

PSLU Committee

From: Rob Weltman <rob.weltman@gmail.com>
Sent: Wednesday, November 16, 2022 12:29 PM
To: PSLU Committee
Subject: EV battery recycling info

Aloha mai,

This information was requested by Council Member King at today's PSLU meeting.

1. This talks about many aspects of battery longevity, reuse and recycling. One important thing mentioned in passing:

The European Union already regulates EV battery disposal under an “extended producer responsibility” scheme and is set to update its regulations to set specific targets for minerals recovery.

<https://www.forbes.com/sites/carltonreid/2022/08/01/electric-car-batteries-lasting-longer-than-predicted-delays-recycling-programs/>

2. The following covers reuse and recycling of EV batteries as elements of a circular economy. One point made (also in the previous article):

As EV batteries reach end-of-service, they are still able to store at least 70% of their original capacity which can be repurposed for “second life” energy storage uses in new applications such as; electrical grids and communications towers, as well as energy storage for solar farms, wind farms, and other renewable sources.

<https://www.usa.ev-battery-recycling.com/>

3. There is awareness at the federal level.

US Senate passes bill to maximize EV battery recycling for federal fleet vehicles

<https://www.utilitydive.com/news/senate-strategic-ev-management-act-lithium-recycle/632058/>

4. This article from the Union of Concerned Scientists goes into how EV batteries are recycled. After going over the ways the batteries are reused after their effective primary life as EV batteries, it says:

Once materials have been recovered, they can then be processed and used in the manufacturing of new lithium-ion batteries.

<https://blog.ucsusa.org/jessica-dunn/are-ev-batteries-recyclable/>

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Me ke aloha,
Rob