

Elon Musk lithium batteries will be no longer be able to be made within the next half of your life-time.

- Musk is beating a dead horse

[Listen](#) | [Print](#)

By [Karen Graham](#)

The U.S. Department of Energy announced the establishment of a Lithium-Ion Battery Recycling Prize and a research and development center for the recycling of critical materials such as cobalt and lithium from lithium-ion batteries.

The research and development center (R&D Center) is to be managed by the Argonne National Laboratory together with the National


Renewable Energy Laboratory and the Oak Ridge National Laboratory. The aim of increasing the [collection and recycling](#) rate of lithium-ion batteries from electric vehicles, consumer electronics, and other applications from less than 5.0 percent to 90 percent. The government is investing \$15 million for this. As part of the initiative, the DOE has also launched a competition for innovative recycling models, including a prize worth \$5.5 million. Universities, private initiatives, and national laboratories are invited to submit their proposals.

 [Portugal is Europe's main lithium producer](#)

Portugal is Europe's main lithium producer

Francisco LEONG, AFP

In the [announcement on January 17](#), US Energy Secretary Rick Perry said: "America's dependence on foreign sources of critical materials undermines our energy security and national security. DOE will leverage the power of competition and the resources of the private sector, universities, and the National Laboratories to develop innovative recycling technologies, which will bolster economic growth, strengthen our energy security, and improve the environment." This latest initiative is also in response to the [President's Executive Order 13817](#), dated December 29, 2017. The executive order identified the need for "developing critical minerals recycling and reprocessing technologies" as part of a broader strategy to "ensure secure and reliable supplies of critical minerals." Before anyone gets the notion that President Trump is starting to focus on the environment - The executive order also directed federal agencies to find ways to increase exploration, mining, and processing of critical minerals and streamline permits for private mining companies, according to [Digital Journal](#).

 [Salar de Olaroz Lithium Mine Argentina July 5 2015. This mine is new and is capable of producing 1...](#)

Salar de Olaroz Lithium Mine, Argentina July 5, 2015. This mine is new and is capable of producing 17,500 metric tons of lithium annually.

Planet Labs, Inc.


Recycling has become critical Looking at the data available, as recently as 2014, just five years ago, there were just three planned battery mega-factories, with over 1 GWh of cell production capacity annually, according to [Waste Management World](#). According to [Benchmark Mineral Intelligence](#), there are currently 26 battery cell plants - either in production or due to expand their capacity. The combined capacity of these plants is 344.5 GWh. It estimates global supply in 2017 to have been around 100GWh. Let's add another piece of data to the discussion. [Circular Energy Storage](#), a consultancy that specializes in energy storage and the circular economy says the total amount of recycled lithium could reach 5800 to 30,000 tons of Lithium Carbonate Equivalent (LCE) by 2025. But as the report also mentions, the volume of material available for recycling is limited due to poor collection systems.

 [Toyota EV-86 with the battery pack in the rear.](#)

Toyota EV-86 with the battery pack in the rear.

Tokumeigakarinoaoshima

[Digital Journal](#) also laid out some data, reporting on the 44.7 million metric tons (Mt) of e-waste (including lithium-ion batteries) generated globally in 2016. The estimated value of recoverable materials in that e-waste was around \$64.6 billion (55 billion euros). **Why are we missing a great opportunity?** Recycled minerals, like lithium, cobalt, nickel, and manganese can be found in new batteries today, but the volumes, compared to the rapid increase in the production of EV batteries is a mere drop in the bucket. This is where Investments in additional recycling capacity and implementation of new technologies is necessary - and with the steep increase in the prices of these minerals on the global market - this would provide an incentive for change. Interestingly, China recycles over 66 percent of its lithium-ion batteries, or 191,000 tons annually, and has created a fast-growing e-waste recycling industry. If and when North America and Europe ever get moving in developing recycling technologies, China will have already gained the competitive edge in proven technology and available capacity.

 [Toshiba's SCiBTM is a highly innovative lithium-ion secondary battery and is effective for ironi...](#)

Toshiba's SCiBTM is a highly innovative lithium-ion secondary battery, and is effective for ironing out frequency fluctuations and supporting stable power networks, and has supplied systems for projects in Japan and around the world.

Toshiba

Now is the right time to establish recycling plants for lithium and other minerals found in batteries and other electronic products. And here's just one more reason for doing this - Lithium is not a finite natural resource, folks. According to a recent [U.S. Geological Survey report](#) prepared by Brian W. Jaskula, there are currently 14 million tons of proven lithium reserves available worldwide. Based on the [typical electric vehicle battery](#) using about about 4.0 kilograms (9.0 pounds) of lithium, this means around 250,000 tons of lithium would be required annually to produce enough electric cars to replace their combustion engine counterparts, according to Parakram Pyakurel, a Postdoctoral Researcher at the Warsash School of Maritime Science and Engineering, Southampton Solent University. **At this rate, the 14 million tons of lithium reserves would be exhausted in about 51 years.**

Why Elon Musk is a really bad guy and why his business operation is a corruption scam

By Former Tesla Staff

You may have run across Musk's self promoting, narcissistic, multi-billion dollar, self-aggrandizing PR hype but here is the other side of the coin. We know these facts from personal interaction with Musk, his companies and his politicians. Everything in this letter can be proven in a jury trial, Congressional hearings or live TV debates. Musk will do anything to keep this information from getting out but... it is too late for him! While this may sound like a bad Hollywood movie script. It all really happened and there is now massive hard copy evidence to prove it.

Elon Musk exists because he bribed DNC politicians including Obama, Clinton and Senators Feinstein, Reid, Boxer, Harris, Spier and Pelosi to give him free taxpayer cash and government resources from the Department of Energy and the California political tax pool. This is proven when you follow-the-money and the insider trading, stock ownership and crony payola kick-backs.

The Energy Dept (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. DNC campaign financiers and DOE staff share stock market holdings with each other under family trusts, shell corporations and layered Goldman Sachs accounts. The deal was: ***Obama funds Tesla, Musk conduits campaign funds to Obama, top Obama staff profit off of insider Musk stocks.***

Elon Musk is a criminal, a mobster, an asshole, a balding fake-hair wearing, plastic surgery-addicted, bi-sexual douchebag, woman-abusing, sex addicted, tax evader. We can put this in writing because all of those identifications regarding Musk can be proven in court and are documented in existing lawsuits and news stories.

Musk exploits poor people and child slaves in the Congo and Afghanistan to mine his lithium and Cobalt. Look up this phrase on the top search engines: "child labor electric car batteries".

Musk spends billions per year to hire Russian trolls, fake blogger fan-boys and buy fake news self-glory look-at-me articles about himself. Musk thinks he is the 'Jesus' of Silicon Valley and he will do anything to make the public think so. Musk is insecure because his father was abusive and his "trophy wife" Mother is overbearing so he developed sociopath-like mental issues. Musk has been professionally diagnosed as a 'psychotic narcissist. He public stated on an investor call that he uses drugs and alcohol to get through the night. We have the tapes.

Musk relies on Google and the DNC Main Stream News (MSN) to hide bad news about him. Fake News manipulator Google is run by Larry Page. Larry is Musk's investor and bromance 'Butt buddy'. They share an apartment. 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. His brother ran Solar City and is now under federal investigation for securities fraud.

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. VC's Tim Draper and Steve Jurvetson are so fanatical about not being embarrassed from a Tesla bankruptcy that they will pump the TSLA stock and threaten anybody who might disclose the Musk misdeeds. Peter Thiel, a Musk 'boyfriend" also protects Musk. Musk, and his cronies, use Palantir, Google and related software to scan the entire internet every few minutes for any occurrence of the words: "Musk",

"Tesla" or "Tesla Fire". They send trolls and fake bloggers (Many of them Russian) to put pro-Musk comments on the comments section of any blogs or articles discussing those topics and try to flood out the truth about Musk. 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. There are no "Tesla Fan Boys". All of the fanatic Tesla comments on the internet are Musk's, Thiel's, Jurvetson's and Draper's fake fanboy trolls. Musk, himself, stays up late at night pretending to be a 'Tesla Fan Boy' on blogs.

The '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.

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 and In-Q-Tel staff and assign them to "dirty tricks teams" to attack his competitors and elected officials who Musk hates.

Musk never founded his companies. He took Tesla away from the founder: Marty, in a hostile take-over!

Musk's "Starlink" satellites are domestic spy and political manipulation tools - never get your internet from one. SpaceX is entirely a spy satellite operation.

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.

Why aren't all of those parties in prison if it is so easy to prove the crime? Think back to recent history: the heads of the Department of Energy, the FBI, The DOJ and the U.S. Attorney General were kicked out of their jobs for corruption. THIS was the corruption they were doing. They all knew about this crime but they were covering it up.

Musk took over Tesla Motors in a hostile take-over in order to exploit lithium, cobalt and other mining corruption deals for his business partners. Let's take a look at the 'lithium' in Musk's horrifically miss-engineered lithium ion batteries:

His batteries cause wars in the Congo, Afghanistan and Bolivia from the corrupt mining deals involved with mining lithium and cobalt. Lithium ion batteries are insider trading-owned by ex-CIA boss Woolsey and DOE Boss Chu. Lithium ion batteries 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; and 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, or deposits, 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. This is not a theory. This is a scientific fact. That is why you hear about more and more lithium batteries catching fire and blowing up. Additionally, scientists also speculate that the increasing presence of low energy nuclear background energy and wifi energy in the environment is making lithium ion batteries explode more often lately. This theory is upheld by the increasing number of FAA reports about commercial airline cabins suddenly "filling up with toxic smoke" as some lithium ion battery explodes in someones overhead luggage. As commercial jets go higher they lose the protection of the atmosphere and are subjected to more gamma (and other) radiation from overhead. This makes the already unstable lithium ion batteries on board blow up.

"Bad Guys" have figured out how to make them explode remotely in devices by making the device electronics cause the batteries to

overload. The dangers of lithium ion batteries are hidden by CNN and Main Stream News (MSN) because pretty much only the DNC people profit from them and the DNC folks control CNN and the MSN.

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.

Tom Steyer is a notorious DNC financier. His partner, Margaret Sullivan ran, the federal USAID agency, USAID sent all of the DNC campaign financiers in Silicon Valley a federal 'report' from USAID that said there was "*A TRILLION DOLLARS OF LITHIUM IN AFGHANISTAN*" and promised to give those lithium mines, EXCLUSIVELY, to the Silicon Valley venture capitalists if they funded and web search manipulated the election for Obama to take over the White House. We have the documents proving this. In other words, a re-up of the Afghan War was caused by Elon Musk and it killed American soldiers so that Musk could buy more mansions and trophy wives.

Alkaline, 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.

Tesla Motors has caused far more deaths and injuries than the world generally knows about. 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 seen in the Main Stream News (MSN) 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.

The DNC bosses, Congress people and federal executives 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 and Musk 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 "media assassins".

Gawker and Gizmodo Media set-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! Google and Musk are partners-in-crime. Larry Page steals technology for Google and Musk meets with Larry Page to advise him on which technologies to steal and how to bypass FEC laws. Musk has exceeded FEC campaign finance limits by billions of dollars via "in-kind" services.

There is so much more to reveal but you get the picture.

This is all being covered up because top State and Federal officials are in on it, own the stock in it and are so deeply involved in it that they could go to Federal prison when this all comes out.

This is Part 1. There is more to be released. Show this document to the United States Senate and see what they say about all this.

Version 1.2

More about [Lithium ion batteries](#), [Dell recycling](#), [china leads the](#)

[world, Lithium reserves, five decades](#)