign backers who were lithium ion investors who had had their contacts exert influence over NHTSA decisions!

(Supplemental material now numbers over 10,000 pages and will be submitted directly to regulators in order to avoid congesting this site)

1. Overview

Regulators asked Tesla to detail the possible consequences of battery pack damage to the Model S and how those problems were addressed in the Model S design. NHTSA also asked Tesla to describe the â€ limits of that design to prevent damage to the propulsion battery, stalling and firesâ€ . While electric cars have been in commercial production since the 1800s, and have been widely released by major automobile manufacturers, only the Tesla vehicles have experienced the fire issues, relative-to-inventory, in this magnitude. The questions and data required by NHTSA, in the letter from NHTSA, contained below, demands disclosure of certain Tesla information which will reveal conflicts in previously provided Tesla data. Reporters and public interest law firms will be using the FOIA process to disclose the responses, required under federal law, in the public interest.

2. Known, Unresolved, Safety Issues.

- Dense packing non-automotive lithium cells
- Self ignition from exposure to air
- Self ignition from exposure to water
- Burning lithium ion, plastics and human skin
- Inability to extinguish lithium ion fires
- Failure to provide disclosures to buyers
- Failure to provide required CO2 fire extinguishers to buyers
- Toxic carcinogenic chemicals released in Tesla Fire- Danger to passengers

- Toxic carcinogenic chemicals released in Tesla Fire- Danger to bystanders
- Brain damage from toxic chemicals released in Tesla Fire- Danger to passengers
- Brain damage from toxic chemicals released in Tesla Fire- Danger to bystanders
- Lung damage from toxic chemicals released in Tesla Fire- Danger to passengers
- Lung damage from toxic chemicals released in Tesla Fire- Danger to bystanders
- Birth defects from toxic chemicals released in Tesla Fire- Danger to passengers
- Birth defects from toxic chemicals released in Tesla Fire- Danger to bystanders
- Home and office conflagration as warned in Tesla's own patents
- BMS (Battery Management System) programming, ie: Vampire issues, etc.
- Danger to factory workers exposed to internal materials in Tesla Lithium ion cells
- Electronic door locks failing. Could passengers be locked inside car in fire?
- Previous seat safety recall
- Miscellaneous owner complaints about technical issues and relation to safety

Additionalâ€

3. Safety Tests That Were Never Conducted and Must Now Be Conducted.

The continued failure to engage in these tests, and/or provide the results from these tests, continues to call into question the efficacy and conflicts of interest of the original testing. The batteries used by Tesla were never designed, or created, to be used in automobiles and this short-cut to cost reduction must be mitigated by the relative increase in safety reduction.

- Vehicle with **fully charged batteries** drives into 3â€², 4â€², 5â€², 6â€², 7â€² 8â€² concrete curb at 5MPH, 15MPH, 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH and then is allowed to sit, post crash, for up to 3 hours to analyze spontaneous lithium ion combustion.
- Vehicle with **fully charged batteries** drives into 3â€², 4â€², 5â€², 6â€², 7â€² 8â€² metal post embedded in road at 5MPH, 15MPH, 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH and then is allowed to sit, post crash, for up to 3 hours to analyze spontaneous lithium ion combustion..
- Vehicle with **fully charged batteries** drives into 3â€², 4â€², 5â€², 6â€², 7â€² 8â€² concrete curb at 5MPH, 15MPH, 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH and then is allowed to sit, post crash, for up to 3 hours in simulated rain storm to analyze spontaneous lithium ion combustion..
- Vehicle with **fully charged batteries** drives into 3â€², 4â€², 5â€², 6â€², 7â€² 8â€² concrete curb at 5MPH, 15MPH, 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH and then is allowed to sit, post crash, for up to 3 hours after complete immersion in water as in a hurricane or high-water event to analyze spontaneous lithium ion combustion..
- Rolling the vehicle with **fully charged batteries** in a 3 roll crash at 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH ending in the vehicle laying on itâ€² s roof and counting the number of lithium ion cells that came loose from their mounts risking burning lithium falling on passengers.
- Rolling the vehicle with **fully charged batteries** in a 3 roll crash at 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH ending in the vehicle laying on itâ€² s roof and counting the number of lithium ion cells that had their housings damaged risking burning lithium falling on passengers.

- Rolling the vehicle with **fully charged batteries** in a 3 roll crash at 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH ending in the vehicle laying on it's roof and simulating a full rain storm on the, now exposed, underside of the vehicle for 2 hours to see if lithium ion ignites when wet risking burning lithium falling on passenger and to analyze spontaneous lithium ion combustion.
- Filling the battery compartment, with **fully charged batteries**, with water, draining it and observing for 4 hours to analyze spontaneous lithium ion combustion.
- Pouring 18 Oz. soft drinks into the battery compartment, with **fully charged batteries**, and observing for 4 hours to analyze spontaneous lithium ion combustion.
- Impacting the lower quarter panel of Tesla with **fully charged batteries** on the side of the car, on each side, at the lower center of the passenger door and two feet to either side at 20MPH, 25MPH, 30MPH, 35MPH, 40MPH, 45MPH, 50MPH, 55MPH, 60MPH, 65MPH, 70MPH, 75MPH at 3", 4", 5", 6", 7" 8" so as to penetrate the battery chamber at least 4 inches and then saturating the damaged area with water and waiting four hours to analyze spontaneous lithium ion combustion.
- Forced ignition of lithium ion cells in flipped over (vehicle resting upside down on it's roof) with **fully charged batteries** and timing of penetration of smoke and flames to occupants simulated as contained within.
- Spectrograph analysis and complete full-range chemical read-out of the front metal and plastics of a Tesla on fire with **fully charged batteries** along with the lithium ion batteries. Disclosure of all known harmful chemicals in said smoke.
- Manually cutting 10 (ten) **fully charged** lithium ion Tesla battery cells in half long-ways in open air at average humidity and videotaping the results followed by dropping them in a bucket of water 60 seconds after cutting them. With the large number of lithium ion cells in a Tesla, physics and the law of averages predict that at least 10 cells will be fully ruptured in a high speed accident.

Plus such additional tests to be specified by:

[The Center for Auto Safety](#)

Davis College Engineering Department
 Denver College Engineering Department
 General Motors
 Ford Motor Company
 Automobile Dealers Association
 and other public interest safety groups

4. How many fire incidents have there been.

Factory Fire 1?
 Factory Fire 2?
 Boston Fire?
 Half Moon Bay Fire?
 Tenn. Fire?
 Seattle Fire?
 Mexico Fire?
 Factory Prototype Fires?

other post crash and testing firesâ€”

5. Contacts to follow-up on investigations

<http://www.nhtsa.gov/Contact>

With a copy to:

public.affairs@dot.gov

The Center for Auto Safety

Organization that informs consumers about auto safety issues.

www.autosafety.org

1825 Connecticut Ave, NW

Suite 330

Washington, DC 20009-5708

(202) 328-7700<http://www.autosafety.org/fileacomplaint>

Criminal Investigations:

<https://tips.fbi.gov/>

with a copy to:

askdoj@usdoj.gov

antitrust.complaints@usdoj.gov

<https://wb-gop-oversight.house.gov/>

Chairman Barbara Boxer
Senate Select Committee on Ethics
220 Hart Senate Office Building
Washington, D.C. 20510
Fax: (202) 224-7416

For German Investigations:

Kraftfahrt-Bundesamt (KBA) at:
pressestelle@kba.de

and at this link:

http://www.kba.de/cln_031/nn_540136/EN/Service_en/Contact/Contact_node_en.html?_nnn=true

and by hard-copy mail to:
Kraftfahrt-Bundesamt

Tesla Drivers More Likely To Get In Accidents, With Their Exploding Cars, Than Mainstream Drivers?

Sociological reports, such as the report below, confirm that Tesla drivers are more likely to drive drunk, use drugs and respect less laws:

Various crash reports find that a large number of Tesla drivers drive drunk. Here is a typical mocking web graphic pointing out this fact:

Tesla related investors engage in this sort of extreme behavior and use their resources to promote the car as a tool to skirt social bounds with speed and sex. Skirting social bounds often lies close to skirting laws and common sense. Here are reports on activities and personalities of these people who promote the vehicle:

<http://vcracket.weebly.com>

A Tesla Driver is now charged with the homicide of two people in a crash with their Tesla.

The evidence shows that Tesla drivers and the Tesla Culture promotes extra-carelessness, extra arrogance, extra drinking, extra distraction due to sexual theatrics and an overall requirement to create higher-than-normal safety parameters for these drivers, particularly in light of the highly explosive bed of material they are driving around amongst other consumers and structures. Tesla drivers appear to be more likely to crash, or create lithium ion thermal event circumstances, because of the cultural dynamic which Tesla attracts.

7. Original participant conflicts-of-interest created reduced safety oversight

A certain, specific, group of investors, known to the FBI, The GAO, The SEC and the Senate Ethics Committee, purchased undo influence on the previous Tesla decisions process, in order to acquire “unjust rewards” from the U.S. Treasury. These investors, coincidentally, provided funds to related campaign efforts and, shockingly, they all hold major investments in the very battery system in question.

Because of this, the American consumer has been forced to â“ accidentallyâ“ conduct some of these tests at great personal risk to those consumers. These risks should have been disclosed by Tesla prior to the application for their DOE loan and prior to their first contact with NHTSA. Tesla produced documents show that Tesla was aware of the dangers disclosed herein.

â“ -

Appendix: Reference Data:

FROM: <http://lithium-ion.weebly.com>

The lurking threat in your car and home â€” over a million failures of this chemistry and these batteries globally..â€”

“ LITHIUM ION BATTERIES ARE MADE OVERSEAS BY CHEAP LABOR WHERE OSHA CANâ T WATCH. POOR PEOPLE MAKE LITHIUM ION BATTERIES OFF SHORE WHERE THEY ARE NOT TOLD ABOUT THE TOXIC CANCER, LIVER AND LUNG DISEASES THEY GET FROM THE MANUFACTURING PROCESS. SILICON VALLEY VCâ S PUSH LITHIUM ION BECAUSE THEY CAN MAKE A HUGE PROFIT ON THE CHEAP LABOR BUILDING A BATTERY THAT SELF DESTRUCTS BUILT BY WORKERS WHO DIE FROM TOXIC POISONING. CHINESE, MALAY, MEXICAN AND OTHER WORKERS, SHOULD FILE CLASS ACTION LAWSUITS AGAINST SILICON VALLEY VCâ S WHO PUSH THESE BATTERIES.”

Elizabeth Jarvis-Shean, director of global communications at Tesla, confirmed that the vehicle engulfed in flames was indeed a Tesla but stressed that the driver walked away without injuries.

[Another Tesla Caught On Fire While Sitting In A Toronto â€”](#)

rr.com/articles/2014/02/13/a/another-tesla-cauâ“i

MMamta Badkar

It appears that shares began to tumble in the last half hour on reports that a Tesla Model S car caught fire on Washington State Route 167.

â“ â“ â“ â“ â“ â“ â“ â“ â“ â“ â“ â“ â“ â“ â“ â“ â“

The following are a variety of quotes, from across the web, demonstrating the critical nature of this public safety issue:

267

electronics and physical health. Boeing was just ordered to stop flying the 787 Dreamliner because itâ€˜s Lithium ion batteries are catching fire spontaneously.â€˜

â€˜ A group of silicon valley venture capitalists forced/leveraged the government to buy and pay for these specific batteries, that they have stock in, in order to benefit their profit margins. Other batteries donâ€˜t have these problems. They knew about this from day one but put greed ahead of safety. There are thousands and thousands of reports of spontaneous lithium ion fires but the VCâ€˜s who back lithium ion pay to keep this information hushed up.

Millions of these batteries have been recalled for fire risk. The VCâ€˜s tried to push as many as they could before they got caught. Now they are caught. These VCâ€˜s own stock in lithium mining companies too.â€˜

â€˜ Here is the Fisker Karma after it got wet and the batteries blew up. These batteries blow up JUST FROM GETTING WET! ALL of these burned up hulks are brand new \$100,000.00+ cars that just blew up and torched everything around them just because they got wet! How bad do you want a Fisker or Tesla now? Fiskerâ€˜s insurance company is balking at paying for this saying: â€˜ You knew this would happenâ€˜ .
Picture

These links show vast sets of Fisker electric cars that burst into flames just because they GOT WET:

<http://updates.jalopnik.com/post/34669789863/more-than-a-dozen-fisker-karma-hybrids-caught-fire-and>

<http://green.autoblog.com/2012/08/12/fisker-flambe-second-karma-spontaneously-combusts-w-video/>

<http://www.autoblog.com/2012/11/05/how-sandy-may-have-set-17-plug-in-hybrids-on-fire/>

<http://www.digitaltrends.com/cars/fisker-karma-spontaneously-combusts/>

<http://cbdakota.wordpress.com/2012/11/07/fisker-karmas-catch-fire-following-inundation-by-sandy/>

<http://www.engadget.com/2012/08/12/fisker-karma-hybrid-ev-second-fire/>

<http://www.techfever.net/2012/08/fisker-karma-hybrid-ev-ignites-while-parked/>

<http://evmc2.wordpress.com/2012/11/04/fisker-karma-fire-report/>

<http://fellowshipofminds.wordpress.com/2012/05/12/karma-burns-owners-mansion/>

<http://www.carbuzz.com/news/2012/11/1/Karmas-Ignite-After-Hurricane-Floods-Newark-Port-7711437/>

THE UNDERPAN OF THE TESLA MAGIC CARPET OF DOOM. THIS WHOLE THING IS FULL OF LITHIUM. YOUR WHOLE FAMILY IS SUPPOSED TO SIT ON TOP OF THIS!!!
TESLA HAS TO TEST THEIR BATTERIES IN a BLAST CHAMBER!!!!!!!:

IF TESLA SAYS THIS THING IS SO SAFE WHY DO THEY TEST IT IN A STEEL ENCLOSED EXPLOSION ROOM WITH WIRES COMING IN THROUGH BLAST HOLES!!!!??????

â€˜ TESLA ELECTRIC CARS HAVE 6800 CHANCES OF â€˜ GOING THERMALâ€˜ .

â€˜ TESLA ELECTRIC CAR BATTERIES ARE MORE LIKELY TO BLOW UP.â€˜ SAYS STANFORD ENGINEER, â€˜ USING LITHIUM ION IN AN ELECTRIC CAR DOUBLES THE CHANCES IT WILL EXPLODE OR GO THERMAL BECAUSE AN ELECTRIC CAR PUSHES IT FURTHER THAN ANYTHING ELSE. BOEING HAD MANY SAFETY CIRCUITS AND EVEN THOSE FAILED. THERE IS NO WAY THE TESLA SAFETY CIRCUITS WILL NOT EVENTUALLY FAILâ€˜

â€˜ Tesla Electric cars have 6800 lithium ion batteries wedged into a box. This can create a repercussive

thermal event that can set the whole car off. The TESLA 18650 batteries can be seen exploding in multiple YOUTUBE videos. It is NOT TRUE that they are “ an entirely different battery” they are the same chemical compound that blows up.”

“ A direct quote from Tesla’s patent application, below. Tesla KNEW this was going to happen and never adequately warned anybody. Tesla wrote these words in the federal papers they filed yet they never showed these words to any buyers :

“ Thermal runaway is of major concern since a single incident can lead to significant property damage and, in some circumstances, bodily harm or loss of life. When a battery undergoes thermal runaway, it typically emits a large quantity of smoke, jets of flaming liquid electrolyte, and sufficient heat to lead to the combustion and destruction of materials in close proximity to the cell. If the cell undergoing thermal runaway is surrounded by one or more additional cells as is typical in a battery pack, then a single thermal runaway event can quickly lead to the thermal runaway of multiple cells which, in turn, can lead to much more extensive collateral damage. Regardless of whether a single cell or multiple cells are undergoing this phenomenon, if the initial fire is not extinguished immediately, subsequent fires may be caused that dramatically expand the degree of property damage. For example, the thermal runaway of a battery within an unattended laptop will likely result in not only the destruction of the laptop, but also at least partial destruction of its surroundings, e.g., home, office, car, laboratory, etc. If the laptop is on-board an aircraft, for example within the cargo hold or a luggage compartment, the ensuing smoke and fire may lead to an emergency landing or, under more dire conditions, a crash landing. Similarly, the thermal runaway of one or more batteries within the battery pack of a hybrid or electric vehicle may destroy not only the car, but may lead to a car wreck if the car is being driven or the destruction of its surroundings if the car is parked.”

“ WTF!!!!!!

Tesla’s own staff have now admitted that once a lithium ion fire gets started in one of their cars, it is almost impossible to extinguish burning lithium ion material. This is Tesla’s own words in THEIR patent filing, (You can look it up online) saying that the risk is monumental. Tesla has 6800 lithium ion batteries, any one of which can “ go thermal” and start a chain reaction! If you look at all of the referenced YOUTUBE movies you will see how easy it is to set these things into danger mode.”

“ Imagine a car crash with a Tesla where these 6800 batteries get slammed all over and then exposed to rain, fire hose water, water on the roads, cooling system liquid.. OMG!! And then if, in that same accident the other car is a gasoline car” getting burned alive sounds “ BAD” ! Tesla is covering up the problems with its batteries.”

“ Lithium ion batteries have already crashed a UPS plane and killed people. Look here:

<http://washingtonexaminer.com/dreamliner-fires-spark-new-doubts-about-a-green-energy-technology/article/2519353>

“

More Lithium Ion Battery disasters:

<http://www.forbes.com/sites/petercohan/2013/01/24/is-787s-lithium-ion-battery-hazardous-to-boeings-health/>

“ AS A DEMONSTRATION OF HOW DANGEROUS LITHIUM IS, NASA IS GOING TO MAKE IT BURN IN OUTER SPACE:

“ If you’re along the Eastern Seaboard tonight, it might be worth your while to look at the sky this evening. NASA’s Wallops Flight Facility is scheduled to launch a sounding rocket that will release “ two red-colored lithium vapor trails in space.”

As Space.com reports, those trails might be seen across the Mid-Atlantic and perhaps as far north as Canada and as far south as

northern Florida. Space.com explains how these trails will produce a “ night sky show:”
“ The sounding rocket that will be used to create the two NASA-made glowing cloud trails will be a Terrier-Improved Orion. In this technology test launch, two canisters in the rocket’s payload section will contain solid metal lithium rods or chips embedded in a thermite cake. The thermite is ignited and produces heat to vaporize the lithium.

“ Once the vapor is released in space, it can be detected and tracked optically. The rocket will eject two streams of lithium which will be illuminated at high altitudes by the sun (which will be below the local horizon at ground level).”

In a statement, mission project manager Libby West said the launch is a test flight for two upcoming missions. It’ll give scientists a view of two different methods for creating lithium vapor trails. By the way, NASA says the lithium combustion process poses no threat to the public during the release in space.”

If lithium is so dangerous it will even burn in space, why are we putting it in our airplanes and cars??????

Lithium Ion batteries blow up and burn down commercial building:

<http://westhawaiiitoday.com/sections/news/nation-world-news/787-battery-blew-%E2%80%999906-lab-test-burned-down>

“ Tesla and Fisker have only sold a few hundred cars, (thank god) because nobody but dicks want these overpriced eliteist toys. A regular car company sells hundreds of thousands of cars per model. Every single Tesla or Fisker sold increases the likelihood of a burn up. Those burn-ups will affect the homes, cars and lives of the people next door who never even bought one.”

“ Go to <http://www.youtube.com> and type into the search window:

“ Lithium ion explosion” or “ lithium battery and water” or “ lithium ion water” and any related derivation and you will find hundreds of videos about how dangerous these batteries are. There are numerous videos of Tesla’s 18650 batteries blowing up.”

“ This article in the LA Times sheds more light of the horrors of Lithium Ion:

<http://articles.latimes.com/2013/jan/18/business/la-fi-dreamliner-battery-20130119> ”

“ Lithium Ion batteries “ go thermal” in peoples pockets, in your notebook, especially in your Tesla and Fisker car and everywhere else. There are thousands and thousands of articles documenting this and there is a cover-up by the VC’s that fund these things to keep this fact out-of-sight.

Making Lithium Ion batteries poisons the workers who make them. It is a dangerous product. Each time the workers, particularly in Asia, realize they are being poisoned by the factory, they jack up the product. Outlaw lithium ion batteries. Demand a recall.”

There are PLENTY of other energy storage solutions that do not involve the highly compromised Lithium Ion chemistry!”

“ Below are a few samples of HUNDREDS of videos proving that Lithium Ion Batteries JUST BLOW UP. This is why TSA does not want them, or liquid, on planes.”

Lithium Battery Explosion Burns Hong Kong Home To The Ground:

By Stephanie Mlot

A Hong Kong couple have been displaced after an exploding Samsung Galaxy S 4 smartphone burst into flames, burning their house to a crisp.

The man, identified in the original Xianguo.com report only as Mr. Du, claims that his phone, battery, and charger were all legitimate Samsung products, but thatâ€ s now difficult to confirm since his home and everything in it were destroyed.

According to the translated report, Du sat on the living room sofa playing the game â€ Love Machineâ€ on his charging GS4 when it suddenly exploded. In the heat of the moment, he threw the device onto the couch, which caught fire. The flames then spread to the curtains and the rest of the house, â€ out of control,â€ Xianguo said.

Du, his wife, and his dogs managed to escape the house unscathed; neighbors were temporarily evacuated as firefighters fought the flames. Almost all of the coupleâ€ s furniture and appliances burned to ash, the news site said, adding that their Mercedes parked outside was also damaged.

Whether or not the true cause of an entire house fire was a singular 5-inch smartphone remains to be seen, though a fire department investigation initially resulted in a report of â€ no suspicious circumstances.â€

Samsung did not immediately respond to PCMagâ€ s request for comment, but told Xianguo that it will â€ carry out detailed investigations and tests to determine the cause of the incident.â€ Last year, a Galaxy S III owner in Dublin was driving in his car when the device caught fire. Cell phone safety is increasingly becoming an issue in Asia, where two cases of iPhone shock occurred within a week of each other this month. On July 11, a 23-year-old flight attendant with China Southern Airlines was allegedly electrocuted when she took a call on her Apple device while it was charging. She was reportedly using the original charger when she was killed.

Boeing 787 Dreamliner woes put spotlight on lithium ion battery risks

BY KEN BENSINGER, Los Angeles Times

Chances are the same kind of battery that twice caught fire in Boeing 787 Dreamliners in recent weeks is in your pocket at this very moment.

Lithium ion batteries, small and powerful, have become the electricity storage device of choice. They are everywhere â€ in cellular phones, laptops, power tools, even cars. They allow us to talk, email and drill longer than ever possible in the past.

But the incidents that led to the grounding of the 787 fleet worldwide, and the decision by Boeing on Friday to temporarily halt all deliveries of the plane, have highlighted a troubling downside of these energy-dense dynamos: their tendency to occasionally burst into flames.

FOR THE RECORD: Dreamliner batteries: An article in the Jan. 19 Section A on lithium ion battery safety and the grounding of the Boeing 787 incorrectly described a fire in a Chevrolet Volt automobile. The battery

did not ignite spontaneously; instead it burned after a crash test damaged the vehicle's cooling system and the test car was left parked with the battery fully charged, eventually causing it to overheat. With investigators now working to determine the cause of the incidents, one on a Dreamliner on a Boston runway, the other forcing an emergency landing of a 787 in western Japan, the larger question of lithium ion safety has snapped into focus.

“Every battery can burn and every battery can be flammable,” said Mike Eskra, a Milwaukee-based battery development scientist who also works as a battery fire investigator for insurers. “But lithium ion batteries are more dangerous because they store more energy. It’s like a firecracker instead of a stick of dynamite.”

The casualty list is long. In recent years, tens of thousands of laptop batteries have been recalled due to the risk of fire or explosion. The 400-pound lithium ion battery on General Motors’ cutting-edge electric car, the Chevrolet Volt, burst into flames seemingly spontaneously while parked in 2011. And investigators blamed a cargo hold full of lithium ion batteries for a fire that caused a UPS-operated 747 to crash shortly after takeoff from Dubai in late 2010.

That crash, which killed both pilots, is one of more than 100 incidents recorded by the Federal Aviation Administration linking lithium ion batteries to onboard fires over the last two decades. This month, new rules took effect limiting the transport of lithium ion batteries in aircraft. And the FAA had long prohibited use of the technology in commercial airplanes.

That changed in 2007, when it granted Boeing permission to use the batteries in the 787 under a number of conditions to ensure safety. For Boeing the lithium ion advantage was clear.

Thanks to their chemistry, the rechargeable batteries can store as much energy as a nickel metal hydride pack that’s 50% heavier, while charging and discharging faster than other battery types. That’s made them attractive for military applications such as the B-2 bomber and also for use on the International Space Station and the Mars Rover.

Lithium ion batteries enabled Boeing to swap out heavy hydraulic systems in the airframe for lightweight electronics and electric motors to operate systems like wing de-icers. That’s a key reason the Dreamliner burns 20% less fuel than other wide-body aircraft.

The weight and power savings are exactly what made lithium ion batteries popular in other applications. In excess of 95% of mobile phone batteries worldwide are lithium ion, and without lithium ion, laptops couldn’t run anywhere near as long as they do without a recharge.

“They completely dominate the consumer market,” said Vishal Sapru, energy and power systems research manager at consulting firm Frost & Sullivan in Mountain View, Calif.. He estimates that global sales of lithium ion batteries reached \$14.7 billion last year, up from \$9.6 billion in 2009, a 53% increase. Sapru expects the market to soar to \$50.7 billion by 2018. “No other battery chemistries are growing at that rate.”

But lithium ion also has downsides. The batteries tend to have shorter life spans than older, more proven battery technologies. And although the price is falling, lithium ion is still more expensive than other batteries. Although some carmakers have embraced the technology, others, such as Toyota, have decided against it. Several makers of lithium ion auto batteries for electric vehicles have filed for bankruptcy last year because of weak demand.

Safety experts also have concerns. Because lithium ion batteries can store more energy, and discharge it more quickly, than other batteries, lithium ion cells can get much hotter than other technologies in the event of an

overcharge or the external application of a heat source. Larger applications, such as the 63-pound batteries on the 787, incorporate multiple cells and the heat can spread rapidly from cell to cell, a chain reaction called “thermal runaway.”

And while other types of batteries use a water-based electrolyte in each cell, lithium ion relies on a highly flammable solvent. When heated up, that solvent tends to vaporize, spraying the burnable gas into the surrounding air. As a result, lithium ion battery fires burn extremely hot, as high as 2,000 degrees Fahrenheit.

Those conditions were blamed for an explosion at a General Motors battery testing lab last April that caused \$5 million in damage and sent one person to the hospital. GM said flammable gas had vented from an experimental lithium ion battery that heated up during extreme testing.

“Lithium ion is very controversial in the safety engineering space,” said Brian Barnett, vice president for battery technology at Tiax, a technology firm in Lexington, Mass. He spoke last month at a conference on battery safety in Las Vegas, where more than three-quarters of the presentations focused on lithium ion batteries.

The cause of the fires in the two Dreamliners has still not been determined and neither Boeing nor the Japanese company that made the batteries, GS Yuasa, have publicly commented on likely factors. Boeing subjected the batteries on the plane to thousands of hours of testing and installed numerous safety systems specific to the batteries.

“We have high confidence in the safety of the 787 and stand squarely behind its integrity as the newest addition to our product family,” Boeing Chief Executive Jim McNerny said Friday.

Barnett and others emphasize that it’s not uncommon to see problems in relatively new technologies. But they add that most lithium ion fires are caused by an external problem, such as a bad circuit or a software glitch that leads to overcharging. Another common problem in consumer electronics is the use of low-cost wiring and other components that can overheat and spark or catch fire next to the battery itself.

Eskra, the battery fire investigator, said he’s seen fires started by Chinese-made toys that use lithium ion batteries hooked up to chargers designed for nickel cadmium or nickel metal hydride batteries. Manufacturing errors, including allowing tiny metal particles to contaminate cells, can cause dangerous shorts, although they are exceedingly rare.

“Somebody tried to cut corners somewhere,” he said, noting that most lithium ion fires are caused by a tiny part that malfunctioned somewhere along the line and are easily resolved. “It’s a \$2 fix, but it takes half a million dollars in research to figure out what it is.”

Sometimes the problem is more persistent. In 2006, Sony announced a global recall of more than 10 million lithium ion laptop batteries used in a variety of laptop computers after more than a dozen fires, and two years later issued a second recall.

“This is a battery type that is only one of hundreds of possible batteries but this particular type was pushed by a few companies and investors so they could make money off it at the risk of public injury or death,”

When a test of a lithium-ion battery charger turned into an inferno at Securaplane Technologies Inc. in 2006, temperatures reached as high as 1,200 degrees and three waves of firefighters failed to save the building. An employee of the Oro Valley company blasted the flaming battery with a fire extinguisher to no effect. Two hours later, the galvanized metal roof collapsed, and the 10,000 square-foot

building was a total loss.

Itâ€˜s a fire that federal safety regulators are taking another look at now, since Securaplane provides two key battery components to the Boeing 787

Dreamliner, the start-power and battery-charger units. Records from local Golder Ranch Fire Department, the first of three fire departments to respond to the blaze, describe â€˜an uncontrolled thermal reaction (that) caused the battery to vent and this venting caused the ignition to various items and fixtures throughout the test lab area.â€˜

â€˜The electrical technician who was performing a test on the battery when it exploded likened the experience to being near a jet after-burner.

Electrolytes from inside the battery were shooting 10 feet into the air, the former Securaplane employee, Michael Leon, said in an interview Friday. â€˜The magnitude of that energy is indescribable.â€˜

â€˜The fire stands as a graphic illustration of the power stored within energy-dense lithium-ion batteries and the potential consequences if something goes awry. It also highlights the importance and delicacy of the quality-control measures applied to a novel â€˜and potentially explosive â€˜ technology, a technology now allowed, under special conditions, to be used as the main and auxiliary power source of certain aircraft.

The Boeing 787 Dreamliner, the companyâ€˜s newest and most energy-efficient plane, uses two lithium-ion batteries. After two battery-related incidents in the past month, the 50 Dreamliners distributed so far have been grounded.â€˜

â€˜ Whistleblower: Dreamliner LITHIUM ION Batteries Could Explode

He says he was fired after warning about battery problems
By Christopher Freeburn, InvestorPlace Writer

Boeingâ€˜s (NYSE:BA) new 787 Dreamliner could end up being a nightmare for the aircraft giant.

A former senior engineering technician at Securaplane Technologies, which makes the charging system for the lithium-ion batteries used in 787 Dreamliners, told CNBC that the batteries are defective and liable to explode if they overheat.â€˜

â€˜Lithium-ion batteries are heat intolerant, according to a potential whistleblower familiar withâ€˜i

Lithium-ion batteries are heat intolerant, according to a potential whistleblower familiar with their technology. â€˜Too much heat on those things, they will go into a thermal runaway, they will explode.â€˜ The informant, a former senior engineering technician of Securaplane Technologies, was fired in 2007 for repeated misconduct, but he says it was in retaliation for voicing concerns about the batteries. The NTSB acknowledges that the lithium-ion batteries in Boeingâ€˜s (BA) Dreamliner experienced a thermal runaway, but insists thereâ€˜s no connection between the incident and the whistleblowerâ€˜s claims. â€˜

â€˜The Japan Transport Safety Board makes a number of interim points. This battery, unlike one that burst

ADDITIONAL DATA:

Additional Mechanical Failures of the Tesla. Some could lead to lock-in during fire:

Mocking web image, below, highlights acknowledgement of high volume of Tesla drivers drinking and driving:

Image, below, shows that the battery compartment of Tesla has more impact points to cause ignition than any other electric car:

The Chevy Volt did a recall because of the lithium ion dangers and added extra steel, (image below) around the lithium ion chamber but they had already acknowledged this danger by burying the lithium ion deep within the body of the car without exposing it to the outside edges like Tesla does:

The following article (image below:) indicates that Tesla was in violation of federal law when it applied for DOE funds, which required that a company was not about to go bankrupt. Musk, herein states that he WAS about to go bankrupt when he applied. Additionally, he states that he front-loading his friends contracts to grab all the federal cash at a bankruptcy. This seems to indicate that safety due diligence data was being manipulated, along with federal law, on behalf of Tesla investors. Tjis calls into question, all data has submitted, or will submit, relative to honesty.

Tesla Model S charging system may have started garage fire â€ California fire dept

BY BERNIE WOODALL AND NORIHIKO SHIROUZU

(Reuters) â€ A fire department in Southern California said a garage fire may have been caused by an overheated charging system in a Tesla Model S sedan, in the latest link between the top selling electric car and the potential for fire.

While Tesla Motors Inc maintains that the fire was not related to the car or its charging system, the Orange County Fire Authority said the Tesla-supplied charging system or the connection at the electricity panel on the wall of the garage of a single-family home could have caused the fire.

â€ The fire occurred as a result of an electrical failure in the charging system for an electric vehicle,â€ said a report by the fire authority, a copy of which was obtained by Reuters. The report also emphasizes that the cause of the fire is unclear.

â€ The most probable cause of this fire is a high resistance connection at the wall socket or the Universal

Mobile Connector from the Tesla charging systemâ€” which was plugged into a 240-volt wall socket, the report said.

The fire occurred on November 15 in Irvine, California. The possible link between the fire and the Tesla Model S was not reported previously.

The garage fire is not related to three road fires in Model S sedans that occurred in October and November and which caused Teslaâ€™s stock to fall sharply last month. The road fires occurred in Washington state, Tennessee and Mexico.

In the U.S. incidents, Model S sedans caught fire after running over road debris. In Mexico, a Model S caught fire after striking a concrete wall. U.S. regulators are investigating the cause of the U.S. road fires, which caused the high-flying stock of the â€œgreenâ€ car maker to fall from a high of \$194.50 in late September to under \$120 in late November. On Wednesday, Tesla shares fell 2.9 percent to close at \$147.98 on the Nasdaq. The November residential fire on the campus of the University of California-Irvine caused \$25,000 of damage to the garage and its contents, but the Model S sustained only smoke damage, and no one in the house was injured, according to the Orange County Fire Authorityâ€™s report.

A Tesla representative disagreed on Wednesday with some of the reportâ€™s findings. â€œWe looked into the incident,â€ said Tesla spokeswoman Liz Jarvis-Shean. â€œWe can say it absolutely was not the car, the battery or the charging electronics.â€

She added: â€œThe cable was fine on the vehicle side. All the damage was on the wall side.â€ A review of the carâ€™s logs showed that the battery had been charging normally, and there were no fluctuations in temperature or malfunctions within the battery or the charge electronics,â€ said Jarvis-Shean.

The owner of the Model S, who lives at the Irvine residence, had parked the car in the garage the evening of November 14, plugged the cord from the vehicle into the 240-volt wall socket, and set a timer to begin the flow of electricity to the carâ€™s on-board batteries at midnight. She noticed a fire just before 3 a.m. and called for help. Fire crews put out the blaze quickly.

Some cardboard boxes stacked near the point of connection between the Tesla Model S charging system and the connection to the 240-volt outlet helped the fire spread, the report said. (Reporting by Bernie Woodall in Detroit and Norihiko Shirouzu in Beijing; editing by Matthew Lewis)

You can also see it at:

<http://tinypic.com/r/7295hs/6>

WATCH THIS VIDEO OF A TESLA BURNING AND BLOWING UP BECAUSE OF BATTERY SHOCK IN A CRASH.

- Questioning the validity of the German â€œSafety Reportâ€

Re-Quoted from:

<http://www.freerepublic.com/focus/f-bloggers/3098653/posts>

Hard to Take the German Absolution of Tesla Fires Seriously

[NLPC ^](#) | December 5, 2013 | Paul Chesser

by [jazusamo](#)

Following incidents in [Washington state](#), Mexico and [Tennessee](#), the [National Highway Traffic Safety Administration](#) announced it would probe fires that occurred recently over a six week period in [Tesla Motors](#)’ electric Model S.

And this week, as revealed in a *Detroit News* [story](#), the NHTSA looks like they’re serious – at least more serious than Germany’s transportation safety authority.

Why bring up Germany? Because as the regulatory heat bears down in the U.S. on Tesla and high-profile CEO [Elon Musk](#), they have trotted out the Eastern Europe nation to demonstrate that they’ve been absolved of any culpability in the fires. The media that has mostly fawned over the electric automaker helpfully amplified the development, which certainly Musk welcomed. He even got a slight recovery in the company stock price as a result.

On Monday Tesla posted a [press release](#) that claimed the company received an inquiry from the German Federal Motor Transport Authority about the three fires. While the NHTSA seems intent on conducting a thorough investigation (I’ll get to those details momentarily), the Germans have already wrapped up their inquiry! The result: After Tesla provided “data and additional information” and the Germans “reviewed Tesla’s responses to their inquiries,” they determined that “no manufacturer-related defects could be found. Therefore, no further measures under the German Product Safety Act are deemed necessary.”

Tesla posted a [copy of the letter](#) from the German Transport Authority – which is addressed to what appears to be the company’s [local legal counsel](#) – with the translation into English in the press release. Four things beg for explanation:

- The letter is dated Nov. 27, which is only about three weeks after the most recent fire. Such a rapid conclusion to an inquiry would seem to be a new record for governmental efficiency looking into complicated, sensitive matters such as this.
- The letter references a phone call earlier in the day with the attorney. What was *that* discussion about, that the Transport Authority immediately issued its exculpatory letter the same day?
- Tesla blacked out the identity and contact information of the Transport Authority representative who wrote the letter. Why?
- It’s apparent the German authority depended only on limited information supplied to it by Tesla (“According to the documents, no manufacturer-related defects could be found”). So it’s hard to give their “investigation” much credibility.

Compare that to what the US NHTSA is asking for. As the *Detroit News* [reported Tuesday](#), the safety agency has requested that Tesla turn over detailed records of all consumer complaints, field reports, warranty claims and property damage claims related to the fires.

“Describe in detail all possible consequences to the vehicle from an impact to the subject component that damages the battery,” wrote NHTSA vehicle integrity chief D. Scott Yon. “Describe in detail how these possible consequences were addressed in the design of the (Model S) and the limits of that design to prevent

damage to the propulsion battery, stalling and fires.”

The newspaper reported that Yon also asked for the results of all Tesla’s tests, studies, and investigations to review the battery fires and the alleged defect, and information about whether Tesla made any changes to the Model S to address the possible defect of roadway debris sparking fires in the battery packs. He also wants detailed records of vehicles at the time of the incidents, owner contact information, and all communication to owners or regional officers that the company plans to issue in the next four months.

The letter was dated November 27, and Tesla has until January 14 to respond. That’s about 50 days just to gather the information – more than twice as long as it took the Germans to collect, analyze and conclude their inquiry – that cleared Tesla.

Tesla has carefully controlled information that’s been released about the fires, including statements from the Model S owners. For the most part media reports have derived from these. It makes you wonder if there is some sort of non-disclosure agreement between the company and its vehicle owners.

For example, in early October – shortly after the first fire in Kent, Wash. – Musk posted an essay on Tesla’s blog that explained how the Model S – struck a large metal object – that caused damage.

– A curved section that fell off a semi-trailer was recovered from the roadway near where the accident occurred and, according to the road crew that was on the scene, appears to be the culprit, – Musk explained. – The geometry of the object caused a powerful lever action as it went under the car, punching upward and impaling the Model S with a peak force on the order of 25 tons. Only a force of this magnitude would be strong enough to punch a 3-inch diameter hole through the quarter inch armor plate protecting the base of the vehicle. –

Maybe so, but for all the physical explanations Musk has tried to present, no photos of the large metal object have been produced. Nor are there any pictures – that are reasonably findable on the Web, at least – of the tow hitch that was accused of causing the Model S fire in Tennessee. In such a hotly scrutinized case you’d think Musk would be parading the evidence if it existed, but he hasn’t.

In the same blog post Musk went to great lengths to argue a conventional gasoline powered car, in the same circumstances, could have experienced a far worse fate.

– A typical gasoline car only has a thin metal sheet protecting the underbody, leaving it vulnerable to destruction of the fuel supply lines or fuel tank, which causes a pool of gasoline to form and often burn the entire car to the ground, – he wrote.

But the crash data [doesn’t support that](#). As Justin Hyde of Yahoo!’s automotive Web site Motoramic [wrote](#) in early November, – Even though it has fewer electric cars on the road than its competitors (such as the [Chevy Volt](#) or [Nissan Leaf](#)), none have reported similar fires after crashes. And while liquid-fueled vehicles suffer about 170,000 such fires every year, federal data show they take place in only 0.1 percent of all crashes. –

Tesla’s control freakishness is also reflected in how the Model S owners who were fire victims. Has any independent journalist interviewed them? Below Musk’s blog post was a portion of an email exchange between Tesla’s vice president for sales and service and Rob Carlson, the Washington driver. The VP’s missive came off as a carefully crafted (lawyered?) explanation of how the fire occurred and that the Model S’s safety protections – operated correctly. – In reply, Carlson supported Tesla’s response to the incident and said, – I am still a big fan of your car and look forward to getting back into one. – Then he revealed that he is an investor in Tesla – so certainly a critical response on his part would not have helped the value of the shares he owns!

As for the American investigation, time â€ and a serious examination â€ will tell whether Tesla needs to revisit its Model S design or not. Before the fires NHTSA still gave it a top safety rating, which seemed more like it was [joining the irrational exuberance party](#) rather than an accurate evaluation. The signs point to the agency taking this a lot more seriously than the Germans did, but then again, this is the [Obama administration](#) weâ€ re talking about, which has relentlessly protected and subsidized the electric vehicle industry.

[illegible]

- Samsung tries to silence user whose S4 caught fire, it doesn't go over well

Oh Samsung, you tried to have a YouTube video pulled after it showed a [Galaxy S4](#) that caught fire while charging but this is about to blow up in your PR and legal teams face after you sent a “hush” document to the user.

Wrong. What Samsung has done, foolishly, is sent the user a document saying that they will exchange his defective device only after he pulls his initial video from YouTube. If Samsung was unaware of how the Internet works, it's about to find out that trying to quiet the user will result in a black eye for the company.

280

Samsung has goofed up big time as the original YouTube video, at the time of this posting, had 45,000 views and the video showing the Samsung demand letter, well, it has over 277,000 views.

The video discussing the letter and the incident is posted above and is worth a watch. It goes to show what Samsung will do anything to keep its S4 issues off the radar but in this case, it has completely backfired. Not to mention that having to sign a contract to execute a warranty is borderline unethical for the circumstances of this incident.

Additionally, the lithium ion in Apple iPad Tablets are exploding:

[iPad Air explodes, erupting with smoke and flames in retail](#)

The appeal of Apple's sleek and slender new **iPad Air** is significantly diminished when it **explodes** and pours out flames along with so much smoke that the fire department has to be called in to extinguish the blaze.

news.yahoo.com/ipad-air-explodes-erupting-smoke-flames

[iPad Air EXPLODES leading to mobile phone shop evacuation](#)

Shop is evacuated and fire brigade are called after brand new **iPad Air EXPLODES** and fills mobile phone store with smoke . Sparks and smoke flew from device released on November 1

dailymail.co.uk/news/article-2492189/iPad-Air-EXPLODES

[iPad Air EXPLODES INTO FIREBALL as terrified fanbois flee](#)

iPad Air EXPLODES INTO FIREBALL as terrified fanbois flee Apple Store Charred fondleslab removed by Apple minion for testing

theregister.co.uk/2013/11/08/ipad_air_explodes_into_fireball

[iPad Air explodes at retail store in Australia](#)

An Apple **iPad Air** reportedly exploded at a Vodafone retail store in Canberra, Australia, prompting the need to call the fire department to put out the flames and smoke.

vr-zone.com/articles/ipad-air-explodes-retail-store

[iPad Air explodes in Vodafone store | CellularChief](#)

A Vodafone store in Canberra, Australia was evacuated and firefighters were called in after the explosion of an Apple **iPad Air** inside the store resulted in the release of smoke that filled the retail establishment.

cellularchief.wordpress.com/2013/11/08/ipad-air-explodes-in-vodafone

[iPad air explodes in Australia, fire department had to be](#)

iPad air explodes in Australia, fire department had to be called in to contain the smoke Posted by Stefan Constantinescu on Nov 08, 2013 | No Comments »

iphonehacks.com/2013/11/ipad-air-explodes-australia-fire

LITHIUM!!!!!!!!

Hard to Take the German Absolution of Tesla Fires Seriously

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revealed that he is an investor in Tesla – so certainly a critical response on his part would not have helped the value of the shares he owns!

While not exactly tanking, Musk likely felt some anxiety (and investor pressure) when the company’s stock dropped from almost \$200 earlier this year to about \$120 the last couple of weeks, after the fires. Publicly Musk has said Tesla’s share price was overpriced anyway (he’s right), but at the same time, what executive wants to see a rapid drop like he’s seen? Not a moment too soon, this week he discovered a way to turn the German inquiry of the Model S fires into a Wall Street bump – the stock is up to almost \$139 this morning.

As for the American investigation, time – and a serious examination – will tell whether Tesla needs to revisit its Model S design or not. Before the fires NHTSA still gave it a top safety rating, which seemed more like it was [joining the irrational exuberance party](#) rather than an accurate evaluation. The signs point to the agency taking this a lot more seriously than the Germans did, but then again, this is the [Obama administration](#) we’re talking about, which has relentlessly protected and subsidized the electric vehicle industry.

[Originally posted on the [National Legal and Policy Center](#)]

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Tesla Safety Challenged! The Facts:

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Deadly Smoke and Fumes. If the crash and fire don’t kill you now, the toxins in the deadly smoke fumes kill you later.

(See all that smoke in the TESLA fire, above? That smoke is filled with deadly toxins from burning [lithium ion](#) combined with plastics. Why does Tesla say nothing about this in its buyer documents? See all the cars stuck in traffic in the smoke plume? Do those innocent drivers, and their families, that have to sit there, behind the fire and in the smoke, appreciate having to breath in deadly vapors? See the fireman with the Full-Hazmat breathing apparatus on? He knows it sucks.)

Per the IJES via the State School of Chemical Engineering and Technology of China:

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(Image above: New tests can see the cancer causing chemicals that got in your body from a Tesla fire from just two strands of your hair or one drop of blood or one swab of saliva. You can’t hide product toxic poisoning anymore.)

There are a **vast number** of MSDS disclosure forms and technical product documents from the feds, the battery companies, the FAA, the TSA, the SME, The IEEE and tons of others say that – Lithium ion batteries will explode and they will give off toxic gas – .

Why were the Tesla’s not equipped with carbon dioxide fire extinguishers as required? Why was a simple

sheet of soft metal placed between the explosives and a **“ thousands-of-pound-per-sq.-ft. impact surface”** (the road)? Was the car actually engineered or did Musk just doodle it out on the back of a napkin? You can hit the edge or front of the car and it will go off. The reason **“ Elon Musk stands behind Tesla”** is because they usually **blow up starting from the front.**

Andrew- DC Group

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TESLA COVER UP

Lithium Ion goes boom when it gets wet, poked, charged, used or pretty much gets unhappy for no apparent reason. All those car hulks, below, lined up next to each other are lithium ion electric piles of burned up \$100K, per pile, cars, Nice huh? They are going to great lengths to cover that fact up:

(Notice the surgeon who owned it. Most of these guys are Swinginâ“ D Rich Guy Male Doctors)

Those images above show many different lithium ion electric car fires. Why is this being covered up? By whom? So far, most Tesla's have been acquired by **Tesla Fan Boys and their own investors** to pump up the numbers. This has prevented a number of "thermal events" from getting reported.

WHAT!!!!? You donâ€™t think thatâ€™s enough burning Teslaâ€™s? Well hereâ€™s some more, the next one is from Boston:

Not enough burning Teslaâ“ s?

Stand byâ€”!

RS- LAT

â“ --

Tell The U.S. Government to order Tesla to remove all Lithium Ion chemicals from itâ€ s cars! Is someone telling the NTSB not to do their job? Who?

TESLA CAN LOCK DOORS ON ITS OWN- BURNING ALIVE = BAD THING!

You can read a number of postings online about the continual failure of the Tesla electronic door handles and door locks. How might fire increase these failure-to-unlock issues. Is it possible your own Tesla could lock you, and your family, INSIDE the car when it catches fire? How was this tested in the safety tests, or was it even tested?

The Tesla Defects seem to be multiplying.

Roberta- (A Mother)

18650 battery you can buy on Amazon and Ebay so **Tesla is not telling the truth about “ having a battery supply problem” in their latest financial reports.** They are having a **battery blow-up problem.** Suppliers won’t sell them any batteries because they know Tesla abuses the batteries in the way they deploy them in cars and they don’t want to get sued too, along with the lawsuits that are coming after Tesla. These batteries were never intended to be used in cars. All this has been known for decades. If the “ biggest electric car funding effort in history” hired the “ greatest technical review team ever created”, how did this get by? Why didn’t the reviewers mention this for Tesla’s “ loan”? This is not new technical information!

Dr. Lee- USGA

(FYI- I am available for TV interviews. Contact me through the SOMO funnel.)

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NHTSA has now called Musk a Liar TWICE, said he lied about probe and lied about NHTSA safety rating

The National Highway Traffic Safety Administration (NHTSA), which produced the safety rating, **isn’t happy about Tesla’s boasting.**

In its announcement, Tesla explained that the Model S earned five-star marks in every category; a rare feat. On top of that, its overall Vehicle Safety Score, provided to manufacturers, gave it a “ new combined record of 5.4 stars.”

In a statement on its website, the NHTSA issued a rebuke to Tesla:

“ NHTSA does not rate vehicles beyond 5 stars and does not rank or order vehicles within the star rating categories. In addition, the agency has guidelines in place for manufacturers and advertising agencies to follow to ensure that accurate and consistent information is conveyed to the public.”

<http://www.businessinsider.com/nhtsa-tesla-didnt-request-investigation-2013-11>

<http://www.businessinsider.com/government-mad-at-tesla-over-safety-claim-2013-8>

Reporters use a new technology called: **FACTS**, to recall that only just the other day Musk was screaming in the press that “ no recall” and “ no probe” was needed, yet today he says he has secretly been demanding that NHTSA do a probe. Hmmmm? Interesting!

Bloomberg, Guardian and Reuters staff have now spoken with NHTSA staff, including the head: **David Strickland**, who have said, on record, that **Tesla did NOT request probe** and that it would be “ unprecedented” for any car company to request a liability probe like that. **Another Musk lie to his investors.** Both the lie and the counter, published and on the record. NHTSA said it had already had concerns about Tesla prior to any calls from Tesla or Tesla’s investors. Previous communications had been from Tesla backers and Senators (Who Tesla investors already had in their pockets) saying “ don’t do a probe” ! Another P.T. Barnum “ smoke-screen” move by Musk. Musk tried to take credit for creating Tesla even though Martin Eberhard created Tesla. Musk tried to take credit for creating the probe even though the feds had it already going. Musk tried to take credit for inventing electric cars even though GM and others did it decades earlier. Musk changed the NHTSA safety results and got caught lying about that too. Musk tried to take credit for creating the HyperLoop even though MIT created it 9 years earlier. What’s up with this douche bag?

[DailyTech](#) â€” [Round Two: Fisker Karma Goes Up in Flames in California](#) Aug 13, 2012 â€” Yet another **Fisker Karma** has gone **up** in smoke, making this the second â€” A **Fisker Karma** driver from **Woodside**, California parked his hybrid at the â€” .. is an intercooler coupler blowing off and making a sound like a gunshot.

<http://www.dailytech.com/Round+Two+Fisker+Karma+Goes+Up+in+Flames+in+California/article25389.htm> â€” [View by Ixquick Proxy](#) â€” [Highlight](#)

DST-LAT

â€” -

TESLA PATENTS, FILED WITH FEDS, SHOW MUSK KNEW CARS WERE UNSAFE!

TESLA knew their car was unsafe and says so in their own patent filings. This, alone, says Musk was lying. The extreme **military tank-type** â€” **ballistic shield**â€” measures called for in their patent, below, are shocking proof that they knew how awful lithium ion is the way they use it. In **another** Tesla patent, Tesla says, in THEIR words filed with the feds: â€” â€” *Thermal runaway is of major concern since a single incident can lead to significant property damage and, in some circumstances, bodily harm or loss of life. When a battery undergoes thermal runaway, it typically emits a large quantity of smoke, jets of flaming liquid electrolyte, and sufficient heat to lead to the combustion and destruction of materials in close proximity to the cell. If the cell undergoing thermal runaway is surrounded by one or more additional cells as is typical in a battery pack, then a single thermal runaway event can quickly lead to the thermal runaway of multiple cells which, in turn, can lead to much more extensive collateral damage. Regardless of whether a single cell or multiple cells are undergoing this phenomenon, if the initial fire is not extinguished immediately, subsequent fires may be caused that dramatically expand the degree of property damage. For example, the thermal runaway of a battery within an unattended laptop will likely result in not only the destruction of the laptop, but also at least partial destruction of its surroundings, e.g., home, office, car, laboratory, etc. If the laptop is on-board an aircraft, for example within the cargo hold or a luggage compartment, the ensuing smoke and fire may lead to an emergency landing or, under more dire conditions, a crash landing. Similarly, the thermal runaway of one or more batteries within the battery pack of a hybrid or electric vehicle may destroy not only the car, but may lead to a car wreck if the car is being driven or the destruction of its surroundings if the car is parked.*â€”

Plus this other Tesla patent which says you need to, essentially, be in a **military tank** to drive a Tesla safely. Patent calls for â€” **Ballistic Shielding**â€” to keep drivers & passengers alive !!!!!:

http://www.patentlens.net/patentlens/patents.html?patnums=US_8286743#tab_1

HJ- BOST

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Per SME, lithium ion has blown up in products over 2000 times more often than any other energy storage.

Lead acid batteries, gasoline, hydrogen, nickel metal hydride, and all other product energy storage technologies **COMBINED have NOT blown up as much as lithium ion** has gone thermal in cars, airplanes, cell phones, computers, data centers, tablets, backup power systems and other systems. People have died in

some of these incidents. Planes have crashed. Homes have been set on fire. People have been horribly burned. It is not OK to let lithium ion investors buy the news media and shut down the articles about these dangers.

Hj, WSJ

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Please Send This open letter to the German Federal Motor Transport Authority, or Kraftfahrt-Bundesamt (KBA):

Regarding: Your recent Tesla â“ safety declarationâ“ .

Dear German Federal Motor Transport Authority:

It is quite surprising to hear that your organization has declared the Tesla completely safe without engaging in full due diligence. It makes it appear like someone got bribed. We certainly hope that Deutsche Bank staffâ“ s substantial positions in Tesla held no bearing. We see that Deutsche Bank staff were just indicted for massive securities fraud and we hope that is just a coincidence.

Numerous organizations and experts have provided data showing that the car is not safe. The statistics, historical facts about lithium ion, and actual evidence point to the opposite conclusion. Many websites, including: <http://lithium-ion.weebly.com> and others provide rather contrary evidence. Teslaâ“ s own patent documents state that the car is not safe. The Chevy Volt was recalled for far less battery issues with lithium ion.

There are over 200 safety concerns that can be provided to you in a documented report. America has not even started their safety investigation and has requested a deep set of technical documents from Tesla. Did your agency request such documents?

The members of the public hereby request publication of the identities of the reviewers, the methods and analysis methods they employed, the read-out of their data and the conclusive, specific data that the research was based upon. Here is a link to a much more overt investigation you might want to review:

<http://somo1.com/2013/12/06/tesla-safety-report-vers-1-05-public-wiki-produced-for-nhtsa-and-other-governmental-agencies>

Sincerely,
XXX

Please feel free to send your own version to **Kraftfahrt-Bundesamt (KBA)** at:
pressestelle@kba.de

and at this link:

http://www.kba.de/cln_031/nn_540136/EN/Service_en/Contact/Contact_node_en.html?_nnn=true

and by hard-copy mail to:

Kraftfahrt-Bundesamt
Stabsstelle (Office of Interdepartmental functions)
Mr. Thomas Meyer
24932 Flensburg

ki- ggt

German Tesla Safety Review exposed as Sham ! [MORE HERE>>>](#)

NHTSA Tesla Public Wiki Safety Report is [HERE>>>](#)

On Elusive Tesla battery facts . More [HERE>>>](#)

Is SolarCity's use of Tesla batteries unsafe for homes and for Solarcity?. [More HERE>>>](#)

Tesla challenged by auto safety research group to pass the safety tests listed [HERE>>>](#)

Did Tesla bankers at Deutsche Bank order German's to give Tesla a wave-through on safety review that never actually happened? [More HERE>>>](#)

Samsung exploding Lithium ion Galaxy COVER-UP Expose proves Danger of Lithium ion! Lithium ion and Cover-Ups seem to go hand-in-hand. [Samsung tries to silence user whose S4 caught fire. it doesn't go over well](#)

[Brad Sams0](#)

Oh Samsung, you tried to have a YouTube video pulled after it showed a [Galaxy S4](#) that caught fire while charging but this is about to blow up in your PR and legal teams face after you sent a hush document to the user.

Here's the deal, YouTube user [GhostlyRich](#) posted a video on YouTube in early December that showed that his Samsung Galaxy S4 caught fire while charging. While the battery did not explode (thankfully) you can clearly see the charging port is burnt. To no surprise, a burnt charging point rendered the device useless and seeing that the Phone is still under warranty, you would think Samsung would simply exchange the device and make good with the consumer to fix the issue.

Wrong. What Samsung has done, foolishly, is sent the user a document saying that they will exchange his defective device only after he pulls his initial video from YouTube. If Samsung was unaware of how the Internet works, it's about to find out that trying to quiet the user will result in a black eye for the company.

Yes, we can understand why a company would want keep this type of incident quiet but anyone who has a basic understanding of the Internet will tell you that once it's posted to the web, there is no way to delete it. Sure, removing the video might keep it a bit quieter, but that would likely only raise more suspicion in the long run with the followers of that YouTube channel.

Samsung has goofed up big time as the original YouTube video, at the time of this posting, had 45,000 views and the video showing the Samsung demand letter, well, it has over 277,000 views.

The video discussing the letter and the incident is posted above and is worth a watch. It goes to show what Samsung will do anything to keep its S4 issues off the radar but in this case, it has completely backfired. Not to mention that having to sign a contract to execute a warranty is borderline unethical for the circumstances of

Michael Graham Richard
Transportation / Cars @ Treehugger

The Associated Press only writes: “ A person briefed on the matter says General Motors will ask Volt owners to bring their electric cars into dealers to strengthen the structure around the batteries.” We should have more details later today, but if you own a Volt, expect to be contacted by your dealer and to have to bring them you car for some strengthening of the structure protecting the battery pack.”
###

(C) GM

The Tesla battery box wall is a mere breath away from a deadly road surface moving with tremendous force and the lower edge of the car where an impact is most likely to occur. Thousands of pounds of shock force will instantly do things to those batteries that will be: **Awesome in a frightening and fire-explosion kinda way.**

[illegible]

Safety Investigations:

public.affairs@dot.gov

Criminal Investigations:

<https://tips.fbi.gov/>

with a copy to:

askdoj@usdoj.gov

antitrust.complaints@usdoj.gov

<https://wb-gop-oversight.house.gov/>

Chairman Barbara Boxer
Senate Select Committee on Ethics
220 Hart Senate Office Building
Washington, D.C. 20510
Fax: (202) 224-7416

Please send them any helpful tips or just a kind note of encouragement!

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Incriminating New Evidence!

Corporate testing videos have now been uncovered showing mice in a glass box exposed to a single burning Tesla [Lithium ion](#) cell and then exposed to a single burning Tesla Lithium 2 inch ion battery with a section of Tesla car body plastic and metal burning. After the **horrid results**, the mouse bodies were tested for toxins. Needless to say, none of the results were good. U.S. Government MSDS documents reveal the toxic vapor danger from these batteries was **fully documented** outside of DOE, yet never discussed by staff. Federal MSDS documents, from multiple federal agencies, **specifically state** that the Tesla lithium ion batteries are **deadly toxic when burning**.

DF- NYP

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Tesla fires Canâ€ˆ t be ignored no matter what the CEO says

<http://www.consumeraffairs.com/news/tesla-fires-cant-be-ignored-no-matter-what-teslas-ceo-claims-112013.html>

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Tesla Batteries Act Like Solid â€ˆ rocket fuelâ€ˆ when they ignite!

As of 11/6/2013 Tesla had said there were only 3 fires, yet social media shows there were many more fires. Those other fires have been documented in photos and videos and Elon Musk has said **he has tracking chips** on all of the cars so Tesla had to have known about all of the other fires. The reality of the documentation and the statements from Tesla seem to clearly show a cover-up. [Lithium ion](#) in a metal box **burns like solid rocket fuel** when it gets going in a fire. Musk would have known this since he started SPACE X: **A rocket company! (Which keeps having technical failures)**

RS-LAT

Additional Tesla Fire News Expose Links:

<http://cornellsun.com/blog/2013/11/26/fires-problems-persist-for-tesla/>

Bad Engineering

It was an **idiotic move** to use thousands of [lithium ion](#) consumer flashlight-type batteries, **that were never made to be used in a car**, to create an entire bed of toxic explosive material and put it just a hair breadth away from a surface that can puncture, explode and inflame it. That surface, the road, is trying to puncture, bump, and destroy the undercarriage, of every car, every inch of every mile of every road across the country. Also, the batteries are so close to almost all of the outside edges of the car, that puncture damage in a crash is certain. They decided to **CHEAP OUT** with the flashlight batteries yet they charge buyers insane amounts of money for a car with a **growing list of technical failures**. What were these people thinking?

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Understanding Tesla's Life Threatening Battery Decisions

In the last couple of months, electric cars from Tesla Motors (TSLA) have had three collision-related battery fires that were widely covered by the media. Last week, the NHTSA decided to conduct a formal investigation of these incidents. While Tesla's CEO Elon Musk immediately went on the offensive arguing that Tesla's BEVs have a lower fire risk than gasoline powered cars, the question an increasing number of investors are asking is "Why has Tesla had three battery fires in a fleet of 17,000 BEVs while Nissan hasn't had any fires in its fleet of over 90,000 BEVs?" The answer is simple. Tesla's battery decisions significantly increased battery risks for both the customer and the company. [MORE!](#)

Musk Claim of Fewer Tesla Fires Questioned in MIT Report

Bloomberg

By Angela Greiling Keane & Jeff Green

Tesla Motors Inc. (TSLA) cars have **caught fire caused by collisions more often** than gasoline-powered vehicles, according to a Massachusetts Institute of Technology report **rebutting assertions by Elon Musk**, the electric-car maker's chief executive officer.

Because only 4 percent of vehicle fires are caused by collisions, **Tesla's Model S sedan, with a rechargeable lithium-ion battery, is statistically more likely to catch fire than are cars with gasoline tanks**, wrote Kevin Bullis, senior editor for energy for MIT Technology Review.

Update: <http://muckrack.com/link/tdT2/musk-claim-of-fewer-tesla-fires-questioned-in-mit-report>

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Disco Inferno- Burn Baby Burn

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ELON MUSK CANCELS HIS CROSS COUNTRY DRIVE IN A TESLA FOR FEAR OF HIS LIFE AND THE SAFETY OF HIS KIDS

Didn't Elon say he was just about to make a cross country drive in a Tesla?

[Elon Musk to Drive a Tesla Across the U.S. But the](#)

Elon Musk is planning to **drive** from Los Angeles to New York using only a Model S and **Tesla** Superchargers. But he'll have to wait until the end of the year before the automaker's quick charging network is actually built out. According to **Musk**, the trip will take six days and cover 3,200 miles

wired.com/autopia/2013/09/musk-cross-country/

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IRONIC TESLA BILLBOARD

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NOW look at what is blowing up!!!. THIS JUST HAPPENED IN the middle of all this too!!!!: Massive numbers of OTHER Lithium Ion devices blowing up.

[iPad Air explodes. erupting with smoke and flames in retail](#)

The appeal of Apple's sleek and slender new **iPad Air** is significantly diminished when it **explodes** and pours out flames along with so much smoke that the fire department has to be called in to extinguish the blaze.

news.yahoo.com/ipad-air-explodes-erupting-smoke-flames

[iPad Air EXPLODES leading to mobile phone shop evacuation](#)

Shop is evacuated and fire brigade are called after brand new **iPad Air EXPLODES** and fills mobile phone store with smoke . Sparks and smoke flew from device released on November 1

dailymail.co.uk/news/article-2492189/iPad-Air-EXPLODES-â€œ

[**iPad Air EXPLODES INTO FIREBALL as terrified fanbois flee â€œ**](#)

iPad Air EXPLODES INTO FIREBALL as terrified fanbois flee Apple Store Charred fondleslab removed by Apple minion for testing

theregister.co.uk/2013/11/08/ipad_air_explodes_into_firebâ€œ

[**iPad Air explodes at retail store in Australia**](#)

An Apple **iPad Air** reportedly exploded at a Vodafone retail store in Canberra, Australia, prompting the need to call the fire department to put out the flames and smoke.

vr-zone.com/articles/ipad-air-explodes-retail-storeâ€œ

[**iPad Air explodes in Vodafone store | CellularChief**](#)

A Vodafone store in Canberra, Australia was evacuated and firefighters were called in after the explosion of an Apple **iPad Air** inside the store resulted in the release of smoke that filled the retail establishment.

cellularchief.wordpress.com/2013/11/08/ipad-air-explodes-in-vondafoâ€œ

[**iPad air explodes in Australia. fire department had to be â€œ**](#)

iPad air explodes in Australia, fire department had to be called in to contain the smoke Posted by Stefan Constantinescu on Nov 08, 2013 | No Comments Â»

iphonehacks.com/2013/11/ipad-air-explodes-australia-firâ€œ

**What kind of battery did they put in the Apple ipad AIR?
LITHIUM!!!!!!!!!!**

Randy Oates- DC

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TESLA MATH:

If one IPAD can **take out a whole store** and a Tesla has the equivalent of **thousands** of IPAD batteries in each car, how many homes in your neighborhood can a Tesla take out?

I want my neighbor to keep his Tesla at the office. Musk has made a big point out of saying, in recent interviews, that the new fires were not â€œ **spontaneous**â€œ thereby **admitting** he knows that **Lithium Ion CAN go off spontaneously** like it did in the **Boeing planes** and with many other electronics in the last 10 years.

GH- Boston G

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By Jerry Hirsch- LA Times

By Jerry HirschNovember 7, 2013, 8:39 a.m.

The 9%, or \$13.40, decline in mid-morning trading to \$137.76 followed a 15% plunge in the shares Wednesday after the automaker said limited supplies of batteries were hampering sales and that it was spending heavily on research and development to design new models. Tesla shares have been on a run for most of the year, rising about 400% before this reversal.

It is a complaint thatâs also starting to show up on Teslaâs owners forum, an online discussion group hosted by the automaker for drivers of its cars.

He said Tesla had to replace the drive unit twice to fix the problem.

“ We’re not sure what to think about the fact that both of these repairs were completed with just one overnight stay,” said Mike Schmidt, Edmunds’ vehicle testing manager. “ Maybe the dealer is really on the ball. Maybe the supply chain is short. Or maybe the parts are readily available because they’ve seen these before.”

Meanwhile, another Model S electric car caught fire Wednesday near Smyrna, Tenn., following a crash. This was the third Model S to have caught fire in the last five weeks. One burned near Seattle and another in Mexico. Both cars were in crashes and the fires injured no one.

300

The [National Highway Traffic Safety Administration](#) reviewed the Tesla fire in Seattle and concluded it was caused by the accident rather than a vehicle defect.

“The problem is that we have three fires in six weeks,” said Karl Brauer, senior analyst at [Kelley Blue Book](#), the car information company. “For a company with a stock price based as much or more on image than financials, those recurring headlines are highly damaging.”

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With all of these lithium ion cars, IPADs and phones just blowing up and going off more and more, does the increased prevalence of WIFI, broadcast signals and atmospheric radiation and other ion drivers make Lithium Ion increasingly more likely to go off?

"over a milion failures of this chemistry and these batteries.."

"LITHIUM ION BATTERIES ARE MADE OVERSEAS BY CHEAP LABOR WHERE OSHA CAN'T WATCH. POOR PEOPLE MAKE LITHIUM ION BATTERIES OFF SHORE WHERE THEY ARE NOT TOLD ABOUT THE TOXIC CANCER, LIVER AND LUNG DISEASES THEY GET FROM THE MANUFACTURING PROCESS. SILICON VALLEY VC'S PUSH LITHIUM ION BECAUSE THEY CAN MAKE A HUGE PROFIT ON THE CHEAP LABOR BUILDING A BATTERY THAT SELF DESTRUCTS BUILT BY WORKERS WHO DIE FROM TOXIC POISONING. CHINESE, MALAY, MEXICAN AND OTHER WORKERS, SHOULD FILE CLASS ACTION LAWSUITS AGAINST SILICON VALLEY VC'S WHO PUSH THESE BATTERIES."

<http://www.youtube.com/watch?v=uFl8v1lxH0k>

301

October 2, 2013, 4:27 PM

Tesla Motors Inc. TSLA shares tanked after a video of a Model S on fire circulated on the web, prompting the electric car company to move quickly to douse the flames of bad publicity.

Elizabeth Jarvis-Shean, director of global communications at Tesla, confirmed that the vehicle engulfed in flames was indeed a Tesla but stressed that the driver walked away without injuries.

Tesla Issues Statement On Fiery Car Crash That Caused The Stock To Tank

i” Mamta Badkar Oct. 2, 2013, 3:45 PM 13,469 11

tesla
Aj Gill via YouTube

Tesla's stock was down over 7% to a low of \$175.40 today, but pared some of its losses to close down 6.24% at \$180.95.

It appears that shares began to tumble in the last half hour on reports that a Tesla Model S car caught fire on Washington State Route 167.

Some speculated that the video highlights problems with the car's battery. Though others rushed to point out that the battery is located in the back of the car.

"Media finds that "Safety Investigators" (read "SHILLS") are bribed by VC's and lithium holding companies to say "nothing to see here", "lithium batteries are probably ok". Beware of NTSB "consultant's" and "investigators" who are being bribed, offered after-politics high pay jobs, called up by bribed congressional staff with "suggestions", given sports tickets, handed stock in certain ventures and other bribes. Many of the "investigators" need to be put under investigation themselves!!!! When you see an investigator talking about how lithium ion is a wonderful thing, investigate them!"

The following are a variety of quotes, from across the web, demonstrating the critical nature of this public safety issue:

â“ Lithium ion batteries are blowing up, starting fires and, generally, destroying peopleâ“ s homes, cars, electronics and physical health. Boeing was just ordered to stop flying the 787 Dreamliner because it's Lithium ion batteries are catching fire spontaneously."

"A group of silicon valley venture capitalists forced/leveraged the government to buy and pay for these

specific batteries, that they have stock in, in order to benefit their profit margins. Other batteries don't have these problems. They knew about this from day one but put greed ahead of safety. There are thousands and thousands of reports of spontaneous lithium ion fires but the VC's who back lithium ion pay to keep this information hushed up.

Millions of these batteries have been recalled for fire risk. The VC's tried to push as many as they could before they got caught. Now they are caught. These VC's own stock in lithium mining companies too."

"Here is the Fisker Karma after it got wet and the batteries blew up. These batteries blow up JUST FROM GETTING WET! ALL of these burned up hulks are brand new \$100,000.00+ cars that just blew up and torched everything around them just because they got wet! How bad do you want a Fisker or Tesla now? Fisker's insurance company is balking at paying for this saying: "You knew this would happen".

These links show vast sets of Fisker electric cars that burst into flames just because they GOT WET:

<http://updates.jalopnik.com/post/34669789863/more-than-a-dozen-fisker-karma-hybrids-caught-fire-and>

<http://green.autoblog.com/2012/08/12/fisker-flambe-second-karma-spontaneously-combusts-w-video/>

<http://www.autoblog.com/2012/11/05/how-sandy-may-have-set-17-plug-in-hybrids-on-fire/>

<http://www.digitaltrends.com/cars/fisker-karma-spontaneously-combusts/>

<http://cbdakota.wordpress.com/2012/11/07/fisker-karmas-catch-fire-following-inundation-by-sandy/>

<http://www.engadget.com/2012/08/12/fisker-karma-hybrid-ev-second-fire/>

<http://www.techfever.net/2012/08/fisker-karma-hybrid-ev-ignites-while-parked/>

<http://evmc2.wordpress.com/2012/11/04/fisker-karma-fire-report/>

<http://fellowshipofminds.wordpress.com/2012/05/12/karma-burns-owners-mansion/>

<http://www.carbuzz.com/news/2012/11/1/Karmas-Ignite-After-Hurricane-Floods-Newark-Port-7711437/>

There are vast sets of other links proving the point.

Look at this: We were just sent a link that our website showed up in this movie:

Here is another link to the movie at: <http://tinypic.com/r/7295hs/6>

HERE IS THE BATTERY YOU COULD HAVE BEEN SITTING ON TOP OF IN A TESLA

THIS IS THE TESLA MAGIC CARPET OF DOOM. THIS WHOLE THING IS FULL OF LITHIUM.
YOUR WHOLE FAMILY IS SUPPOSED TO SIT ON TOP OF THIS!!!

TESLA HAS TO TEST THEIR BATTERIES IN a **BLAST CHAMBER!!!!!!!**:

IF TESLA SAYS THIS THING IS SO SAFE WHY DO THEY TEST IT IN A STEEL ENCLOSED
EXPLOSION ROOM WITH WIRES COMING IN THROUGH BLAST HOLES!!!!??????

"TESLA ELECTRIC CARS HAVE 6800 CHANCES OF "GOING THERMAL".

"TESLA ELECTRIC CAR BATTERIES ARE MORE LIKELY TO BLOW UP." SAYS STANFORD

ENGINEER, "USING LITHIUM ION IN AN ELECTRIC CAR DOUBLES THE CHANCES IT WILL EXPLODE OR GO THERMAL BECAUSE AN ELECTRIC CAR PUSHES IT FURTHER THAN ANYTHING ELSE. BOEING HAD MANY SAFETY CIRCUITS AND EVEN THOSE FAILED. THERE IS NO WAY THE TESLA SAFETY CIRCUITS WILL NOT EVENTUALLY FAIL"

"Tesla Electric cars have 6800 lithium ion batteries wedged into a box. This can create a repercussive thermal event that can set the whole car off. The TESLA 18650 batteries can be seen exploding in multiple YOUTUBE videos. It is NOT TRUE that they are "an entirely different battery" they are the same chemical compound that blows up."

"A direct quote from **Tesla's patent application**, below. Tesla KNEW this was going to happen and never adequately warned anybody. Tesla wrote these words in the federal papers they filed yet they never showed these words to any buyers :

"Thermal runaway is of major concern since a single incident can lead to significant property damage and, in some circumstances, bodily harm or loss of life. When a battery undergoes thermal runaway, it typically emits a large quantity of smoke, jets of flaming liquid electrolyte, and sufficient heat to lead to the combustion and destruction of materials in close proximity to the cell. If the cell undergoing thermal runaway is surrounded by one or more additional cells as is typical in a battery pack, then a single thermal runaway event can quickly lead to the thermal runaway of multiple cells which, in turn, can lead to much more extensive collateral damage. Regardless of whether a single cell or multiple cells are undergoing this phenomenon, if the initial fire is not extinguished immediately, subsequent fires may be caused that dramatically expand the degree of property damage. For example, the thermal runaway of a battery within an unattended laptop will likely result in not only the destruction of the laptop, but also at least partial destruction of its surroundings, e.g., home, office, car, laboratory, etc. If the laptop is on-board an aircraft, for example within the cargo hold or a luggage compartment, the ensuing smoke and fire may lead to an emergency landing or, under more dire conditions, a crash landing. Similarly, the thermal runaway of one or more batteries within the battery pack of a hybrid or electric vehicle may destroy not only the car, but may lead to a car wreck if the car is being driven or the destruction of its surroundings if the car is parked."

"WTF!!!!!!

Tesla's own staff have now admitted that once a lithium ion fire gets started in one of their cars, it is almost impossible to extinguish burning lithium ion material. This is Tesla's own words in THEIR patent filing, (You can look it up online) saying that the risk is monumental. Tesla has 6800 lithium ion batteries, any one of which can " go thermal" and start a chain reaction! If you look at all of the referenced YOUTUBE movies you will see how easy it is to set these things into danger mode."

"Imagine a car crash with a Tesla where these 6800 batteries get slammed all over and then exposed to rain, fire hose water, water on the roads, cooling system liquid.. OMG!! And then if, in that same accident the other car is a gasoline car" getting burned alive sounds " BAD" ! Tesla is covering up the problems with its batteries."

"Lithium ion batteries have already crashed a UPS plane and killed people. Look here:

<http://washingtonexaminer.com/dreamliner-fires-spark-new-doubts-about-a-green-energy-technology/article/25>

More Lithium Ion Battery disasters:

<http://www.forbes.com/sites/petercohan/2013/01/24/is-787s-lithium-ion-battery-hazardous-to-boeings-health/>

"AS A DEMONSTRATION OF HOW DANGEROUS LITHIUM IS, NASA IS GOING TO MAKE IT BURN IN OUTER SPACE:

"If you're along the Eastern Seaboard tonight, it might be worth your while to look at the sky this evening.

NASA's Wallops Flight Facility is scheduled to launch a sounding rocket that will release "two red-colored lithium vapor trails in space."

As Space.com reports, those trails might be seen across the Mid-Atlantic and perhaps as far north as Canada and as far south as

northern Florida. Space.com explains how these trails will produce a "night sky show:"

"The sounding rocket that will be used to create the two NASA-made glowing cloud trails will be a Terrier-Improved Orion. In this technology test launch, two canisters in the rocket's payload section will contain solid metal lithium rods or chips embedded in a thermite cake. The thermite is ignited and produces heat to vaporize the lithium.

"Once the vapor is released in space, it can be detected and tracked optically. The rocket will eject two streams of lithium which will be illuminated at high altitudes by the sun (which will be below the local horizon at ground level)."

In a statement, mission project manager Libby West said the launch is a test flight for two upcoming missions. It'll give scientists a view of two different methods for creating lithium vapor trails. By the way, NASA says the "lithium combustion process poses no threat to the public during the release in space."

If lithium is so dangerous it will even burn in space, why are we putting it in our airplanes and cars??????

Lithium Ion batteries blow up and burn down commercial building:

<http://westhawaii.com/sections/news/nation-world-news/787-battery-blew-%E2%80%999906-lab-test-burned-down>

"Tesla and Fisker have only sold a few hundred cars, (thank god) because nobody but dicks want these overpriced eliteist toys. A regular car company sells hundreds of thousands of cars per model. Every single Tesla or Fisker sold increases the likelihood of a burn up. Those burn-ups will affect the homes, cars and lives of the people next door who never even bought one."

"Go to <http://www.youtube.com> and type into the search window:

â€œ Lithium ion explosionâ€œ or â€œ lithium battery and waterâ€œ or â€œ lithium ion waterâ€œ and any related derivation and you will find hundreds of videos about how dangerous these batteries are. There are numerous videos of Tesla's 18650 batteries blowing up."

"This article in the LA Times sheds more light of the horrors of Lithium Ion:

<http://articles.latimes.com/2013/jan/18/business/la-fi-dreamliner-battery-20130119> "

"Lithium Ion batteries â€œ go thermalâ€œ in peoples pockets, in your notebook, especially in your Tesla and Fisker car and everywhere else. There are thousands and thousands of articles documenting this and there is a cover-up by the VCâ€™s that fund these things to keep this fact out-of-sight.

Making Lithium Ion batteries poisons the workers who make them. It is a dangerous product. Each time the workers, particularly in Asia, realize they are being poisoned by the factory, they jack up the product. Outlaw lithium ion batteries. Demand a recall.â€œ

There are PLENTY of other energy storage solutions that do not involve the highly compromised Lithium Ion chemistry!"

"Below are a few samples of HUNDREDS of videos proving that Lithium Ion Batteries JUST BLOW UP. This is why TSA does not want them, or liquid, on planes."

Report: Galaxy S 4 Lithium Explosion Burns Hong Kong Home To The Ground:

• By [Stephanie Mlot](#)

A Hong Kong couple have been displaced after an exploding Samsung Galaxy S 4 smartphone burst into flames, burning their house to a crisp.

The man, identified in the [original Xianguo.com report](#) only as Mr. Du, claims that his phone, battery, and charger were all legitimate Samsung products, but that's now difficult to confirm since his home and everything in it were destroyed.

According to the translated report, Du sat on the living room sofa playing the game "Love Machine" on his charging GS4 when it suddenly exploded. In the heat of the moment, he threw the device onto the couch, which caught fire. The flames then spread to the curtains and the rest of the house, "out of control," Xianguo said.

Du, his wife, and his dogs managed to escape the house unscathed; neighbors were temporarily evacuated as firefighters fought the flames. Almost all of the couple's furniture and appliances burned to ash, the news site said, adding that their Mercedes parked outside was also damaged.

Whether or not the true cause of an entire house fire was a singular 5-inch smartphone remains to be seen, though a fire department investigation initially resulted in a report of "no suspicious circumstances."

Samsung did not immediately respond to PCMag's request for comment, but told Xianguo that it will "carry out detailed investigations and tests to determine the cause of the incident." Last year, a Galaxy S III owner in Dublin was driving in his car when [the device caught fire](#). Cell phone safety is increasingly becoming an issue in Asia, where two cases of iPhone shock occurred within a week of each other this month. On July 11, a 23-year-old flight attendant with China Southern Airlines was [allegedly electrocuted](#) when she took a call on her Apple device while it was charging. She was reportedly using the original charger when she was killed.

Here is what the Lithium Ion Batteries did to their home:

Boeing 787 Dreamliner woes put spotlight on lithium ion battery risks **BY KEN BENSINGER, Los Angeles Times**

Chances are the same kind of battery that twice caught fire in Boeing 787 Dreamliners in recent weeks is in your pocket at this very moment.

Lithium ion batteries, small and powerful, have become the electricity storage device of choice. They are everywhere — in cellular phones, laptops, power tools, even cars. They allow us to talk, email and drill longer than ever possible in the past.

But the incidents that led to the grounding of the 787 fleet worldwide, and the decision by Boeing on Friday to temporarily halt all deliveries of the plane, have highlighted a troubling downside of these energy-dense dynamos: their tendency to occasionally burst into flames.

FOR THE RECORD: Dreamliner batteries: An article in the Jan. 19 Section A on lithium ion battery safety and the grounding of the Boeing 787 incorrectly described a fire in a Chevrolet Volt automobile. The battery did not ignite spontaneously; instead it burned after a crash test damaged the vehicle's cooling system and the test car was left parked with the battery fully charged, eventually causing it to overheat. With investigators now working to determine the cause of the incidents, one on a Dreamliner on a Boston runway, the other forcing an emergency landing of a 787 in western Japan, the larger

question of lithium ion safety has snapped into focus.

"Every battery can burn and every battery can be flammable," said Mike Eskra, a Milwaukee-based battery development scientist who also works as a battery fire investigator for insurers. "But lithium ion batteries are more dangerous because they store more energy. It's like a firecracker instead of a stick of dynamite."

The casualty list is long. In recent years, tens of thousands of laptop batteries have been recalled due to the risk of fire or explosion. The 400-pound lithium ion battery on General Motors' cutting-edge electric car, the Chevrolet Volt, burst into flames seemingly spontaneously while parked in 2011. And investigators blamed a cargo hold full of lithium ion batteries for a fire that caused a UPS-operated 747 to crash shortly after takeoff from Dubai in late 2010.

That crash, which killed both pilots, is one of more than 100 incidents recorded by the Federal Aviation Administration linking lithium ion batteries to onboard fires over the last two decades. This month, new rules took effect limiting the transport of lithium ion batteries in aircraft. And the FAA had long prohibited use of the technology in commercial airplanes.

That changed in 2007, when it granted Boeing permission to use the batteries in the 787 under a number of conditions to ensure safety. For Boeing the lithium ion advantage was clear.

Thanks to their chemistry, the rechargeable batteries can store as much energy as a nickel metal hydride pack that's 50% heavier, while charging and discharging faster than other battery types. That's made them attractive for military applications such as the B-2 bomber and also for use on the International Space Station and the Mars Rover.

Lithium ion batteries enabled Boeing to swap out heavy hydraulic systems in the airframe for lightweight electronics and electric motors to operate systems like wing de-icers. That's a key reason the Dreamliner burns 20% less fuel than other wide-body aircraft.

The weight and power savings are exactly what made lithium ion batteries popular in other applications. In excess of 95% of mobile phone batteries worldwide are lithium ion, and without lithium ion, laptops couldn't run anywhere near as long as they do without a recharge.

"They completely dominate the consumer market," said Vishal Sapru, energy and power systems research manager at consulting firm Frost & Sullivan in Mountain View, Calif.. He estimates that global sales of lithium ion batteries reached \$14.7 billion last year, up from \$9.6 billion in 2009, a 53% increase. Sapru expects the market to soar to \$50.7 billion by 2018. "No other battery chemistries are growing at that rate."

But lithium ion also has downsides. The batteries tend to have shorter life spans than older, more proven battery technologies. And although the price is falling, lithium ion is still more expensive than other batteries. Although some carmakers have embraced the technology, others, such as Toyota, have decided against it. Several makers of lithium ion auto batteries for electric vehicles have filed for bankruptcy last year because of weak demand.

Safety experts also have concerns. Because lithium ion batteries can store more energy, and discharge it more quickly, than other batteries, lithium ion cells can get much hotter than other technologies in the event of an overcharge or the external application of a heat source. Larger applications, such as the 63-pound batteries on the 787, incorporate multiple cells and the heat can spread rapidly from cell to cell, a chain reaction called "thermal runaway."

And while other types of batteries use a water-based electrolyte in each cell, lithium ion relies on a highly flammable solvent. When heated up, that solvent tends to vaporize, spraying the burnable gas into the surrounding air. As a result, lithium ion battery fires burn extremely hot, as high as 2,000 degrees Fahrenheit.

Those conditions were blamed for an explosion at a General Motors battery testing lab last April that caused \$5 million in damage and sent one person to the hospital. GM said flammable gas had vented from an experimental lithium ion battery that heated up during extreme testing.

"Lithium ion is very controversial in the safety engineering space," said Brian Barnett, vice president for battery technology at Tiax, a technology firm in Lexington, Mass. He spoke last month at a conference on battery safety in Las Vegas, where more than three-quarters of the presentations focused on lithium ion batteries.

The cause of the fires in the two Dreamliners has still not been determined and neither Boeing nor the Japanese company that made the batteries, GS Yuasa, have publicly commented on likely factors. Boeing subjected the batteries on the plane to thousands of hours of testing and installed numerous safety systems specific to the batteries.

"We have high confidence in the safety of the 787 and stand squarely behind its integrity as the newest addition to our product family," Boeing Chief Executive Jim McNerny said Friday.

Barnett and others emphasize that it's not uncommon to see problems in relatively new technologies. But they add that most lithium ion fires are caused by an external problem, such as a bad circuit or a software glitch that leads to overcharging. Another common problem in consumer electronics is the use of low-cost wiring and other components that can overheat and spark or catch fire next to the battery itself.

Eskra, the battery fire investigator, said he's seen fires started by Chinese-made toys that use lithium ion batteries hooked up to chargers designed for nickel cadmium or nickel metal hydride batteries. Manufacturing errors, including allowing tiny metal particles to contaminate cells, can cause dangerous shorts, although they are exceedingly rare.

"Somebody tried to cut corners somewhere," he said, noting that most lithium ion fires are caused by a tiny part that malfunctioned somewhere along the line and are easily resolved. "It's a \$2 fix, but it takes half a million dollars in research to figure out what it is."

Sometimes the problem is more persistent. In 2006, Sony announced a global recall of more than 10 million lithium ion laptop batteries used in a variety of laptop computers after more than a dozen fires, and two years later issued a second recall.

"This is a battery type that is only one of hundreds of possible batteries but this particular type was pushed by a few companies and investors so they could make money off it at the risk of public injury or death..."

LITHIUM ION BATTERIES BLOW UP THE VEHICLES THEY POWER

By Carli Brosseau Arizona Daily Star

When a test of a lithium-ion battery charger turned into an inferno at Securaplane Technologies Inc. in 2006, temperatures reached as high as 1,200 degrees and three waves of firefighters failed to save the building. An employee of the Oro Valley company blasted the flaming battery with a fire extinguisher to no effect. Two hours later, the galvanized metal roof collapsed, and the 10,000 square-foot building was a total loss.

It's a fire that federal safety regulators are taking another look at now, since Securaplane provides two key battery components to the Boeing 787 Dreamliner, the start-power and battery-charger units. Records from local Golder Ranch Fire Department, the first of three fire departments to respond to the blaze, describe "an uncontrolled thermal reaction (that) caused the battery to vent and this venting caused the ignition to various items and fixtures throughout the test lab area."

"The electrical technician who was performing a test on the battery when it exploded likened the experience to being near a jet after-burner. Electrolytes from inside the battery were shooting 10 feet into the air, the former Securaplane employee, Michael Leon, said in an interview Friday. "The magnitude of that energy is indescribable."

"The fire stands as a graphic illustration of the power stored within energy-dense lithium-ion batteries and the potential consequences if something goes awry. It also highlights the importance and delicacy of the quality-control measures applied to a novel - and potentially explosive - technology, a technology now allowed, under special conditions, to be used as the main and auxiliary power source of certain aircraft. The Boeing 787 Dreamliner, the company's newest and most energy-efficient plane, uses two lithium-ion batteries. After two battery-related incidents in the past month, the 50 Dreamliners distributed so far have been grounded."

"Whistleblower: Dreamliner LITHIUM ION Batteries Could Explode

He says he was fired after warning about battery problems

By Christopher Freeburn, InvestorPlace Writer

Boeing's (NYSE:BA) new 787 Dreamliner could end up being a nightmare for the aircraft giant.

A former senior engineering technician at Securaplane Technologies, which makes the charging system for the lithium-ion batteries used in 787 Dreamliners, told CNBC that the batteries are defective and liable to explode if they overheat."

" Lithium-ion batteries are heat intolerant, according to a potential whistleblower familiar with...

Lithium-ion batteries are heat intolerant, according to a potential whistleblower familiar with their technology. "Too much heat on those things, they will go into a thermal runaway, they will explode." The informant, a former senior engineering technician of Securaplane Technologies, was fired in 2007 for repeated misconduct, but he says it was in retaliation for voicing concerns about the batteries. The NTSB acknowledges that the lithium-ion batteries in Boeing's (BA) Dreamliner experienced a thermal runaway, but insists there's no connection between the incident and the whistleblower's claims. "

"The Japan Transport Safety Board makes a number of interim points. This battery, unlike one that burst into flames in a Japan Airlines 787 earlier in January, did not actually ignite. It experienced a thermal runaway, as a result of a build up of heat, yet the materials affected did not start burning. While the semantics might escape the casual observer the safety investigator said:-

â€ The battery was destroyed in a process called thermal runaway, in which the heat builds up to the point

where it becomes uncontrollable.

“ But it is still not known what caused the uncontrollable high temperature” .

In simple language, uncontrollable rises in temperature will if uncontrolled most likely result in a fire, including one that can burn through structural composites and alloys, and prove almost uncontrollable by fire fighters, *even on the ground*.

It took a Boston airport fire brigade detachment 99 minutes to put out the Japan Airlines fire using equipment unavailable if the airliner was hours away from an emergency landing strip in the high arctic or north Pacific, which that particular flight had only recently traversed before the fire broke out after landing.

The Japan air safety investigator said the wire supposed to ground or discharge static electricity build ups in the battery had been severed meaning it had experienced abnormal levels of current.

However as also confirmed by the early stage of the US incident investigation into the Japan Airlines fire, this large lithium-ion battery had not experienced a voltage surge, and had so far as flight data recordings could tell, had been operating normally immediately before the emergency landing.

Expect the news release in Japan to cause more tension between those who want the 787s to fly again pending a full understanding of the causes and cures in these incidents, and independent safety investigators who will recommend to safety regulators like the FAA a continuation of the grounding"

Death By Tesla

By Susan Johnlo For Web Times (Based on actual events)

The sun glistened off the sleek futuristic body of the six figure Tesla sports car as it careened around the next curve of the beautiful Malibu coastal highway.

Below, the Pacific Ocean spread out to the horizon in an endless carpet of blue, undulating waves and sparkling wonder.

Nickleback was blaring from the speakers of the car, the driver's hair was tossed in the wind, his popped collar was flapping in the high speed rush of air and his Ray Bans barely hid his I-own-the-world feeling of delight in the moment.

Then the gates of hell opened up“

The car suddenly swerved, it dived straight off the cliff. Did the driver smell the smoke, or see the flames first? We may never be sure.

Was the, notoriously, hackable Tesla suddenly taken over by Chinese hackers, who had found his car IP address on the internet? That is another question that has yet to be resolved.

What is certain, is the horrific death that then followed. As investigators, safety engineers and fire officials detail the sequence of events, the results require a warning to readers: **Do not read further if you have a**

weak stomach”

First, lithium ion battery number 862, in the floor pan of the car, experienced the collapsing housing of the lightweight aluminum box housing that surrounded it. The collapsing metal pierced the skin of the first battery. This was caused by the first rock that the lower corner of the Tesla floor pan slammed into.

The rapid compression, and distortion of the 3 inch long Tesla battery caused that battery to buckle and forced the metal compounds inside, the lithium ion core battery chemicals, to experience the force as a pyrotechnic trigger. This, then caused that battery to release vapors, while at the same time, igniting those vapors like a little hand-grenade.

This battery had just been struck, ignited and exploded, and in that fire and explosion it was releasing gases which the driver was inhaling in his last moments of life. Those gasses have been publicly documented by The FDA, OSHA, Panasonic, and hundreds of other laboratory-grade facilities, to be the cause of cancer, liver damage, neurological damage, fetal damage and other deadly health issues.

If this driver had not been killed by the fire and explosions, he would have had a longer, slower set of lethal issues to contend with.

Back to battery number 862; a few milliseconds after battery number 862 experienced the catastrophic explosion, battery number 863, right next to it, experienced the same devastating failure. This was followed by battery number 864, then number 865, then number 866, milliseconds apart. A chain reaction of self-igniting thermal hell was underway and no fireman could stop it now, nor, could they stop it after the crash.

The unstoppable nature of this lithium ion battery fire, set Malibu Canyon, itself, on fire.

So these flashlight-type batteries, that every Tesla driver is sitting on top of, are going off like military grade incendiary devices, during this crash, one-after-the-other.

These flashlight batteries were never made to be used in cars. Safety engineers say that Elon Musk’s decision to use these batteries, in this way, was based on rapid profit exploitation, and not on proper engineering.

Be that as it may, we are now mid-way through the slow motion movie of this crash. The batteries are exploding, one after the other, the car is plowing through the rocks and debris as it dives off the cliff. But the horror has only begun. How many batteries do we have to watch explode in this single vehicle? NEARLY 8000 EXPLODING BATTERIES.

Let us stop and consider this fact.

Where only one in 40 gasoline tanks, in each regular car accident, ever explodes. Here, in one car, you have nearly 8000 possibilities of an explosion AND each battery, that explodes, has an extremely high likelihood of setting off, all the rest, in a chain reaction. Do you like those odds? You have a 400% better chance of winning the lottery.

In our slow motion analysis, we have only crossed the half-way point in the accident. The front of the car is crumpling, the heavy batteries are being thrown upwards, through the floor of the car, to cover the driver in exploding lithium metal particles, and the cockpit of the car is filling up with some of the most toxic fumes you can legally produce.

Still, the worst is yet to come.

The special alloys, which Tesla decided to make its car out of, turn out to interact with the exploding batteries to cause an effect called alloy conflagration. The very metal of the Tesla car has now been set on fire by the massive heat from these exploding batteries. The car has turned into the public version of a military phosphorous bomb, one of the most hideous military weapons of all time. This burning metal composition is worse than napalm, it can burn all the way through your face, your skull, and any bones in your body. It is a fire that almost nothing can extinguish.

Molten, flaming metal is dripping on the driver and it is coming from every side of the car, surrounding him in a fireball of deadly metal lava.

The car has finally come to a rest in a fireball. The driver is consumed in a nightmare of fire, dripping molten metal and deadly toxic smoke. The pain is beyond comprehension.

He is, in the same moment, burned to death, asphyxiated and entombed in red hot liquid metal.

The resulting fire, in the Canyon, is, at first, unstoppable and threatens the entire community of homes.

The first responderâ€s attempts to douse the car fire, only make it worse! Water, it turns out, makes lithium ion batteries explode all over again. The car has been filled with a type of battery that mere bumps, and water, can cause to explode. Let me repeat this for emphasis: **WATER MAKES LITHIUM ION BATTERIES EXPLODE**. Not only does water *not* put out lithium ion fires, **IT MAKES THEM WORSE!**

Hours later, after the car has burned itself out, the first responders try to recover the body.

The problem is, they canâ€t recognize a body. The driver has been burned into an unrecognizable lump of melted plastic, molten metal and human flesh.

His lovely drive down the coast ended in a horror as awful as any nightmare midnight movie.

So this use, of this battery, in this way, was decided by the very Senators and billionaire campaign investors who owned the stock in this battery. If you wonder why a deadly choice, like this, was made about a battery that already had all of these dangers fully documented, on federal record; the answer can be found in one word: Corruption.

This massive oversight, putting the public at such risk, took place because a kick-back scheme was created by Mr. Musk, and his campaign finance partners. They chose greed, over scientific facts. Those chose mining commodity deals, and expediency, over proper engineering. They chose corruption, over anything else.

So, when you buy a Tesla, you need to think about your own safety and the safety of the American political system. Consider not supporting corruption and consider supporting the safety of yourself and your family: Buy an Audi!

"One aspect that may confuse some people relates to the decision to use this particular type of battery. The danger posed by it has been evident by a lengthy and documented list of disturbing events in recent years. They include many thousands of batteries used in laptops being recalled, because of determined risks of fire or explosion. General Motors were also placed in the battery limelight. In 2011, the 400 pounds Lithium ion battery in their Chevrolet Volt apparently was subject to spontaneous combustion when it burst into flames, while reportedly in a parked vehicle. In 2010, a UPS-operated Boeing 747 crashed just after take-off from Dubai. Investigators placed the blame on a cargo hold that contained Lithium ion batteries, for a fire that caused the incident."

A number of incidents of cell phones with lithium ion batteries blowing up in peoples pockets, notebook computers blowing up in peoples briefcases and other shocking fires have been deeply documented.

FISKERS CARS BLEW UP AND BURST INTO FLAMES JUST BECAUSE THEIR LITHIUM ION
BATTERIES GOT WET

"Here is where they make some of these batteries, in forced labor camps:
<http://www.thedailybeast.com/newsweek/2013/01/13/china-s-labor-pains.html> Because, as we all
know, chinese prostitutes are the best choice to make the things that keep our airplanes in the air and
our cars on the road. The silicon valley venture capital guys front these batteries because they have
such cheap labor to give them great profits.. quality control? not so much..."

What Went Wrong With The Electric Car Industry?

Only men seem to start car companies. Most psychologists say that this is because men see cars as dick insecurity emblems.

Elon Musk is known to be a wildly insecure narcissist who feels that he must get every woman, that he can find, pregnant in order to prove his manhood to his abusive father, who got his sister pregnant.

Musk embodies the ultimate expression of “car-as-dick” thinking because Musk was not only molded by his purse-swinging, kept-woman, mother, abusive father and crooked brother but also by the Silicon Valley frat boy rape-culture.

Silicon Valley is, of course, the Eden of modern misogyny and tech-bro douche-baggery.

Musk dragged all of the biggest assholes from Silicon Valley, The DNC and Goldman Sachs into his Tech Cartel. Together they created a temporary monopoly in the electric car industry by exchanging stock market payola with Senators and White House staff who, in exchange, locked off the electric car and space industries just for Musk.

But that scheme was not sustainable. It was amazingly crooked and lucrative but, it could not last. It was Big Tech’s Roman Empire and it was doomed to fail spectacularly.

Musk counted on Obama and Biden to stick with his original quid-pro-quo deal to trade government cash for election rigging via his boyfriends at Google and Facebook. Tesla was the money conduit for a bunch of political scammy.

Biden and his cheerleader actress front girl: Jennifer Granholm, bounced into office with a Wizard of Oz promise to give everybody electric cars. They were so wrong about the pitfalls of their plan and they hired so many idiot sex freaks and unicorn fart unaware fools that their scheme blew up...instantly and literally.

Elon Musk and the Senators he owns: Pelosi, Harris and Feinstein, will lie, until their dying day about these batteries that they all own stock in! -

--- Lithium ion batteries: Cause wars, rape and genocide in the Congo, Afghanistan and Bolivia from the corrupt mining deals involved with mining lithium and cobalt; are insider trading-owned by ex-CIA boss Woolsey and DOE Boss Chu; excrete chemicals that mutate fetuses when they burn; destroy your brain, lungs and nervous system when they burn; kill the factory workers who make them; cause Panasonic to be one of the most corrupt companies in the world; poison the Earth when disposed of; can’t be extinguished by firemen; poison firemen when they burn; are based on criminally corrupt mining schemes like URANIUM ONE; Have over 61 toxic chemicals in them; come from an industry that spends billions on internet shills and trolls used to say all other forms of energy; are insider-trading owned by corrupt U.S. Senators who are running a SAFETY COVER-UP about their dangers.

---- Apple products with lithium ion batteries have been exploding and setting people on fire; over time the chemical dendrites inside each battery grow worse and increase the chances of explosion as they age

“ LITHIUM ION BATTERIES BECOME MORE AND MORE LIKELY TO EXPLODE AS TIME GOES ON AND AS THEY AGE; “ Bad Guys” have figured out how to make them explode remotely; have their dangers hidden by CNN and MSM because pretty much only the DNC people profit from them; are the heart of Elon Musk’s stock market scam.

---- The Obama Administration promised Silicon Valley oligarchs the market monopoly on lithium ion batteries and the sabotage of fuel cells in exchange for campaign financing and search engine rigging; United States Senators that are supposed to protect us from these deadly products own the stock market assets of them so they protect them and stop the FDA, OSHA, DOT and NHTSA from outlawing them. WRITE YOUR ELECTED REPRESENTATIVE AND DEMAND THAT LITHIUM ION BATTERIES BE MADE ILLEGAL TO SELL! NiCAD and Hundreds of other battery chemistries DO NOT have all of these problems but Lithium Ion batteries get a monopoly because of politician insider trading ownerships.

---- A recent fire on U.S. Highway 101 near Mountain View, CA, burned the driver alive and killed him. In Florida two kids died in a Tesla, burned alive, screaming in agony. A man died in agony in a Tesla crash in Malibu that set Malibu Canyon on fire. A young woman, at the start of life, and her boyfriend were burned alive in their crashed Tesla.

---- There are many more deaths and crashes than you have heard about. The deaths and the cover-ups are endless. Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies and they cover-up and halt investigations and laws designed to save the public. They, and their cronyists, spend over \$1B a year to still and troll hype about lithium ion batteries and cover-up the dangers. Lithium ion EVs are more prone to battery fires. Experts say that their lithium-ion batteries can fuel hotter fires that release toxic fumes and are more difficult to put out.

---- Lithium ion fires keep reigniting which explains why it takes so long and requires copious amounts of water or foam (it is an electric fire, after all) to smother the flames. Tesla employee Bernard Tse and his team warned Elon Musk about these dangers in 2008 and they got fired and/or warned to "say nothing" by Musk. Three top Tesla engineers died in a plane crash next to Tesla offices in San Carlos after two of them agreed to become whistle-blowers. Elon Musk exists because he bribed DNC politicians and Senators Feinstein, Reid, Boxer, Harris, Clinton and Pelosi to give him free taxpayer cash and government resources from the Dept. of Energy and the Calif treasury.

---- DOE has been covering-up organized crime activities at DOE in which DOE funds are being used as a slush-fund to pay off DNC campaign financiers and to pay for CIA/GPS Fusion-Class attacks on Silicon Valley business competitors of those DNC campaign financiers who DOE staff share stock market holdings with. Elon Musk is a criminal, a mobster, an asshole, a bald fake-hair wearing, plastic surgery-addicted, douchebag, woman-abusing, sex addicted, tax evader.

---- Musk exploits poor people and child slaves in the Congo and Afghanistan to mine his lithium and Cobalt. Musk spends billions per year to hire Russian trolls, fake blogger fan-boys and buy fake news self-aggrandizement articles about himself. Musk thinks he is the "Jesus" of Silicon Valley. Fake News manipulator Google is run by Larry Page and Larry is Musk's investor and bromance butt buddy.

---- Musk uses massive numbers of shell companies and trust funds to self-deal, evade the law and hide his bribes and stock market insider trading. A huge number of Tesla drivers have been killed; pedestrians and oncoming drivers have also been killed, and Musk covers it up.

---- The DNC and the MSM refuse to allow any articles about Musk's crimes to be printed because they benefit from Musk's crimes. Musk has been professionally diagnosed as a "psychotic narcissist." A "Silicon Valley Mafia; cartel of frat boy sociopath venture capitalists like Steve Jurvetson, Tim Draper, Eric Schmidt, et al; threaten those who do not support the cult of Tesla or their political candidates.

---- In EVERY blog that you read that mentions "Musk", at least 1/3 of the comments have been placed there by Musk's paid shills. Musk holds the record for getting sued for fraud by his investors, wives, former partners, employees, suppliers and co-founders.

---- Elon Musk has gone out of his way to hire hundreds of ex-CIA staff and assign them to â€˜dirty tricks teamsâ€™ to attack his competitors and elected officials who Musk hates. Musk never founded his companies. Muskâ€™s â€˜Starlinkâ€™ satellites are domestic spy and political manipulation tools â€˜never get your internet from one. Musk stole Tesla in a hostile ownership take-over from Marty the true inventor of the Tesla.

---- The same kind of EMF radiation proven to cause cancer from cell phones exists in massive amounts in a Tesla. Musk canâ€™t fix a car or build a rocket and has almost no mechanical skills. If you pull a report of every VIN# of every Tesla ever built and cross reference that with insurance, repair and lawsuit records you will find that the â€˜per volumeâ€™ fire, crash, death and defect rate is THE WORST of any car maker in history!

---- Musk is a lying con artist and partners with Goldman Sachs to rig the stock market. Sachs has a dedicated team of 18 men who rig stocks and valuation bumps for Musk. Over 1000 witnesses can prove every one of those claims in any live televised Congressional hearing! Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies.

---- That is why they criminally help cover-up investigations of Tesla! All of this was reported, in writing, to James Comey, Patricia Rich and David Johnson at the FBI. The DNC bosses own the stock in lithium, Solar and EV markets and use kickbacks from those markets (Especially via convoluted campaign finance laundering via Elon Musk) to finance the DNC. The DNC bosses use character assassination as their main political tool against any member of the public who speaks out against their felony stock market scams and PizzaGate-like scandals.

---- The Harvey Weinstein reports by Ronan Farrow show that they have teams of hired goons that they pay to destroy peopleâ€™s lives. They use Black Cube, Mossad, In-Q-Tel, Stratfor, Gawker Media, Gizmodo Media, Media Matters, David Brock, Sid Blumenthal, NY Times, Google servers, Facebook servers, Podesta Group, Perkins Coie, Covington and Burling and a host of â€˜assassinsâ€™.

---- It should be a felony to hire character assassins in the USA. DEMAND A LAW and DEMAND the termination of these attack services. IE: Gawker and Gizmodo Media sets-up the attack stories and, in paid partnership with Google, Google kicks their attack links around the globe, in front of 8 Billion people, forever. Google locks the attack articles of its enemies on the front top search results of Google search results forever, on purpose!

---- That is why Google is being terminated in the largest, most well resourced anti-corruption public service take-down in history! Tesla and Musk are protected by shareholders Harris, Pelosi, Feinstein, Brown and Newsom. Panasonic (indicted for bribery and Muskâ€™s partner) spends billions of dollars annually cover-up lithium battery fires and battery defects.

---- There are hundreds of millions of people in America. The same 120 of them are all involved in operating the same crimes and corruption including: the Sony Pictures corruption; the Afghanistan rare earth mine scandals operated through The Energy Department political slush fund that involves the lithium battery cover-ups (headed by Elon Musk); the Big Tech Brotopia rape, sex trafficking, bribery, exclusionism, racism and misogyny issues they were taught at Stanford University;

---- The Facebook â€˜Metaâ€™ Google â€˜Alphabetâ€™ Netflix, et al, coordinated news manipulation and domestic spying that they engage in; the hiring of Fusion GPS â€˜Black Cubeâ€™ Gizmodo/Gawker assassins; the destruction of the housing market by their mass real estate manipulations; patent theft and industrial espionage; and the bribery of almost every politician all the way up to the Oval Office.

---- So, while the categories covered in this investigation may seem diverse. They are connected through an enterprise of criminality and illicit, coordinated operations. We list, by name, the 120 most complicit individuals organizing these crimes, in the evidence documents already submitted to the FBI, FINCEN, DOJ, FTC, SEC, FEC, Congress, InterPol and other authorities. Digital financial tracking of those persons and all of their family members should be assumed to have been under way for some time. Wire-taps and device taps of those persons and all of their family members should be assumed to have been under way for some time.

Elon Musk's Electric Car Batteries Made By Forced Labor Overseas

Increasing ties have been found between the origin of the batteries needed to power the technology and forced labor in Chinese work camps.

[Jarryd Jaeger Vancouver, BC](#)

As many environmentalists push for a quick transition to electric vehicles and clean energy, increasing ties have been found between the origin of the batteries needed to power the technology and forced labor in Chinese work camps.

One province in particular, Xinjiang, is facing mounting criticism as more details emerge surrounding working conditions for members of the Uyghur Muslim minority. [According](#) to the *New York Times*, while China produces 75 percent of the world's lithium ion batteries, much of the raw material is mined elsewhere. In recent years, however, the Chinese government has set their sights on controlling all aspects of the supply chain.

In order to compete with other countries, China has ramped up production in the western province of Xinjiang, home to the nation's Uyghur Muslim minority.

As the *Times* [reports](#), companies such as Xinjiang Nonferrous Metal Industry Group have partnered with the Chinese government to move hundreds of Uyghurs from the south to the industrialized north where they are put to work in mines, smelters, and factories producing lithium, nickel, manganese, beryllium, copper and gold.

While such companies deny that their workers are mistreated, reports show that Uyghurs are subject to what could easily be deemed to be forced labor.

Uyghurs who refuse to work in accordance with Chinese government policies are often sent to internment camps, and in May it was [revealed](#) that many of those camps have a "shoot-to-kill" policy for those who attempt to escape.

Thus, the official claim that "all employment is voluntary" is not supported.

In addition to forced labor, Uyghurs are also subjected to re-education, wherein government-appointed "teachers" attempt to create loyal subjects to the nation and communist regime.

On June 21, a new law will go into effect in the United States called the "Uyghur Forced Labor Prevention Act." As NPR [reports](#), it gives the US authority to seize goods produced in Xinjiang unless companies can prove they did not engage in forced labor practices.

It's true that doing so will be resisted by Democrats who don't want to slow the deployment of solar panels and electric cars in the US, and be resisted by free market Republicans, but the evidence is clear and this is becoming a moral and national security imperative.

â€” Michael Shellenberger (@ShellenbergerMD) [June 20, 2022](#)

Environmental realist, author, and California gubernatorial candidate Michael Shellenberger is one of many calling on the Biden administration to go one step further and ban the importation of all goods from Xinjiang. He says the US should instead focus on manufacturing green technology at home.

As he points out, however, the decision would face pushback from both Democrats "who don't want to slow the deployment of solar panels and electric cars in the US," and "free market Republicans."

The world has shone a spotlight on the Chinese government's treatment of the Uyghurs in Xinjiang, but it remains to be seen whether the Communist Party and the companies to which it is so closely tied will change their practices.

Blame Lithium Batteries for Samsung Note 7 And Tesla Motors Fires

A major recall of Samsung Galaxy Note 7 phones could also be a wakeup call for manufacturers and consumers about lithium-ion (Li-ion) batteries.

"My brand new Note 7 exploded this morning while I was still asleep, it was plugged in and charging." So begins a [Reddit post](#) from a user in Australia, detailing how a Samsung Galaxy Note 7 caught fire in a hotel room -- causing \$1,800 in damage.

An image of a damaged Samsung Galaxy Note 7 shows that the overheating began at the center of the Li-ion battery.

(Source: Reddit user -- Crushader)

The Reddit post, made in September, was the first noted case in Australia but it would be far from the last in the world. According to the [US Consumer Product Safety Commission](#), beginning in mid-September Samsung received 96 reports of Note 7 phones overheating, of those 13 resulted in burn injuries and 47 in some type of property damage.

On Sept. 15, Samsung initiated a recall of the Note 7, offering to replace units for customers. But in early October the Note 7 made its biggest headlines when a replacement model phone started [emitting smoke](#) on a Southwest Airlines flight from Louisville to Baltimore. Airlines subsequently banned the Note 7 from flights and Samsung would go on to recall all of its Note 7 models, including the replacements -- a total of 1.9 million phones, according to the US Consumer Product Safety Commission.

Initially Samsung stayed quiet on what was causing the phones to overheat, but after dozens of pictures of burnt out Note 7s were posted online, Internet sleuths were able to figure out the problem. Noting where the burn marks appear, a technology reviewer on YouTube who goes by the name JerryRigEverything deduced that the failure was happening with the phone's lithium-ion battery itself and not with the charging port or any part of the motherboard, which were also potential points of failure.

South Korea-based Samsung has since acknowledged that the problem is with the battery but hasn't gone deep into specifics. However, [Bloomberg](#) obtained documents from Korea's Agency for Technology and Standards saying the overheating was being caused by a lack of insulation between the battery's positive and negative electrodes, which created a short. Chris Robinson, research analyst at Lux Research, told *Design*

News that battery shorts like this are common, but there could be more to these Samsung incidents. "A battery short is a common mode of failure, which results when electrical contact is made between the positive and negative electrodes. This oftentimes is caused by a manufacturing defect, such as a contaminant getting into the manufacturing process, but in this case there may be more to the Samsung story," Robinson said via email. "The replacement batteries started catching fire, which could

indicate a larger problem with the design of the handset."

Measuring Battery Life in IoT devices. Many devices used in IoT applications must run on battery power for extended periods of time. To support this, complex power management is required and verifying the effectiveness of these techniques requires specialized testing techniques. Learn more at [ESC Silicon Valley](#), Dec. 6-8, 2016 in San Jose, Calif. [Register here](#) for the event, hosted by *Design News*'s parent company, UBM.

Of course, the Note 7 is only the latest in what has been a series of recent lithium-ion-related issues in consumer products. Back in 2012 the [Fisker Karma](#) was recalled because of battery overheating issues. In 2013 a Tesla Model S [caught fire](#), revealing a design flaw in which the vehicle's battery pack wasn't properly shielded against road debris that could potentially puncture it. And just last Christmas the hottest item on the shelves -- the [hoverboard](#) -- had its hype train derailed when reports started surfacing of shoddy knockoff products with defective lithium-ion batteries catching fire.

It really brings to question why we rely on such a potentially volatile solution for our battery needs. But Robinson said that issues with lithium-ion batteries do not happen at random. "These incidents are problems given how much we use electronic devices and the severity of the fires, but Li-ion batteries can be made safe. However, with Li-ion battery fires there is almost always a reason why they catch fire -- it's not just a random event," he said. "Considering the hoverboard fires, they were caused by mostly Chinese Li-ion manufacturers with poor quality control and no established track record of making volumes of batteries, who hoverboard manufacturers turned to as Li-ion demand increased ahead of rushing these products to market ahead of the holiday season. Fisker battery fires were caused by coolant leaks which led to batteries overheating, and several Tesla fires were related to external damaging of the battery from debris or a crash."

READ MORE ABOUT LI-ION BATTERIES ON DESIGN NEWS:

- [Choosing Between Supercapacitors and Li-ion Batteries in Industrial Applications](#)
- [Thin-Film Coating Boosts Lithium-Ion Battery Performance](#)

"The key component which prevents shorting, a major failure mode of batteries, is the separator," Robinson said. "Many use a polymer separator, but ceramics have been of some interest to the industry for improved safety and durability. However, these add weight and cost to the battery, which is why most companies forego their use." He suggested that, moving forward, these types of separators may become more attractive to companies looking to increase product safety. [Next-generation chemistries](#), things like solid-state batteries, could also be an option. "This also could allow for improved energy density," Robinson said. "But these batteries are not manufactured at the large scale required to supply cell phones, and also add significant costs."

Right now, despite any risks, Li-ion batteries are still the best choice for consumer products and electric vehicles since they offer the best balance of energy and power density and lifecycle. "Previous chemistries, primarily NiMH batteries, could only offer

about half of the performance relative to size and weight that Li-ion batteries can provide." Robinson said.

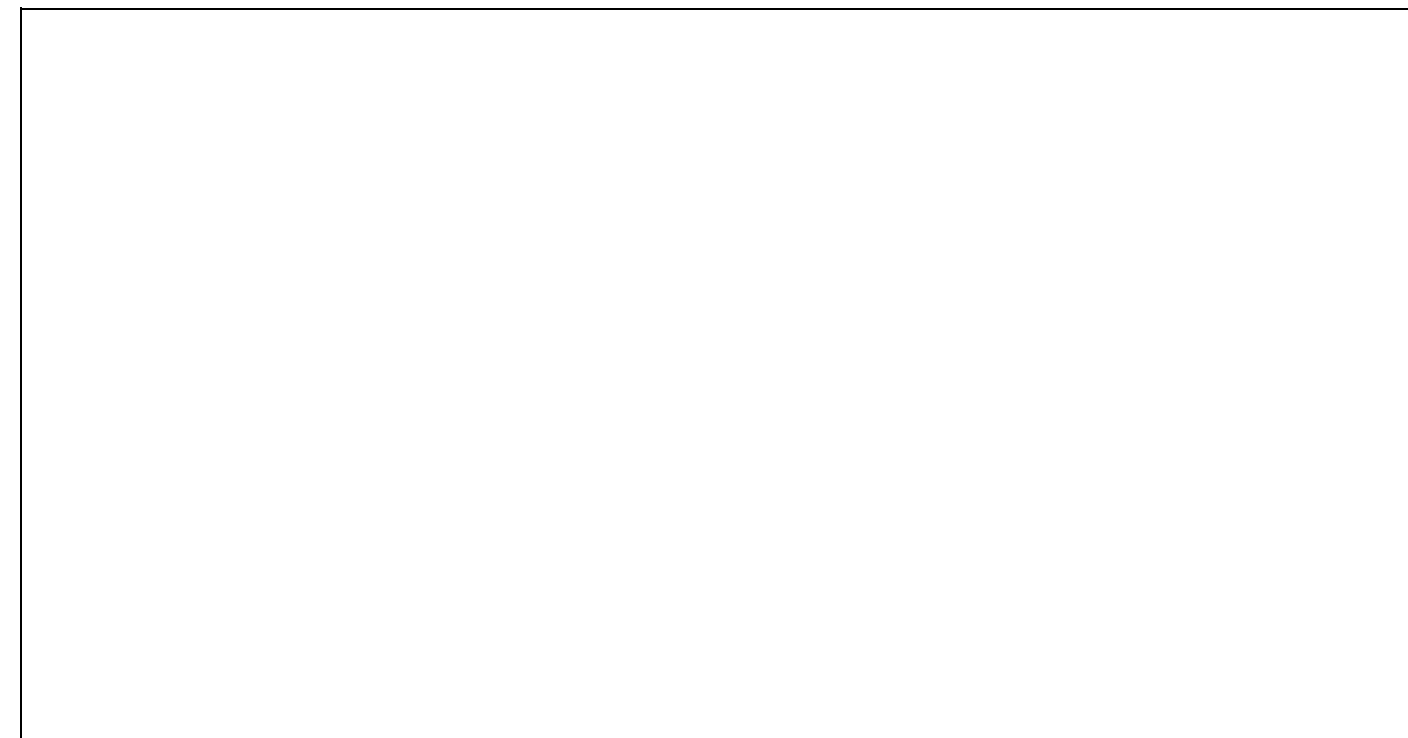
However, as consumers demand products that are not only higher performing but also increasingly light and thin, we may be putting a greater burden on OEMs as far as ensuring product safety. Cramming a battery into a smaller and smaller space while still demanding more power and performance also opens the door for the sort of incidents seen with the Note 7. The Note 7, for example, is Samsung's lightest and thinnest Note model yet (by a small margin), but also has more sensors, a better camera, and more hard drive storage space.

"As manufacturers push for lighter and thinner phones that does make both the battery and system design more difficult," Robinson said. "Batteries must be kept fairly cool to prevent thermal runaway, which leads to fires, and increasingly small space make this difficult. Furthermore, on the cell level, manufacturers try to use the thinnest and cheapest separators as possible, since they add weight, volume, and price to the cell."

[Chris Wiltz](#) is the Managing Editor of Design News

BIDEN AND OBAMA PROMISED THEIR BIG TECH POLITICAL FINANCIERS EXCLUSIVE ACCESS TO THE ELECTRIC VEHICLE MARKET AND LITHIUM ION BATTERY MINES

...IT ALL BLEW UP IN THEIR FACES



Fewer people are buying electric cars â€” the slowdown hints at a problem at the heart of America's EV push. NurPhoto/Getty, Tyler Le/BI Â© NurPhoto/Getty, Tyler Le/BI

Biden and Obama ordered their Department of Energy to sabotage hydrogen fuel cell cars because they obsolete lithium ion cars. That turned out to be a huge disaster for Biden and Obama!

Electric vehicles were supposed to be inevitable. Two years ago President Joe Biden climbed behind the wheel of a beefy white electric Hummer to tout his plan to make [half of all new cars sold electric by 2030](#). The following year Congress passed the Inflation Reduction Act, which created a bevy of incentives for drivers to buy electric and for automakers to invest in EVs. That set off a flurry of new projects: EV plants, battery-manufacturing facilities, and mining operations began popping up. By the end of 2022 the situation looked promising: More and more Americans were going electric, and soon everyone would be driving an EV, reducing emissions in the process.

The transition to an all-EV future seemed like a slam dunk. It would not only give the government a highly visible way to show it's fighting the climate crisis but boost the economy through new jobs and investment. But the electric-vehicle takeover has hit some serious roadblocks.

Sure, [sales of EVs keep going up](#) â€” a record 300,000 cars sold in the US in the third quarter of 2023 were electric â€” but the pace of adoption has markedly slowed, and analysts have suggested the country is no longer [on track](#) to hit the government's sales targets. The trickle-down effects of this decreased demand are everywhere. EVs [accumulated at dealerships](#) this fall, even as automakers cut prices to try to entice customers. Automakers have backtracked on their promised investments: [Ford](#) delayed \$12 billion of its planned \$15 billion investment in EV manufacturing capacity, while General Motors delayed production of key EV models and scrapped a \$5 billion partnership with Honda to make cheaper EVs. Even [Tesla](#) â€” once the superstar of EVs â€” announced it would delay a planned factory in Mexico. Auto execs who were once trumpeting the potential of electric cars are even publicly acknowledging that [EVs aren't working](#).

Industry analysts have pointed to several reasons for the slowdown, including insufficient charging infrastructure and a lack of affordable EV options. But they're a symptom of the larger problem: America's EV plan was flawed from the start. Instead of seeing EVs as one piece of a plan for more sustainable transportation, America has focused on using EVs as a one-to-one replacement for gas guzzlers. But this one-size-fits-all solution fails to address our broader transportation problems, meaning emissions targets are likely to be missed and other transportation problems will continue to go unaddressed.

"The entire myth at the heart of this whole transition is that the battery car seamlessly fits right into the gas car's position," Edward Niedermeyer, the author of "Ludicrous: The Unvarnished Story of Tesla Motors," told me. "It doesn't, and that's the problem."

The EV myth

The mission to replace gas cars with EVs has led to a series of major miscalculations, one of which has to do with the sheer size of the new electric vehicles being put on the road.

Over the past few decades the American auto industry has [become obsessed with huge vehicles](#). The reasons for the size inflation range from profit margins to distorted [government fuel standards](#), but the proliferation of bigger vehicles created a doom loop of consumer preference: Drivers saw the vehicles around them getting bigger, so they wanted bigger cars to make themselves feel safer. Automakers argued that this was proof that people wanted only big cars, so [they cut small models](#) and made existing vehicles bigger, which made people with smaller cars feel less safe â€” you get the picture. Meanwhile, road deaths and injuries soared, while the

larger, less efficient vehicles wiped out [environmental benefits](#) from higher emissions standards.

The entire myth at the heart of this whole transition is that the battery car seamlessly fits right into the gas car's position. Edward Niedermeyer

When automakers pivoted to EVs, they focused on the kinds of cars that were already popular â€” which meant a flood of big electrified SUVs and trucks. But massive-bodied EVs don't make much sense. Larger EVs require bigger batteries, which require more raw materials to manufacture, which requires producers to beef up their [environmentally destructive mining operations](#). While bigger batteries allow drivers to travel farther between charges, they also make the cars heavier, [more dangerous](#), more expensive, and worse for the planet.

The "range anxiety" that has resulted in massive batteries is another reason EVs don't work as a replacement for gas cars. Niedermeyer said that while an electric car can meet most people's driving needs, it struggles with edge cases like road trips because of the need to recharge. Since Americans have been promised a one-to-one substitute for their gas cars, this seems like a failure; an EV should be able to do everything a gas car can. This idea persists even though in 2023 the average US driver traveled only about [40 miles a day](#), and in 2022 about 93% of US trips were less than 30 miles. Still, in a survey conducted by Ipsos last fall, 73% of respondents indicated they had concerns about EV range.

The focus on increasing EVs' range is contributing to their relatively high prices. Unlike with gas cars, the more you pay for an EV, the more range you can expect to receive. And since Americans have been conditioned to want a lot of range, cars with big batteries and longer ranges have dominated the market, resulting in stubbornly high prices. In September, Cox Automotive pegged the average EV price at \$50,683, down 22% from the same time last year. But an analysis from CarGurus found that EV prices were still 28% higher than gas-vehicle prices on average. With prices for everything else â€” rent, groceries, and other goods â€” increasing, the average person has less cash to splurge on an expensive electric vehicle.

All of this means there's a natural limit to the number of American households willing and able to make the shift to electric. They've largely been high-income households in places like California, where charging infrastructure is more plentiful. The polling firm Strategic Vision found that EV buyers have [a median household income of \\$186,000](#). Cox estimated that 8% to 9% of new-vehicle sales in the United States in 2023 would be electric, but getting above that threshold is proving to be more difficult than expected.

The Norway model

If there's any direct inspiration for the United States' EV policy, it's Norway. As the story goes, Norway introduced some compelling subsidies for EVs, sales took off, and now the vehicles virtually dominate the roads. But the reality isn't so simple. And Norway's challenges bode poorly for America's EV push.

Norway shows that if US policymakers stick with the current model of EV transition, it's going to be a difficult road.

Norway introduced EV incentives [in the 1990s](#), then added more when EV technology really took off in the 2010s. EV drivers could get perks like free parking, permission to drive in bus lanes, and, most importantly, exemptions from taxes and fees that could ultimately save them a lot of money. In September, [87% of new-vehicle sales](#) were fully electric vehicles. The problem, Ketan Joshi, a climate-analysis expert in Oslo, told me, is that that stat "doesn't really give you a good picture of the rate of change." Though the new-vehicle sales figure is high, data [from Statistics Norway](#) indicates the total share of EVs on Norwegian roads in 2022 was only about 20% â€” there's still a long way to go until everyone's driving electric.

Even with this shift, Norway isn't on track to meet its [2030 emissions-reduction targets](#). While emissions from passenger vehicles have fallen slightly, Joshi said, those reductions are being canceled out by an increase in emissions from trucks. People in Norway own more cars than they have in the past, in part because EV incentives encourage people to buy *more* cars, and the government has [no plans](#) to reduce how much people are driving. The researcher Benjamin Sovacool and his colleagues have [pointed out](#) that, just like in the US, EV buyers in Norway "tend to be in higher income brackets, often using their EV as a second car."

The Norwegian approach has also had a ton of unintended consequences. Joshi told me that the decline in gas tax revenue due to EV adoption had triggered a contentious political debate about increasing road tolls to make up the difference. (A political party was even formed on the platform of [stopping the tolls](#).) Plus, [heavier electric vehicles](#) are harder on roads, produce more air pollution, and pose a greater safety risk for pedestrians.

Norway has made great headway in getting buyers to go for EVs, but it's not a silver bullet, especially on a short timeline. "It shows you the extreme slowness of transition that is basically guided by the rate at which people buy a new car," Joshi said of Norway's approach. Reducing transportation emissions by incentivizing people to replace their car with an EV is incredibly slow. And for countries like the US that got started late, it's a warning sign.

Norway shows that if US policymakers stick with the current model of EV transition, it's going to be a difficult road. Even if adoption keeps ticking up, it will take a long time to get existing internal-combustion-engine vehicles off the road and see a notable decline in transport emissions. Plus, there will be other issues to deal with like increased road maintenance and pedestrian safety.

"Narrow success in one area is not something you necessarily want to emulate," Joshi said.

Time for a rethink

The shift from gas-powered cars to electric vehicles is an opportunity to rethink how Americans get from place to place. But so far the US government, carmakers, and consumers have been pursuing a small-minded swap that lacks the necessary ambition.

Getting Americans to [ditch driving altogether](#) would be the most effective way to reduce emissions, but it would require a massive rethink of our transport system. Something like that doesn't happen overnight, and given the decadeslong lack of investment in anything other than car infrastructure, there are plenty of other opportunities for a better future. If the government and automakers are serious about making transportation more sustainable, they should be incentivizing smaller vehicles, hybrid cars, and public transportation like trains and buses.

EVs can be an important part of the fight against the climate crisis, but America's EV plan needs to lean into what these cars do well: short daily trips that can be taken in [small, affordable cars](#). People who frequently take long trips can take advantage of hybrid cars. And better public transit and faster intercity trains could make a huge difference for people and the planet.

While it may be a sexy and industry-friendly approach to the climate crisis, an EV-first plan isn't the most effective way to tackle the enormous challenge we face.

THE RARE EARTH CRIMINAL MINING CORRUPTION THAT OBAMA PAID SILICON VALLEY WITH

DEADLY EXPLODING LITHIUM ION BATTERIES AND COBALT CORRUPT RARE-EARTH MINING SCAMS ARE KILLING AND ROBBING THE PUBLIC WITH DIRTY "BLOOD MINERALS" THAT ARE TOXIC, SELF-IGNITING DANGERS

Lithium ion batteries: Cause wars in the Congo, Afghanistan and Bolivia from the corrupt mining deals involved with mining lithium and cobalt; are insider trading-owned by ex-CIA boss Woolsey and DOE Boss Chu; excrete chemicals that mutate fetuses when they burn; destroy your brain, lungs and nervous system when they burn; kill the factory workers who make them; cause Panasonic to be one of the most corrupt companies in the world; poison the Earth when disposed of; can't be extinguished by firemen; poison firemen when they burn; are based on criminally corrupt mining schemes like URANIUM ONE; Have over 61 toxic chemicals in them; come from an industry that spends billions on internet shills and trolls used to say all other forms of energy; are insider-trading owned by corrupt U.S. Senators who are running a SAFETY COVER-UP about their dangers.

NiCad Batteries and hundreds of other battery types do not have this many problems... but the ownership of the lithium mining business by Elon Musk, his Silicon Valley cartel and California Senator's families causes other solutions to be hidden, the dangers of lithium ion to be hidden and a monopoly to exist.

Apple products with lithium ion batteries have been exploding and setting people on fire; over time the chemical dendrites inside each battery grow worse and increase the chances of explosion as they age - LITHIUM ION BATTERIES BECOME MORE AND MORE LIKELY TO EXPLODE AS TIME GOES ON AND AS THEY AGE; "Bad Guys" have figured out how to make them explode remotely; have their dangers hidden by CNN and MSM because pretty much only the DNC people profit from them; are the heart of Elon Musk's stock market scam.

The Obama Administration promised Silicon Valley oligarchs the market monopoly on lithium ion batteries and the sabotage of fuel cells in exchange for campaign financing and search engine rigging; United States Senators that are supposed to protect us from these deadly products own the stock market assets of them so they protect them and stop the FDA, OSHA, DOT & NHTSA from outlawing them. WRITE YOUR ELECTED REPRESENTATIVE AND DEMAND THAT LITHIUM ION BATTERIES BE MADE ILLEGAL TO SELL! NiCAD and Hundreds of other battery chemistries DO NOT have all of these problems but Lithium Ion batteries get a monopoly because of politician insider trading ownerships. A recent fire on U.S. Highway 101 near Mountain View, CA, burned the driver alive and killed him. In Florida two kids died in a Tesla, burned alive, screaming in agony. A man died in agony in a Tesla crash in Malibu that set Malibu Canyon on fire. A young woman, at the start of life, and her boyfriend were burned alive in their crashed Tesla.

There are many more deaths and crashes than you have heard about. The deaths and the cover-ups are endless. Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or its suppliers and mining companies and they cover-up and halt investigations and laws designed to save the public. They, and their crony's, spend over \$1B a year to shill and troll hype about lithium ion batteries and cover-up the dangers. Lithium ion EVs are more prone to battery fires. Experts say that their lithium-ion batteries can fuel hotter fires that release toxic fumes and are more difficult to put out. Lithium ion fires keep reigniting which explains why it takes so long and requires copious amounts of water or foam (it is an electric fire, after all) to smother the flames. Tesla employee Bernard Tse and his team warned Elon Musk about these dangers in 2008 and they got fired and/or warned to "say nothing" by Musk. Three top Tesla engineers died in a plane crash next to Tesla offices in San Carlos after two of them agreed to become whistle-blowers.

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Pelosi to give him free taxpayer cash and government resources from the Dept. of Energy and the Calif treasury. DOE has been covering-up organized crime activities at DOE in which DOE funds are being used as a slush-fund to pay off DNC campaign financiers and to pay for CIA/GPS Fusion-Class attacks on Silicon Valley business competitors of those DNC campaign financiers who DOE staff share stock market holdings with. Elon Musk is a criminal, a mobster, an asshole, a bald fake-hair wearing, plastic surgery-addicted, douchebag, woman-abusing, sex addicted, tax evader. Musk exploits poor people and child slaves in the Congo and Afghanistan to mine his lithium and Cobalt.

Musk spends billions per year to hire Russian trolls, fake blogger fan-boys and buy fake news self-aggrandizement articles about himself. Musk thinks he is the 'Jesus' of Silicon Valley. Fake News manipulator Google is run by Larry Page and Larry is Musk's investor and bromance butt buddy. Musk uses massive numbers of shell companies and trust funds to self-deal, evade the law and hide his bribes and stock market insider trading. A huge number of Tesla drivers have been killed; pedestrians and oncoming drivers have also been killed, and Musk covers it up. The DNC and the MSM refuse to allow any articles about Musk's crimes to be printed because they benefit from Musk's crimes. Musk has been professionally diagnosed as a 'psychotic narcissist.' A 'Silicon Valley Mafia; cartel of frat boy sociopath venture capitalists like Steve Jurvetson, Tim Draper, Eric Schmidt, et al; threaten those who do not support the cult of Tesla or their political candidates.

In EVERY blog that you read that mentions 'Musk', at least 1/3 of the comments have been placed their by Musk's paid skills. Musk holds the record for getting sued for fraud by his investors, wives, former partners, employees, suppliers and co-founders. Elon Musk has gone out of his way to hire hundreds of ex-CIA staff and assign them to "dirty tricks teams" to attack his competitors and elected officials who Musk hates. Musk never founded his companies. Musk's "Starlink" satellites are domestic spy and political manipulation tools - never get your internet from one. Musk stole Tesla in a hostile ownership take-over from Marty the true inventor of the Tesla. The same kind of EMF radiation proven to cause cancer from cell phones exists in massive amounts in a Tesla.

Musk can't fix a car or build a rocket and has almost no mechanical skills. If you pull a report of every VIN# of every Tesla ever built and cross reference that with insurance, repair and lawsuit records you will find that the "per volume" fire, crash, death and defect rate is THE WORST of any car maker in history! Musk is a lying con artist and partners with Goldman Sachs to rig the stock market. Sachs has a dedicated team of 18 men who rig stocks and valuation bumps for Musk. Over 1000 witnesses can prove every one of those claims in any live televised Congressional hearing! Senators Dianne Feinstein, Harry Reid, Nancy Pelosi, Kamala Harris and their associates own the stock in Tesla Motors and/or it's suppliers and mining companies. That is why they criminally help cover-up investigations of Tesla! All of this was reported, in writing, to James Comey, Patricia Rich and David Johnson at the FBI.

The DNC bosses own the stock in lithium, Solar and EV markets and use kickbacks from those markets (Especially via convoluted campaign finance laundering via Elon Musk) to finance the DNC. The DNC bosses use character assassination as their main political tool against any member of the public who speaks out against their felony stock market scams and PizzaGate-like scandals. The Harvey Weinstein reports by Ronan Farrow show that they have teams of hired goons that they pay to destroy people's lives. They use Black Cube, Mossad, In-Q-Tel, Stratfor, Gawker Media, Gizmodo Media, Media Matters, David Brock, Sid Blumenthal, NY Times, Google servers, Facebook servers, Podesta Group, Perkins Coie, Covington & Burling and a host of "assassins".

It should be a felony to hire character assassins in the USA. DEMAND A LAW and DEMAND the termination of these attack services. IE: Gawker and Gizmodo Media sets-up the attack stories and, in paid partnership with Google, Google kicks their attack links around the globe, in front of 8 Billion people, forever. Google locks the attack articles of its enemies on the front top search results of Google search results forever, on purpose! That is why Google is being terminated in the largest, most well resourced

anti-corruption public service take-down in history!

MORE EVIDENCE:

<https://www.washingtonpost.com/graphics/business/batteries/congo-cobalt-mining-for-lithium-ion-battery/>

<http://www.mining.com/1-trillion-motherlode-of-lithium-and-gold-discovered-in-afghanistan/>

<https://www.dw.com/en/chiles-lithium-blessing-or-curse/a-43721539>

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<https://www.forbes.com/sites/jamesconca/2018/09/26/blood-batteries-cobalt-and-the-congo/>

<https://www.forbes.com/sites/greatspeculations/2018/02/27/the-worlds-cobalt-supply-is-in-jeopardy/>

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<http://www.tesla-motors-cronyism.com/index.php?post/GOOGLE-COVERS-ELON-MUSK-S-CORRUPT-ASS%21>

<https://globalnewstimes.wordpress.com/tag/frank-giustra-and-hillary-clinton/>

<http://archive.is/ox9pX>

<https://www.gold-eagle.com/article/hypocrisy-most-foul>

<https://www.washingtonpost.com/graphics/business/batteries/congo-cobalt-mining-for-lithium-ion-battery/>

<https://www.iisd.org/story/green-conflict-minerals/>

<https://www.amnesty.org/en/latest/news/2017/09/the-dark-side-of-electric-cars-exploitative-labor-practices/>

<https://www.aljazeera.com/news/2017/07/dr-congo-loses-750m-corruption-mismanagement-170721154134478.html>

<https://www.abc.net.au/news/2018-07-25/cobalt-child-labour-smartphone-batteries-congo/10031330>

<https://www.zerohedge.com/news/2019-02-24/tesla-slams-tree-florida-bursting-flames-and-killing-driver>

TOXIC LEGACY

Poisonous dust from 9/11 attack has given almost 10,000 New Yorkers cancer

The federal World Trade Center Health Program has counted 9,795 first responders and other New Yorkers with cancer deemed 9/11-related

By Susan Edelman for New York Post

NEARLY 10,000 people have suffered cancers linked to the toxic dust and smoke resulting from 9/11.

With the 17th anniversary of the September 11, 2001 terror attacks a month away, the federal World Trade Center Health Program has counted 9,795 first responders and other New Yorkers with cancer deemed 9/11-related.

REUTERS

[4](#) Almost 10,000 have developed cancer from 9/11 related smoke and dust

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In all, more than 1,700 responders and others affected have died, including 420 of those stricken with cancer, officials said.

“ 9/11 is still killing,” said John Feal, an advocate for WTC responders.

“ Sadly, this fragile community of heroes and survivors is shrinking by the day.”

The number of cancer patients has rapidly risen since the federal program started tracking the disease in 2013.

“ We get these referrals 15 to 20 times a week,” said Dr. Michael Crane, medical director of the WTC Health Program at Mount Sinai Hospital.

Cancers have various latency periods, typically emerging years after exposure to harmful substances.

AFP

[4](#) Many New York workers and civilians have been affected

Play Video Heroic first responders die and thousands battle
crippling illness after being poisoned by toxic fumes from
9/11 terror attacks

4 First responders who worked to clear debris have also been stricken

In addition, the average age of Ground Zero workers and others affected has risen from 38 to 55. Some are in their 70s.

Studies have confirmed that 9/11 rescue and recovery workers have significantly higher rates of thyroid cancer and skin melanoma, which is potentially fatal, than found in the general population, and face a higher risk of bladder cancer.

Non-responders have had significantly higher rates of breast cancer and non-Hodgkin's lymphoma.

Other cancers raising red flags include leukemia, Crane said.

When the first plane struck, NYPD Sgt Tom Wilson raced from the 90th Precinct in Williamsburg to man the Brooklyn Bridge as people fled Manhattan on foot.

In the coming months, Wilson worked 344 hours at Ground Zero, sometimes sleeping at the site, and at the Fresh Kills landfill, where workers sifted debris for remains.

[4](#) This year marks the 17th anniversary of the deadly attacks

Conspiracists believe this video proves that 9/11 was a controlled explosion

Play Video

Wilson soon developed gastrointestinal and sinus problems, but was struck with an aggressive tongue cancer in 2008.

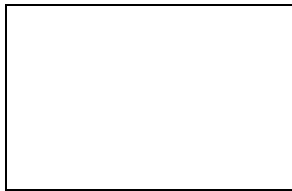
Memorial Sloan-Kettering doctors cut off a third of Wilson's tongue, replacing it with a skin graft from his wrist.

Now in frequent pain, he told The [New York Post](#), he will eventually need a reconstructed jaw, using a bone from his leg or shoulder.

But the father of five, who left the NYPD for the Suffolk County Police closer to home, is grateful to be alive - and has not lost his passion for public service.

Wilson said: "God forbid there's another 9/11, I want to be able to respond to that."

Debbie Morales, then a 23-year-old receptionist for the National Coffee Association, stepped out of the subway to mayhem as the Twin Towers burned. "There are things I saw I can never undo," she said, sobbing.



MOVING ON

Widower blasted by wife's family for finding love insists she'dOver the next few weeks, Morales spent hours at a time in her wrecked office, retrieving paperwork for colleagues. "I had dust all over me."

Eight years later, Morales suffered two seizures at work and was diagnosed with advanced brain cancer.

"I'm fearful about everything since 9/11. I was never like that before," she cried. "I feel that thing just took everything away."

A version of this story originally appeared on the [New York Post](#).

REUTERS/CARLO ALLEGRI Doubling a drone's battery life, quadruples the area it can cover.

THAT'S METAL

TRYING TO MAKE DEADLY LITHIUM ION BATTERIES LESS DEADLY

By [Akshat Rathi](#)

Lithium-ion batteries were first introduced to the public in a Sony camcorder in 1991. Then they revolutionized our lives. The versatile batteries now power everything from tiny medical implants and smartphones to forklifts and expensive electric cars. And yet, lithium-ion technology still isn't powerful enough to fully [displace gasoline-powered cars](#) or cheap enough to solve the [big energy-storage problem](#) of solar and wind power.

Dave Eaglesham, the CEO of Pellion Technologies, a Massachusetts-based startup, believes his company has made the leap beyond lithium-ion that will bring the battery industry to the next stage of technological disruption. He and his colleagues have accomplished something researchers have been struggling with for decades: they've built a reliable rechargeable lithium-metal battery.

Though other startups have for years made various claims about lithium-metal batteries, none yet have gotten past the development or testing phases; Pellion has already been selling their battery to at least one buyer since February.

Pellion's battery can pack nearly double the energy of a conventional lithium-ion battery, making it able to, for example, double the time a drone can spend in the air. That 100% increase in energy density is a step change compared to the annual 10% or so improvement the battery industry currently averages. If Pellion overcomes early limitations, its batteries have the potential to power a Tesla car for 800 km (500 miles) on a single charge, rather than today's upper limits of 400 km.

ð Quartz is running a series called *The Race to Zero Emissions* that explores the challenges and opportunities of energy-storage technologies. [Sign up here](#) to be the first to know when stories are published.

The story of a pivot

The lithium-ion battery is named for its use of charged atoms—also known as “ions”—of lithium. The ions shuttle between two electrodes (the anode and the cathode) as the battery is charged and discharged.

One of the limitations of this tech is that a lithium ion carries only a single positive charge. In theory, simply using magnesium ions—which carry two positive charges—would mean packing in a lot more energy in the battery. In 2011, Robert Doe, a postdoctoral student at MIT, and his then supervising professor Gerd Ceder, founded Pellion with the goal of building a magnesium-ion battery. Within two years, Pellion had a working prototype in the lab. But it had a lot of problems. Though the battery worked, it was no match for lithium-ion batteries on simple things like charging and discharging with consistency.

That's when Eaglesham joined as CEO. “We had the world's best magnesium battery, but I couldn't see how to turn it into a compelling product,” he says. However, Eaglesham noticed that in the process of building a working prototype, Pellion had solved one of the industry's long-standing challenges for rechargeable batteries: how to put a metal on the anode safely.

Energy-rich metals like lithium and magnesium tend to be highly reactive. And a complete battery, when packed with an energy-dense electrolyte, makes the system even more dangerous. Remember the [exploding Samsung Galaxy Note 7](#)?

That’s why typical lithium-ion batteries use anodes made of graphite, a form of carbon. But graphite anodes can only store one atom of lithium for every six atoms of carbon. Replace graphite with an anode made entirely of lithium atoms— aka a lithium-metal anode— and you’ve just saved a lot of space in your cell.

In a [study published](#) in January this year, Paul Albertus, a program director at the US Advanced Research Projects Agency— Energy (ARPA-E), used this graphic to show how dramatically more energy-dense a lithium-metal battery could be:

ALBERTUS ET AL/NATURE ENERGY

Eaglesham made the case to his new colleagues at Pellion that, if they’d found a way to use a metal anode safely, it would be better to pivot to lithium rather than struggle with magnesium. That way, they could take advantage of more than three decades of work done on lithium-ion technology to solve the little but important problems, such as charging consistency or voltage fluctuations, while still creating an energy-dense battery and moving the needle on innovation in the industry.

Trial by fire

Scientists have long understood that a lithium-metal anode would theoretically pack in more energy. In fact, the first lithium-ion cells that oil giant Exxon developed in the 1970s contained lithium-metal anodes. (Exxon was working on batteries then because it worried that [oil might run out](#) one day.) Single-use lithium-metal batteries were commercialized about the same time and they are used even today in specialized applications, such as deep-sea drilling.

Commercializing rechargeable lithium-metal batteries is a bigger challenge. In the 1980s, Moli Energy, a Canadian startup, was the first to succeed. But some of its batteries started catching fire, and the company had to issue a recall. The incident led to legal action and Moli Energy was forced to declare bankruptcy.

The use of lithium metal in rechargeable batteries creates three big problems. First, it reacts with everything: water, oxygen, and even nitrogen (all of which are present in the air around us), making it more likely to catch fire.

Second, lithium’s reactivity means it suffers side reactions with the battery’s liquid electrolyte, which is itself an energy-rich medium. These undesirable reactions reduce the amount of lithium available and worsen the battery’s life with every charge-discharge cycle.

Third, when a lithium-metal battery discharges, lithium ions separate from the surface of the anode and travel to the cathode. When the battery is charged the same ions travel back and deposit onto the anode as lithium metal. But instead of forming a nice smooth coating on the anode, lithium metal has the tendency to generate “dendrites,” chains of lithium atoms growing from the surface of the anode, which look like the roots of a tree. The dendrites grow bigger with each charge-discharge cycle, eventually reaching the cathode and causing the battery to short, leading to fires.

As the industry struggled through these problems in the late 1980s, Sony invented the graphite anode. Though less energy-dense, it suddenly made lithium batteries a lot safer and more reliable. Since then, graphite anodes have remained the mainstay of the industry.

Nearly 30 years later, however, we are brushing up against the limitations of the graphite anode. Next-generation applications such as cheap electric cars and [electric airplanes](#) will need batteries that carry the same amount of energy but weigh a lot less and take up a fraction of the space of today’s batteries. A slew

of companies are in a race to build the next revolutionary anode, and venture capitalists are pumping in hundreds of millions of dollars in the hope of making a winning bet.

PELLION TECHNOLOGIES A drone photo of Pellion's team outside their headquarters in Woburn, Massachusetts. Dave Eaglesham is standing in front.

The zero-lithium state

To counteract lithium's high reactivity, some battery developers have tried to install additional safety equipment to keep the lithium from coming into direct contact with water, oxygen, or nitrogen inside the battery. That inevitably increases the cost of manufacturing.

Some customers, such as commercial-drone users, are willing to pay premium prices. But Eaglesham believes it also means such battery makers don't have a business that can scale beyond niche markets.

Even if somehow the costs could be reined in, batteries with lithium metal inside are less likely to pass safety tests, according to Eaglesham. These tests are designed to put the battery in extreme, but real-life, conditions: piercing a nail into the battery (which might happen in a car accident) or heating it to more than 50°C, or 122°F (a temperature that the interiors of cars or drones can easily reach).

The industry is littered with examples of companies that tried to build a lithium-metal battery but failed. For example, Arizona-based Sion Power built a lithium-sulfur battery (where the anode is lithium metal and cathode is made of sulfur) and used it for [record-setting](#) unmanned autonomous vehicles flights. But it abandoned the technology before reaching commercial scale. (It is still trying to develop lithium-metal batteries, but this time with a different cathode.)

PELLION TECHNOLOGIES Pellion's battery packs being assembled.

That's why Pellion's battery doesn't start with lithium metal inside. Instead, the battery is manufactured in the exact same way as a conventional lithium-ion battery, including using a liquid electrolyte, a widely available cathode and an anode that begins its life as a copper sheet. That's crucial because it allows Pellion to use existing lithium-ion battery factories in Asia, where it's much cheaper to manufacture batteries.

In its discharged state, the Pellion battery has its lithium ions sitting snugly inside the cathode. The magic happens when the battery is charged for the first time, and the lithium ions travel from the cathode and deposit as a layer of lithium metal on the copper anode. The first charge is carried out in a state when the battery is completely sealed from the outside environment, and thus the newly formed layer of lithium metal is protected. This configuration is called "zero-lithium" or "lithium-free."

"It is quite an impressive feat," says Venkat Viswanathan, a battery expert at Carnegie Mellon University. Another expert (who asked not to be named due to press restrictions at their lab) called it the "holy grail" of the lithium-metal battery.

Market niche to market king

Pellion's battery does have limitations. It typically takes three hours to charge the battery fully, and it's not cheap. While experts Quartz spoke to about Pellion's battery were impressed by the achievement, many expressed concerns about the limited number of life cycles: it can only guarantee 50 charge-discharge

life cycles.

Thatâs much lower than the approximately 300 life cycles needed for a battery to go in a smartphone or the 1,000 life cycles required for electric cars. Eaglesham says the companyâs latest models in development can last much more than 50 charge-discharge lifecycles than the batteries it sells. But Viswanathan says that going from 50 life cycles to 500 is a much harder proposition than what Pellion has achieved so far. Steven Visco agrees. He is the CEO of PolyPlus, a California-based startup, and he thinks that using a liquid electrolyte, which Pellionâs battery does, fundamentally limits how many lifecycles a lithium-metal battery could achieve.

That said, âbattery startups struggle to find customers for their early products,â says Venkat Srinivasan, a lead battery researcher at Argonne National Laboratory. âSo itâs an achievement that Pellion is already shipping product.â Quartz reached out to 10 other startups working on lithium-metal batteries for comment, and got replies from six. Sion Power, PolyPlus, Solid Energy Systems, and Ion Storage Systems said they are in the validation phase, sending engineering prototypes to potential customers and third-party testers. QuantumScape and Blue Current declined to comment.

Delivery of a lithium-metal battery product is a âmajor breakthrough,â says Eaglesham. Pellionâs first customers are makers of commercial drones. (Quartz was shown documents confirming sales on the condition of keeping the buyerâs identity confidential.) The startup began selling its batteries in February this year, and it expects to have several million dollars in revenue by the end of the year.

âCurrent battery technology underserves the drone market,â says Eaglesham. âWeâve found that some users have such a hunger for longer flight times that the number of battery life cycles doesnât matter.â

The biggest prize for battery companies right now is the electric-car market. Bloomberg New Energy Finance expects that [10% of all cars](#) sold in 2025 will be electric. To meet that demand, the battery industry will have to quintuple in size and produce some \$60 billion worth of batteries annually.

Given the limitations, Eaglesham isnât thinking about electric cars just yet. But his batteryâs specifications make it a good candidate. For comparison, lithium-ion cells in electric cars like Tesla stand at 600 watt-hours per liter (Wh/l) and 220 watt-hours per kilogram (Wh/kg). Pellionâs figures are nearly double: 1,000 Wh/l and 400 Wh/kg. The promise of a leap in battery technology has allowed the startup to raise âtens of millionsâ of dollars, says Eaglesham, from the likes of Khosla Ventures and Motorola Solutions.

Beyond the hype

As a fast-growing industry with the potential of [creating billion-dollar companies](#), battery inventors are known to operate in secrecy. But that means, without proper third-party verification, itâs hard to separate the truth from hype. Thatâs why itâs not surprising so many promising battery startups have gone bust in the past decade alone.

In 2012, for example, Envia was among the first crown jewels of the then three-year-old US advanced energy program (ARPA-E). Envia promised a lithium-ion technology that would make a leap in energy density and thus slash the cost of electric cars. It even convinced General Motors to sign a deal and invest millions of dollars. At the time, the car giant desperately needed a new battery for the next-generation Chevy Volt that was due in 2016. But after raising nearly \$30 million and spending 10 years in operation, [Envia fell short](#) on delivering its magical battery and went out of business in 2017.

So Pellion's claims need to be taken with a grain of salt. The only independent academic who has seen Pellion's technology in action declined to comment for this story. Eaglesham says the company's customers have validated its technology, but he declined to put Quartz in touch with them, citing confidentiality agreements.

Other experts Quartz consulted back the credentials of Eaglesham and his team. Pellion's co-founders may have been first-time entrepreneurs; in Eaglesham, however, they have an experienced hand.

Eaglesham was previously the chief technology officer of First Solar, which proved itself a rare success in the cut-throat solar-photovoltaic-cell business. Co-founder Gerd Ceder now sits on Pellion's board of directors, and he says that Eaglesham has been successful at Pellion because he has a handle on both commercial and technical aspects.

"Commercializing batteries is an extremely hard problem. Most startups end up in bullshit land," Ceder says. "They are run by CEOs who are all about raising money and ratcheting up the stakes" before the crash. Pellion is different."

TUBE BLAST PANIC

Madrid tube train blast injures several passengers after lithium ion batteries explode sparking panic on underground

Passengers thought the exploding device was a bomb but terrorism has been ruled out

By Natalia Penza

[Play Video](#)

SEVERAL people have been injured following a blast on a Madrid tube train this morning.

The incident occurred when a commuter's computer tablet exploded and terrorism has been ruled out.



EMERGENCIES MADRID

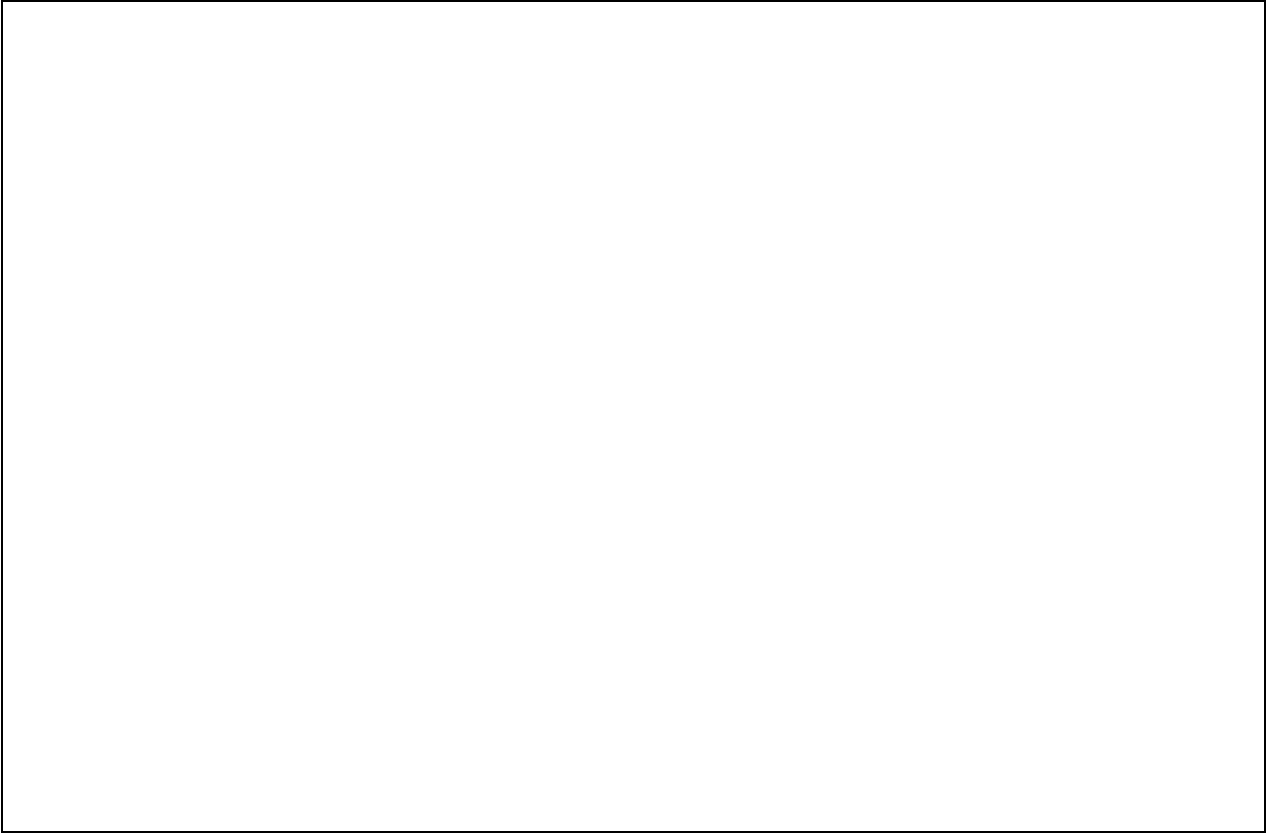
3 A total of six people are said to have suffered minor injuries in the blast

The blast occurred on a Line 9 train travelling towards Paco de Lucia at Principe de Vergara tube station in the Spanish capital.

At least six people have reportedly been hurt including the owner of the tablet and travellers sitting nearby.

The device is believed to belong to a woman who had it in her bag.

[Local reports](#) said the blast caused scenes of panic among commuters who mistook it for a terror attack.



GOOGLE

3 The explosion occurred near Madrid's Principe de Vergara tube stop.

Police and paramedics have been sent to the scene.

Large amounts of smoke was seen coming out of the carriage after the explosion.

Commuter Juan Teixeira tweeted: “ A tube was evacuated because a tablet exploded. Half an hour trapped inside.”

Gonzalo Casatejada, 33, told [El Pais](#): "People started running, they said there was a backpack with smoke.



TWITTER/JUAN TEIXEIRA

3 Video footage shows passengers leaving the Madrid station

"We opened the door manually, we had been standing for several minutes, but people got scared and everybody started to run.

"We were afraid that it would be an attack."

Passengers activated the emergency brake before leaving the train and walking along the track.

The train though was said to have stopped just 100 meters away from the platform.

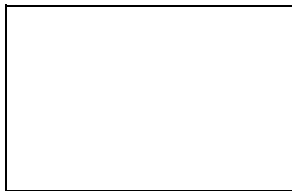
Underground services between Sainz de Baranda and Avenida de America had been suspended but have now been reopened.

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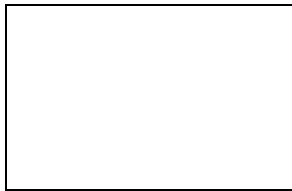
“ THE RIGHT TIME”

Maddie McCann's dad to reveal “ painful” struggle 11 yrs after she vanished



HOLIDAY ATTACK

Brit man held by Turkish cops after woman was battered for turning down sex



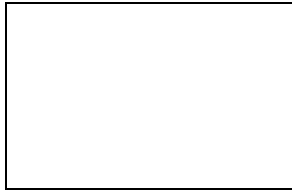
'COMMERCIAL TERRORIST'

Fruit sabotage spreads with needle in banana as Oz cops hunt culprit



EGYPT RIDDLE

Mystery as E.coli may NOT have killed Egypt hotel couple, says UK post-mortem



TV TRAGEDY

Horrifying moment woman DIES during live TV broadcast



“ HONOUR KILLING”

Man butchered in front of pregnant wife for being 'from lower caste'

Ambulances and members of the national and local police are at the scene.

A spokeswoman for Emergencies Madrid said staff were helping 17 passengers deal with shock.

A similar incident happened in July when passengers on a Ryanair jet to Ibiza were panicked after a [mobile phone battery caught fire](#) as the plane was about to take off.

Holidaymakers were led off the plane at Barcelona's El Prat airport after the inflatable slide was activated.

Tesla says their autopilot and lithium ion batteries killed driver

by [Kevin Forestieri](#) / Mountain View Voice

The driver of a Tesla Model X had turned on the vehicle's Autopilot function moments before the crash. Image courtesy of the Mountain View Fire Department.

The driver who died in a fiery crash on Highway 101 last week had his Tesla's Autopilot engaged before the crash, according to a statement released by the company Friday night.

San Mateo resident Wei Huang, 38, crashed into a highway barrier separating southbound Highway 101 from the Highway 85 carpool flyover lane shortly before 9:30 a.m. on Friday, March 23. The Tesla struck the median at freeway speeds, triggering a three-vehicle accident and causing the car to catch fire. Huang was transported to Stanford Hospital with major injuries, where he later died.

Tesla retrieved the vehicle logs from Huang's vehicle, a Model X, and determined that the Autopilot system was engaged at 9:27 a.m., moments before the collision with the "adaptive cruise control follow-distance set to a minimum," according to a blog post from the company.

As Huang approached the barrier, he had received "several visual" warnings and an audible warning to take control of the vehicle again, according to the post. But data from the vehicle shows that the driver's hands "were not detected on the wheel for six seconds prior to the collision."

"The driver had about five seconds and 150 meters of unobstructed view of the concrete divider with the crushed crash attenuator, but the vehicle logs show that no action was taken," according to the statement.

Earlier this week, ABC7 News [reported](#) that Huang's family said Huang had frequent trouble with the Autopilot system on the Model X, and took it to his dealer on multiple occasions claiming that the Autopilot veered towards the same Highway 101 barrier that his vehicle collided with on March 23.

Tesla officials argued in the blog post that while the company's Autopilot system doesn't prevent all accidents, it has maintained a strong safety track record since its rollout over a year ago. The blog post claims that there is only one fatality for every 320 million miles traveled by vehicles with the function -- significantly lower than the average in the U.S. of one death per 86 million miles traveled.

"Tesla Autopilot does not prevent all accidents -- such a standard would be impossible -- but it makes them much less likely to occur," according to the blog post. "It unequivocally makes the world safer for the vehicle occupants, pedestrians and cyclists."

The National Transportation Safety Board announced on Tuesday, March 27, that it was stepping in to [investigate the crash](#) as well as the subsequent emergency response. Battery fires in electric vehicles can reach temperatures of 900 degrees and require thousands of gallons of water to extinguish, but fire crews had little access to a water supply in the middle of the highway.

Tesla engineers came out to the scene of the crash to assist the Mountain View Fire Department in getting the battery under control.

In an initial blog post about the accident on March 27, Tesla officials stated that the attenuator barrier, a buffer designed to cushion a collision with the cement median of the Highway 85 flyover, had either been "removed or crushed" without an adequate replacement, which added to the severity of the crash.

"We have never seen this level of damage to a Model X in any other crash," according to the post.

Tesla says their autopilot and lithium ion batteries killed driver

by [Kevin Forestieri](#) / Mountain View Voice

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Tesla retrieved the vehicle logs from Huang's vehicle, a Model X, and determined that the Autopilot system was engaged at 9:27 a.m., moments before the collision with the "adaptive cruise control follow-distance set to a minimum," according to a blog post from the company.

As Huang approached the barrier, he had received "several visual" warnings and an audible warning to take control of the vehicle again, according to the post. But data from the vehicle shows that the driver's hands "were not detected on the wheel for six seconds prior to the collision."

"The driver had about five seconds and 150 meters of unobstructed view of the concrete divider with the crushed crash attenuator, but the vehicle logs show that no action was taken," according to the statement.

Earlier this week, ABC7 News [reported](#) that Huang's family said Huang had frequent trouble with the Autopilot system on the Model X, and took it to his dealer on multiple occasions claiming that the Autopilot veered towards the same Highway 101 barrier that his vehicle collided with on March 23.

Tesla officials argued in the blog post that while the company's Autopilot system doesn't prevent all accidents, it has maintained a strong safety track record since its rollout over a year ago. The blog post claims that there is only one fatality for every 320 million miles traveled by vehicles with the function -- significantly lower than the average in the U.S. of one death per 86 million miles traveled.

"Tesla Autopilot does not prevent all accidents -- such a standard would be impossible -- but it makes them much less likely to occur," according to the blog post. "It unequivocally makes the world safer for the vehicle occupants, pedestrians and cyclists."

The National Transportation Safety Board announced on Tuesday, March 27, that it was stepping in to [investigate the crash](#) as well as the subsequent emergency response. Battery fires in electric vehicles can reach temperatures of 900 degrees and require thousands of gallons of water to extinguish, but fire crews had little access to a water supply in the middle of the highway.

Tesla engineers came out to the scene of the crash to assist the Mountain View Fire Department in getting the battery under control.

In an initial blog post about the accident on March 27, Tesla officials stated that the attenuator barrier, a buffer designed to cushion a collision with the cement median of the Highway 85 flyover, had either been "removed or crushed" without an adequate replacement, which added to the severity of the crash.

"We have never seen this level of damage to a Model X in any other crash," according to the post.

Tesla says their autopilot and lithium ion batteries killed driver

by [Kevin Forestieri](#) / Mountain View Voice

The driver of a Tesla Model X had turned on the vehicle's Autopilot function moments before the crash. Image courtesy of the Mountain View Fire Department.

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While CIA documents 30 years on will certainly prove otherwise, there is much evidence as of now to suggest that Musk or other U.S. clean energy titans were actually involved in the plot to overthrow Morales's government. For one, political scientist and Resource Radicals author Thea Riofrancos explains, lithium isn't scarce, and supplies of it weren't being cut off from foreign investors. "Although Morales was pushed out in a coup, it wasn't because of lithium. There was no real obstacle facing capital investment in Bolivia, and Morales had never been opposed to that," she told me. Arce's platform on lithium is broadly similar to Morales's, including the creation of some 130,000 jobs, with an openness to working with foreign companies. But the fact that people are talking about a "lithium coup" at all could preview a new era of extractive geopolitics.

Given its history of dealing with resource wealth abroad, it's not irrational to think the United States might leverage its foreign intelligence apparatus to corner the lithium market. The modern fossil fuel economy was built in no small part on imperial might, including that of the U.S., which backed myriad challenges to governments that tried to nationalize their resources both in Latin America and around the world. CIA meddling in foreign governments has been one of the many forms of invaluable state support offered to extractive industries, including tax breaks and cheap leases. There are plenty of ways in which minerals needed for clean energy development could be bound up in the same sort of rank extractive politics that have defined the fossil fuel economy, and in some ways already are; it's why groups like Amnesty International

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Trump hopes to get an edge over China on critical minerals. And while he hasn’t said much about lithium yet, Joe Biden’s “Build Back Better” plan features a prodigious expansion of “American Made” electric vehicle production that would entail massively scaling up U.S. consumption of technology metals. Democrats have also put forward proposals to increase mineral recycling, which could greatly dampen clean energy’s extractive footprint. Developing U.S. lithium and minerals recycling and extractive capacity could be good, as long as it doesn’t come at the cost of international collaboration. “Trying to do it all yourself,” Riofrancos said, “isn’t actually efficient to get the technology scaled, and creates a lot of parallel tracks of countries trying to develop the same resources.”

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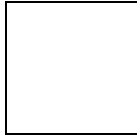
The U.S. Spent a Half Billion on Mining in Afghanistan With â€œ Limited Progressâ€œ

The Special Inspector General for Afghanistan Reconstruction has labelled yet another project in danger of failing. This time its U.S. plans to develop the countryâ€™s oil, gas and minerals industries.

by [Megan McCloskey](#)

ProPublica, Jan. 14, 2016, 12:49 p.m.

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G.I. Dough

ProPublica is investigating how billions of U.S. tax dollars have been spent on questionable or failed projects and how those responsible for this waste are rarely held accountable.

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- [Watchdog Accuses Pentagon of Evading Questions on \\$800 Million Afghanistan Program](#)



The United States has spent nearly half a billion dollars and five years developing Afghanistanâs oil, gas and minerals industries â and has little to show for it, a government watchdog reported today.

The projectâs failings are the result of poorly planned programs, inadequate infrastructure and a challenging partnership with the Afghan government, the Special Inspector General for Afghanistan Reconstruction [wrote](#) in its newest damning assessment of U.S. efforts in the war-torn country. The finding comes after some 200 SIGAR reports have detailed inefficient, unsuccessful or downright wasteful reconstruction projects. A recent ProPublica analysis of the reports found that there has been at least [\\$17 billion in questionable spending](#).

We Blew \$17 Billion in Afghanistan. How Would You Have Spent It?

Hereâ€s just what the Special Inspector General for Afghanistan Reconstruction found. See for yourself how that money could have been used at home. [Explore the app.](#)



The United States Agency for International Development and a Pentagon task force were in charge of developing a so-called “extractive” industry in Afghanistan — basically a system for getting precious resources out of the ground and to the commercial market. SIGAR [called out both](#) USAID and the Defense Department last year for their failures to coordinate and to ascertain the ability of Afghans to sustain the project, which unsurprisingly is not promising. In fact, when international aid stopped supporting the Afghan office responsible for oversight of the petroleum and natural gas industries, two-thirds of the staff were fired.

Exploiting these resources, which are estimated to be worth as much as \$1 trillion, is pivotal to Afghanistan’s economic future. SIGAR noted that the Afghan government has shown progress under USAID’s tutelage in regulating and developing the commercial export of the resources. But the report said the project was still hampered by corruption, structural problems and a lack of infrastructure for the mining industry, such as reliable roads. Many of the mines operate illegally, with some profit going to the insurgency, SIGAR said.

When it came to individual extractive projects, there was little progress made, the IG found.

The controversial Pentagon task force in charge of much of the effort, the Task Force for Business Stability Operations, spent \$215 million on 11 extractive programs, but “ after operating in Afghanistan for 5 years, TFBSO left with nearly all of its extractive projects incomplete,” SIGAR found. Three of the programs technically met objectives, but one of those is of questionable value at best. The task force built [a gas station for an outrageously inflated cost](#) and in the end it didn’t have any customers. So while the objective to create the station was achieved, SIGAR doubted it was a worthwhile venture.

The task force, made up of mostly civilian business experts and designed to develop the Afghan economy, has come [under fire from SIGAR and Congress](#) for demanding unusual and [expensive accommodations](#) in the country, allegedly punishing a whistleblower, and lacking overall accountability. The Senate is holding a hearing on the task force next week.

In today’s report, SIGAR highlighted that the task force spent \$46.5 million to try to convince companies to agree to develop the resources, but not one ended up signing a contract. About \$122 million worth of task force programs had mixed results, SIGAR said.

The Defense Department declined SIGAR’s request to comment on its findings. In its response, USAID said it has helped Afghanistan “ enact investor-friendly extractive legislation, improve the ability to market, negotiate and regulate contracts, and generate geological data to identify areas of interest to attract investors.” Any conclusions and criticisms, USAID told SIGAR, “ need to be substantially tempered by the reality that mining is a long-term endeavor.”



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Megan McCloskey

Megan McCloskey covers the military for ProPublica. Previously she was the national correspondent at Stars and Stripes.

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Bolivia's tumultuous past year also features a powdery white subplot with worldwide implications. Not long after being forced out of the country, Morales and many of his supporters argued that he was ousted in part as a response to his attempts to nationalize the country's lithium—a mineral used in batteries that power various clean energy technologies, including electric cars. "My crime, my sin, is to be an Indian," he told American journalist Glenn Greenwald in an interview, "and to have nationalized our natural resources, removed the transnational corporations from the hydrocarbon sector and mining." Morales had hoped that state-owned Yacimientos de Litio Boliviano, or YLB, would be able not just to mine lithium but refine it into lithium hydroxide and other compounds used in battery manufacturing. Tesla executive Elon Musk—whose renewables empire sources lithium mostly from Australia, not Bolivia—added to theories about a potential lithium coup this summer by tweeting, "We will coup whoever we want! Deal with it."

While CIA documents 30 years on will certainly prove otherwise, there is much evidence as of now to suggest that Musk or other U.S. clean energy titans were actually involved in the plot to overthrow Morales's government. For one, political scientist and Resource Radicals author Thea Riofrancos explains, lithium isn't scarce, and supplies of it weren't being cut off from foreign investors. "Although Morales was pushed out in a coup, it wasn't because of lithium. There was no real obstacle facing capital investment in Bolivia, and Morales had never been opposed to that," she told me. Arce's platform on lithium is broadly similar to Morales's, including the creation of some 130,000 jobs, with an openness to working with foreign companies. But the fact that people are talking about a "lithium coup" at all could preview a new era of extractive geopolitics.

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US Needs 10X More Rare Earth Metals To Hit Electric Vehicle Goals And China Controls It All - So We Need To Move To Hydrogen Cars

[John Koetsier - Forbes](#)

John Koetsier is a journalist, analyst, author, and speaker.

The United States needs ten times the amount of rare earth metals it currently has to meet President Biden's ambitious 2030 EV goals, according to one CEO in the business. And it needs 20 to 25 times more to meet the burgeoning needs of the green economy and the military as we increase investment in wind power, electric vehicles, and even cell phones to the year 2050.

President Biden has outlined a [goal](#) that 50% of cars sold in 2030 will be zero-emission electric vehicles.

But there's a problem.

To meet even part of that goal with domestic supply of rare earths seems almost impossible. And foreign sources are increasingly problematic.

Detail of copper winding, stack and shaft of a electric permeant magnet motor for home appliances. ... [+]

getty

“ You’ve got two light rare earths: neodymium and praseodymium and you’ve got two heavies, which is dysprosium and terbium,” USA Rare Earth CEO Pini Althaus [told me recently on the TechFirst podcast](#). “ And they are used in EV drivetrains ... cell phones ... the F-35 striker jet has about a ton of rare earth magnets ... wind turbines have a significant amount.”

In other words, it’s not just the green economy at stake.

It’s a big chunk of the entire economy ... and national security.

There’s been essentially one magnet plant in the United States, Althaus says, located in North Carolina. It has production capacity of about 2,400 tons of permanent magnets each year, which was about 20% of the needed supply as of 2019. (Note: accelerating to a green economy would require an even greater supply.) USA Rare Earths [bought](#) that plant in April, 2020, and plans to have it “ fully operational by the second half of 2022.”

USA Rare Earths is also developing a new mine in Hudspeth County, Texas, called the Round Top Heavy Rare Earth, Lithium, and Critical Minerals Project.

The mine isn't yet in production, but the company has received \$50 million in series C funding to kick off mining. It's currently scheduled to come online in 2023 for not just rare earths but also lithium, gallium, hafnium, zirconium, and other key resources for electronics, magnets, and batteries.

An open pit mine (not Round Top).

Getty Images

Theoretically, Round Top will produce no less than 15 of the 17 different rare earth elements.

But even if the Texas mine exceeds all predictions, it won't be enough.

"If you look at the materials that we have for permanent magnets or for lithium, it still accounts for sort of a percentage of the overall supply chain requirements in the United States," Althaus says. "We would

need another four or five Round Tops to go up to start looking at having sort of what we would call independence or a lack of complete reliance on China.”

At the moment, no rare earths for magnets are being produced and processed in the United States.

In an era of heightened tensions and economic competition, that’s a national security and wellbeing issue even if it doesn’t become a military issue.

What the lack of domestic production means right now is dependence on China, plus friendly countries like Canada and Australia. To Althaus, that’s dangerous.

“ There has been talk about a reliance on Canada and Australia, and this is a very foolhardy way to approach this for a couple of reasons,” he says. “ One, Australian and Canadian project owners, they’re not required to sell into the U.S. supply chain. They don’t have CFIUS regulations. They could sell to anyone – they can sell the materials to China. In fact, some Australian companies have offtake agreements with China in place already, which means those materials will not come into the U.S.”

None of this is unknown to the U.S. government.

In 2020 the Senate Republican Policy Committee released a [policy paper](#) stating that while the U.S. was the world leader in rare earths production from the 1960s to the 1980s, it essentially flatlined to the point that in 2016, the U.S. imported all of the rare earths it needed.

There are a few domestic attempts to kickstart local production at an old rare earths mine in Mountain Pass, California. That’s worked, to a degree, but all raw material still needs to be shipped to China for processing before being returned to be inserted into production lines.

Or, more likely, built into products in China.

In August, lawmakers [introduced](#) a bipartisan bill to boost domestic rare earths production.

And as of September of 2021, the U.S. Department of Commerce has [announced](#) an investigation to determine the effects on U.S. national security. A report is due to President Biden by June 18, 2022, though ideally it will be much sooner.

“ The Department of Commerce is committed to securing our supply chains to protect our national security, economic security, and technological leadership,” U.S. Secretary of Commerce Gina M. Raimondo said in a statement. “ Consistent with President Biden’s directive to strengthen our supply chains and encourage investments to shore up our domestic production, the Department initiated a Section 232 investigation on imports of NdFeB permanent magnets to determine whether U.S. reliance on imports for this critical product is a threat to our national security.”

Wild guess here: the answer is yes.

Unfortunately, U.S. companies looking to assist don’t have the government help and coordination that some other countries enjoy. They will essentially do consortium buys for all local industrial needs, aggregating demand and getting better access to supply like a giant national Costco bulk purchase.

“ U.S. government doesn’t have an apparatus similar to that of China or even Japan, where they’re buying materials or entering into agreements on behalf of whether it’s the automotive sector, consumer electronics companies,” says Althaus. “ They’re not going to be buying materials for a GM or Ford or anyone else ... Japan has taken a very important and robust approach to this, which is working ... to fund

companies like Lynas, secure the offtake for their materials, and then theyâ€”re bringing those materials, whether itâ€”s for defense, whether itâ€”s for consumer electronics, other sectors ... theyâ€”re working on behalf of the overall economy that will require these materials.â€”

The U.S. doesnâ€”t necessarily need to cover 100% of its own needs for rare earth metals, Althaus says, even if that might be nice.

Even 50-60% would help ensure that the global supply is not weaponized by China â€” which did [cut off supply](#) to Japan for 40 days in 2010 in an international spat over territorial waters.

Today, even China is a net importer of rare earths: part of the reason for the country's expansive Belt and Road initiative.

Solving this, however, wonâ€”t be easy.

â€” Rare earth deposits, they donâ€”t just get turned on by the flick of a switch,â€” Althaus told me. â€” They evolve, sometimes a decade or two of drilling, having the right economics, being able to develop those projects.â€”

â€” So a lot needs to get done for us to have any sort of independence from China if weâ€”re going to get to the goals that weâ€”re trying to achieve.â€”

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[Sen. Rand Paul's Office: Up to HALF of the estimated \\$126 BILLION in U.S. taxpayer funds devoted to nation-building efforts in Afghanistan 'Misspent or Disappears Entirely'\(breitbart.com\)](#)

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Uranium One noose is tightening

By [Thomas Lifson](#)

Now that the FBI's informant on the Uranium One deal has been outed and the nondisclosure agreement formerly muzzling him abrogated, it is possible to see the outlines of the devastating case to be made against not just Hillary Clinton, but the entire Obama administration. Two intrepid reporters, John Solomon of The Hill and Sara Carter of Circa News and Sinclair Broadcasting, are gaining access to some of the reported 50,000 documents in the possession of William Campbell, the whistleblower who went to the FBI with the scary details of what appeared to him to be an illegal attempt by Russian entities to take over the world uranium market, including even the uranium resources in our ground.

Reporting in [The Hill](#), Solomon calls our attention to what could be a key to understanding the magnitude of the scandal:

Campbell, who was paid \$50,000 a month to consult for the firm, was solicited by Rosatom colleagues to help overcome political opposition to the Uranium One purchase while collecting FBI evidence that the sale was part of a larger effort by Moscow to make the U.S. more dependent on Russian uranium, contemporaneous emails and memos show.

"The attached article is of interest as I believe it highlights the ongoing resolve in Russia to gradually and systematically acquire and control global energy resources," Rod Fisk, an American contractor working for the Russians, wrote in a [June 24, 2010 email to Campbell](#).

The Russian plot to "control global energy resources" was reported by Campbell to the FBI a year prior to approval of the acquisition. There is every reason to expect that the proof would be available to congressional investigators or (cough) a special counsel or U.S. attorney that this information was passed up the chain to A.G. Eric Holder and even President Obama. Yet CFIUS the group of agency heads that must approve such transactions on which Holder and Hillary sat went ahead and approved this sale that the U.S. *knew* was part of a Russian plot to control the world uranium and energy markets.

Justice Department officials confirmed the emails and documents gathered by Campbell, saying they were in the possession of the FBI, the department's national security division, and its criminal division at various times over the last decade. They added that Campbell's work was valuable enough that the FBI paid him nearly \$200,000, mostly for reimbursements over six years, but that the money also included a check for more than \$51,000 in compensation after the final convictions were secured.

The information he gathered on Uranium One was more significant to the counterintelligence aspect of the case that started in 2008 than the eventual criminal prosecutions that began in 2013, they added.

Solomon and Carter were interviewed last night on *Hannity*, along with Sullivan's lawyer, Victoria Toensing, and under questioning, they let us know that the money trail from Russia all the way to American political figures via cutouts will be exposed by documented evidence.

Now, contemplate the magnitude of a scandal that could demonstrate foreign money leading to the approval of a sale that harms national security and aids a hostile power (about whose danger the Democrats have been hyperventilating for the past year). Here is a poor-quality bootleg video of the segment, which may or may not last on YouTube. If a better copy becomes available, we will post that.

But only if the Sessions Justice Department is willing to press the case, or is forced to approve a special counsel:

The memos, reviewed by The Hill, conflict with statements made by Justice Department officials in recent days that informant William Campbell's prior work won't shed much light on the U.S. government's controversial decision in 2010 to approve Russia's purchase of the Uranium One mining company and its substantial U.S. assets.

Campbell documented for his FBI handlers the first illegal activity by Russians nuclear industry officials in fall 2009, nearly a entire year before the Russian state-owned Rosatom nuclear firm won Obama administration approval for the Uranium One deal, the memos show.

This official reticence, whatever its origin, will be overcome as Sullivan's cache of 50,000 documents leaks out bit by bit. Attorney Toensing knows exactly what she is doing here and how outside pressure can affect the grinding of the gears of justice.

Virgin Atlantic London flight makes emergency landing after lithium ion phone charger fire

An overnight Virgin Atlantic flight from New York to London flight was forced into making an emergency landing in Boston at 9pm Credit: Justin Sullivan/Getty Images North America

- [Yohannes Lowe](#)

An overnight Virgin Atlantic flight from New York to London was forced into making an emergency landing after a phone charger triggered a fire on-board.

All 217 Passengers had to abandon the Airbus A330 when firefighters were called to the plane at 9pm last night in Boston.

Smoke appeared in the cabin only 25 minutes into [its journey to Heathrow from JFK airport](#), information from Flightaware showed.

Massachusetts state police bomb disposal officers examined the aircraft after it landed and found a device between the cushions of a seat which had ignited.

The police believe a mobile phone power bank may have caused the fire.

“ Preliminary investigation suggests it is a battery pack consistent in appearance with an external phone charger” , a police spokesman told reporters after the incident.

All of the passengers and crew members were brought to safety, though one refused treatment for a 'smoke-related complaint'.

Smoke appeared in the cabin only 25 minutes into its journey to Heathrow from JFK airport Credit: Kirsty Wigglesworth/AP

One passenger, Cory Tanner, said: “ Everyone could smell the smoke but was not told what the problem was until we landed. Once we landed all we were told was, there is a fire in first class.

Having to sit here in a smokey cabin while we wait for firefighters to board and check things out isn't great... Shouldn't the priority be to get everyone off the plane first?”

Virgin Atlantic said it was “ investigating” what led to the smoke appearing in the cabin.

“ The safety and security of our customers and crew is always our top priority and we are currently investigating to fully understand the circumstances,” a company spokeswoman said.

An American Airlines flight also made an emergency landing at the airport earlier on Thursday after a cockpit light indicated an unspecified mechanical problem as it approached Boston.

WHY DID TESLA PICK SUCH DANGEROUS BATTERIES?

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- HOME
 - ◆ 60 MINUTES: CLEANTECH CRASH
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 - ◆ CLEANTECH FELONY STOCK SCAM
 - ◆ THE SILICON CRIME SPREE
 - ◆ THE DEATHS
 - ◆ THE COVER UP
- BREAKING NEWS
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 - ◆ HOW GOOGLE & IT'S INVESTOR'S CONTROLLED WHITE HOUSE DECISIONS
 - ◆ THE NAMES: WHO'S WHO?
 - ◆ WHY IS GOOGLE INVOLVED IN THE AFGHAN WAR AND ELECTRIC CARS!???
- THE ATTACKS
 - ◆ "HIT SQUADS" : GOOGLE, IN-Q-TEL, NEW AMERICA FOUNDATION, GAWKER
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 - ◆ HOT NEWS STORIES
 - ◆ CONTACT CONGRESS AND RESEARCH
 - ◆ MEDIA COVERAGE, #1
 - ◆ THE END OF THE COVER-UPS!
 - ◆ FAQ
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 - ◆ MORE TESLA MOTORS CORRUPTION CHARGES
 - ◆ THE CARS PART 1
 - ◆ THE CARS PART 2
 - ◆ THE CARS PART 3
 - ◆ THE SILICON VALLEY SOCIOPATHS
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- CARTEL DOCUMENTS
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The Afghan Lithium & Mining Stock Scam

- HOW YOU LOST SIX TRILLION DOLLARS WHEN YOU WEREN'T LOOKING
- OVER 500 INDEPENDENT FEDERAL, UNIVERSITY AND AGENCY STUDIES CONFIRM THE LOSS AND THE AMOUNTS
- NOW BILLIONS OF DOLLARS TOTALLY "UNACCOUNTED FOR AND UNTRACEABLE" ACCORDING TO GAO
- DIRECT TRACKING OF SOME OF THE MONEY FOUND LINKED BACK TO GOLDMAN SACHS AND SILICON VALLEY BILLIONAIRES
- WAS THERE A TRILLION DOLLAR EMBEZZLEMENT THAT TOOK PLACE WITH YOUR TAX DOLLARS?
- [Study: Iraq, Afghan war costs to top \\$4 trillion - The](#) The U.S. wars in **Afghanistan** and Iraq will **cost** taxpayers \$4 trillion to \$6 trillion, taking into account the medical care of wounded veterans and expensive repairs to a force depleted by more than a decade of fighting, according to a new study by a Harvard researcher. washingtonpost.com/world/national-security/study-iraq-afghan...

How a Russian "Treasure Map" led to trillions in embezzlement efforts. Click the links below to read the many thousands of news stories about this crime. The minerals used for Solyndra, Fisker, Abound, Tesla and the other DOE companies under investigation came from Afghanistan:

FROM NDGC:

"The Afghan 'Treasure Map': A tale of mind-boggling corruption! - From goat farm to the White House, corruption marked the path. Was Department of Energy ATVM Loan Program just a scam to payback campaign backers? It has cost some of the most powerful people in Washington their jobs, yet may be based on a made-up 'treasure map.'"

According to one version of the story, The CIA found this Russian "treasure map" that said there were "trillions of dollars" of lithium in Afghanistan. Some claim the map was concocted by some Russian business men as a scam to sell some mining equipment that was sitting around.

A few CIA agents were sent into Afghanistan to check this out and, indeed, found Lithium in a few spots but nobody ever surveyed to see how much, if any, beyond the few tests sites, there really was.

So this tale of the "Trillions of dollars of lithium" made its way to the hype-squad at Goldman Sachs and, via them, to the Silicon Valley VC's like John Doerr, Tim Draper and others..

Arnold Scharzenegger knew the "Russian Boys", from his movies there, and hauled a big chunk of Silicon Valley to Russia to pitch them. He was thinking it could be a GOP deal

Sachs and the Silicon Valley VC's said: "Hey, let's take over Afghanistan AND monopolistic-ally control the Lithium Battery and Electric Car industries and we will be golden!"

Then the Chicago political mob headed by Rahm Emanuel, Ed Daly, Robert Gibbs, David Axelrod, etc. said: "We will open the routes to you guys, exclusively!, if you fund Obama's campaign." They turned it into a DNC scheme.

Sachs and Silicon Valley said: "OK". Then Reid and Feinstein wanted their piece of the action. Then the Russians wanted their piece.

By then the whole thing had gotten so corrupt, mob-like and crooked that it Tsunami'd into Solyndra, Fisker, Abound, the Steven Chu and 80% of the White House staff resignations and a bunch of criminal investigations into political and stock market manipulation. Now The U.S. Congress has found that Goldman Sachs does, indeed, manipulate mining commodities and bribe politicians. More investigation reports are expected to be revealed in 2015...

Some say the GOP figured out that the magical Afghan Lithium Fields were a scam and that lithium dangerously self-ignites, so they foisted the map off on the DNC financiers, thus playing the DNC and Silicon Valley like fools, in the biggest practical joke in history.

As of today the Afghan war has cost the U.S. over one and a half TRILLION dollars and, according to sociologists and economists, yielded no known benefits. The lithium, the gas pipelines and global goodwill goals have all turned out to be false hopes. Yale University calculates that 80% of the cash sent to Afghanistan disappeared in corruption.

So that does, indeed, seem to be what happened."

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' + " + "; setTimeout(function() { var videoIframe656092892413355780Actual =  
document.getElementById("video-iframe-656092892413355780").contentDocument;  
videoIframe656092892413355780Actual.open().write(videoIframe656092892413355780Content);  
videoIframe656092892413355780Actual.close(); }, 500);
```

There are many thousands of additional news broadcasts that the U.S. Congress, and the people, should examine...

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See what happened to reporters and taxpaying members of the public who tried to report the crimes in the XYZ case at: **<http://www.paybackpolitics.org>**

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Banks face scrutiny over pricing of precious metals: WSJ
Tue Feb 24, 2015

(Reuters) - The U.S. Department of Justice (DoJ) and the Commodity Futures Trading Commission are investigating at least 10 major banks for possible rigging of precious-metals markets, the Wall Street Journal reported, citing people close to the inquiries.

DoJ prosecutors are scrutinizing the price-setting process for gold, silver, platinum and palladium in London, while the CFTC has opened a civil investigation, the newspaper said.

The banks are HSBC Holdings Plc, Bank of Nova Scotia, Barclays Plc, Credit Suisse Group AG, Deutsche Bank AG, Goldman Sachs Group Inc, JPMorgan Chase & Co, Societe Generale, Standard Bank Group Ltd and UBS Group AG, the Journal said.

Standard Bank spokesman Erik Larsen declined to comment on the report. The other banks, the DoJ and CFTC did not immediately respond to requests for comment. The CFTC issued a subpoena to HSBC Bank USA in January seeking documents related to the bank's precious metals trading operations, HSBC said on Monday.

The DoJ also issued a request to HSBC Holdings in November seeking documents related to a criminal antitrust investigation it is conducting in relation to precious metals, HSBC said.

Precious metal benchmarks have come under increased regulatory scrutiny since a scandal broke in 2012 over manipulation of Libor interest rates.

HSBC was one of several banks named in lawsuits filed in U.S. courts last year alleging a conspiracy to manipulate gold, silver, platinum and palladium prices, as well as precious metals derivatives, during the daily precious metals fixes. The century-old gold fix is a standard price for the metal that banks set twice a day over the phone. Some gold traders claim they were harmed by a scheme to manipulate the fix.

The banks operating the precious metals benchmarks, known as the fixes, said last year they would no longer administer that process. An electronic daily silver price benchmark is now administered by Thomson Reuters and CME Group, while the London Metal Exchange provides twice-daily benchmark platinum and palladium prices.

ICE Benchmark Administration will run an electronic gold price benchmark from March 20 to replace the London gold fix. Switzerland's financial watchdog said in November it had found a "clear attempt" to manipulate precious metals price benchmarks.

(Reporting by Supriya Kurane in Bengaluru; Editing by Anupama Dwivedi and [Ted Kerr](#))

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