



RePack converts used electric vehicle batteries into home and business energy storage systems | Photo source [RePack](#)

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USED EV BATTERIES REPURPOSED FOR HOME AND BUSINESS ENERGY STORAGE

 MOBILITY & TRANSPORT

The recycled battery systems include a software platform to track real-time energy usage

Spotted: The scale of the electric vehicle (EV) battery recycling challenge is becoming clearer. Millions of batteries are nearing the end of their life, leaving innovators scrambling to find ways to keep them out of landfill – where most currently end up. One solution to this waste comes from Norwegian startup RePack. The company repurposes used EV batteries into energy storage solutions for homes and businesses.

Using a proprietary mix of hardware and software, RePack provides its customers with cloud management of a tailored energy storage system. Each battery system is built and delivered within three to four months. The number of old EV batteries used in each storage set-up depends on the needs of the user. Currently, RePack's home systems come in either 12 or 36 kilowatt-hour versions, with a 'Home Pro' version designed for higher consumption locations such as farms, guesthouses, or small enterprises.

The RePack C&I (commercial and industrial) system ranges in power from 36 kilowatt-hours to 1 megawatt-hour, and can be scaled as needed. Currently developing its manufacturing process, the startup plans to sell plug-and-play units to customers in Germany, Austria, Luxembourg, Belgium, the Netherlands, and Switzerland by the end of 2022.

In addition to recycling, Springwise has spotted EV battery innovation in the form of AI-powered [smart chargers](#) and a low-energy, chemical-free [lithium mining process](#).

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Takeaway:

Researchers call [the gap](#) between recycling and production of lithium ion batteries (LIB) 'an untapped source of valuable materials'. Building the capacity and resilience of circular economies is key to turning the resource-intensive manufacture of LIB into a sustainable process with minimal waste. Renewable energy is a must for circularity, as is improved waste collection and sorting processes. With recycling technologies rapidly improving, more attention needs to be given to strengthening appropriate, supportive legislation at all of levels, from local to international.