



Battery life 360 kWh

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The EV maker revealed the ET7 electric sedan powered by its new 150 kWh battery achieved 1,044 km (650 miles) CLTC range on a single charge. And it still had 3% battery capacity remaining.

Giving a new lease of life to (EV) batteries increases their commercial value and reduces their environmental impact. The systems can be flexibly deployed on (construction) projects or locations facing capacity shortages due to grid congestion.

The Smartville 360 BESS utilizes proprietary safety and battery power interfaces and an energy management system to ensure reliability. It also uses life-cycle optimization controls that result in reliable performance and longevity.

E-STOR is their flagship storage unit and can stash up to 360 kWh. Each one of their packs is made with 24-second life Renault EV batteries. The storage unit comes in a 20ft container, and it's designed for commercial applications. More E-STOR can be connected, scaling up capacity depending on the needs.

Electric Car Battery Life: Everything You Need to Know, Including How Long They Last. The battery packs of electric vehicles are quite resilient, with the lithium-ion type used in...

Although having used to drive thousands of kilometers, spent electric vehicle (EV) batteries can have a second life. The battery pack is the most expensive component of electric cars nowadays, and as recycling them is still not that easy, it might just be wiser to reuse them for something else.

What does a battery do? It stores energy, so why not use discarded EV batteries for stationary storage? These three companies have found a way to kill two birds with one stone: revalorizing batteries and developing new storage technologies - very much in need to stash excess power from solar panels and wind turbines.

Like cactuses store and optimize water use, Finnish start-up Cactos developed Cactos One, a 100-kilowatt-hour battery pack made with Tesla Model S batteries. The device features 50 kilowatts of charging and discharging power, and it's controlled through a cloud system. "We are providing our customers with a hassle-free way to store energy," previously told Innovation Origins Cactos's co-founder Oskari Jaakkola. The start-up produces, operates, and leases the storage units, as customers only have to pay a monthly fee for the service.

Cactos Spine is the cloud control unit that makes the storage units smart. This technology allows the battery to shift load, charging itself when electricity is cheap and discharging when it's more expensive. Additionally, Cactos One is also capable of peak shaving, with EV charging locations that can discharge automatically when there is more power demand, saving costs from peak energy charges. The storage unit can also work as an



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electricity buffer in case of blackouts and balances the grid by delivering reserve market capacity, allowing for a higher renewable power intake.

The Spanish company repurposes EV batteries for different use cases. Beeplanet offers systems from four kWh to over a MWh capacity. Their Home ESS allows accumulating excess energy from solar panels, using power whenever needed. The Power ESS, instead, is designed for commercial and industrial applications. The system is modular and scalable, with 46 kWh racks that can reach MWh capacity. A cloud that collects all battery information complements the storage units. This way, Beeplanet can monitor the batteries and predict maintenance.

Need to stack more stationary storage? Connected Energy got you covered. E-STOR is their flagship storage unit and can stash up to 360 kWh. Each one of their packs is made with 24- second life Renault EV batteries. The storage unit comes in a 20ft container, and it's designed for commercial applications. More E-STOR can be connected, scaling up capacity depending on the needs.

Storage units are controlled through a software system, which automates and optimizes its functioning. This software's feature establishes a hierarchy of rules, making the system respond to the user's priorities.

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