

**INDUSTRIES
NEWTECH**

BATTERY OUT

**SUBSCRIPTION
SERVICE**



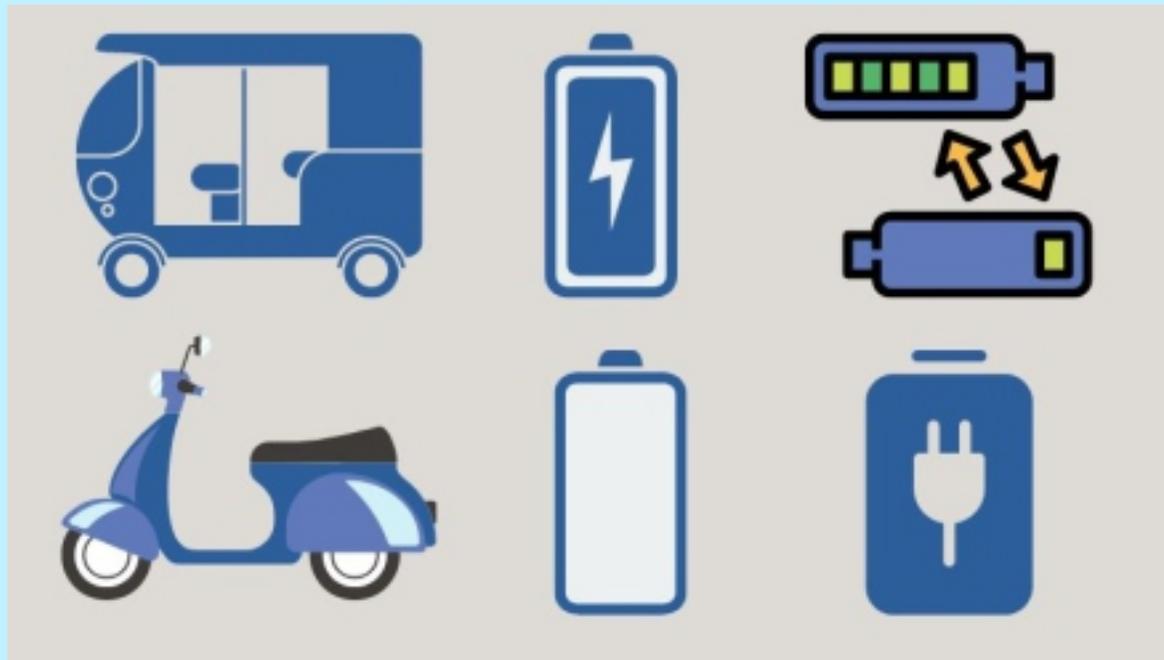
It's not just air travel of course... traveling with Lithium-Ion batteries is dangerous.

Battery-Out provides a subscription service for people who are aware of the potential dangers of the batteries in their Phones, Laptops, Cameras, Tablets and other devices with these rechargeable batteries.

At various transport terminals, you will have the ability to drop off your device or battery and have it secured for your return. Once you arrive at your destination, you will be able to hire a compatible battery during your stay.

You will receive a fully charged battery and, when required, a compatible charger for the duration of your stay.

When you leave your battery with us at your 'home base' it will be tested, cleaned, recharged and insured.



Batteries as a Service (BaaS) is a subscription-based business model where customers access battery power for electric vehicles, equipment, or energy storage systems without purchasing or owning the batteries outright, shifting costs from capital expenses to operational ones.

Key Applications

BaaS originated prominently in the EV sector, pioneered by companies like NIO in China, which separates vehicle and battery ownership to cut upfront costs by 20-30% and enable swapping or upgrades. Industrial uses include mining and construction equipment from providers like Epiroc and Sandvik, who handle battery maintenance, certification, and recycling for electric machinery. Emerging grid-scale applications focus on Battery Energy Storage Systems (BESS)-as-a-Service, such as ABB's zero-CapEx model for data centers, logistics, and renewables integration.

Major Providers

NIO: Offers battery subscriptions with power swap stations and upgrades for EVs.

Epiroc: Targets electric mining vehicles with full lifecycle battery management.

Sandvik: Provides batteries, chargers, and maintenance for mining fleets.

ABB: Delivers turnkey BESS for commercial energy resilience and trading.

Market Trends

The model thrives in Asia for EVs but faces adoption hurdles in Western markets due to infrastructure and regulations. Global BaaS for EVs and fleets is projected to reach \$11.2 billion by 2032, driven by fleet electrification from companies like Amazon and UPS. Benefits include predictable costs, technology upgrades, and circular economy practices like battery repurposing.

