

Submitter: Kathy Ging
On Behalf Of: Amethyst Realty LLC
Committee: House Committee On Climate, Energy, and Environment
Measure: HB2215

(I mentioned Hemp Batteries in my 2.20.23 testimony opposing Oregon HB2215.

Decentralized energy storage including innovative battery technology rapidly evolving now mainly because of powering Electric Vehicles can help with demand reduction reducing reliance on need for firm power and capital intensive central power generating plants that can be attacked manually or via cyber techniques.

A recent documentary stated that sabotage of only 9 USA power stations could dismantle the electric grid. Another issue of which we need to be cognizant in the PNW is devastating earthquakes possible in the next 50 years.

You may be aware that most house+ hazard insurance policies EXCLUDE damage not only from earthquakes unless spendy insurance rider added to policy; but also EXCLUDE damage from nuclear disaster. Nuclear plants including smaller units could devastate tax bases in communities in which they are sited if accidents occur in addition to leaving long term brown fields, contaminated water and dead zones bereft of plants and wild life and adverse health issues some of which can be passed on to future generations.)

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Excerpt: 'Green State reported that there are new plant-based batteries, which may be the solution to the problems generated by conventional batteries, made of lithium ions and graphene.'

[https://www.benzinga.com/general/biotech/23/02/30886045/hemp-batteries-the-future-of-the-automotive-market.](https://www.benzinga.com/general/biotech/23/02/30886045/hemp-batteries-the-future-of-the-automotive-market)

Hemp Batteries: The Future Of The Automotive Market?

by El Planteo, Benzinga Contributor  
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By Lucía Tedesco via El Planteo.

Electric cars like Tesla, Lucid Motors and Nio are getting closer and closer to leading the automotive market. As the demand for them grows, batteries will also play an important role, even if they are not yet working in optimal conditions.

According to Forbes, electric vehicle batteries are short-range, take a long time to charge, and pollute the environment.

However, Green State reported that there are new plant-based batteries, which may be the solution to the problems generated by conventional batteries, made of lithium ions and graphene.

Plant-based batteries contain by-products of the hemp plant. They have not yet been thoroughly investigated, but given the intention to further develop the industry, it is likely that there will soon be more news on the subject.

In fact, the company Bemp Research along with the University of North Texas created a lithium-sulfur battery made from boron carbide, a derivative of hemp. The company, through this prototype, concluded that it has advantages over existing batteries. They are cheap, recyclable, lightweight, and can be produced on a large scale.

However, Bemp is not the only one that has investigated hemp in the automotive industry: Alternet Systems created batteries that, according to David Mitlin - the Clarkson University professor hired for this project- are supercapacitors that store much more energy than the already known devices.

The reality is that this is an expensive alternative today. However, so are those containing graphene and lithium. Therefore, this is an opportunity to include the virtues of hemp in the automotive industry. In fact, its components will be vital to boost the manufacture of auto parts in the future.

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