

Will Europe's first lithium-ion battery cell Gigafactory be financed?

The European Investment Bank (EIB) has agreed in principle to provide EUR 350 million in financing to support Northvolt's development of Europe's first lithium-ion battery cell gigafactory. The factory in Sweden will help reduce the EU's dependence on oil and imported batteries.

Where do car manufacturers recycle lithium-ion batteries?

Car manufacturers such as Mercedes-Benz with Licular, whose recycling site is licenced in Kuppenheim (Southwest Germany), are expanding their own spoke and hub recycling capacities close to their production networks. Figure 1: Existing and announced recycling sites for lithium-ion batteries in Europe (as of June 2024)

How many tonnes of lithium-ion batteries can be recycled in Europe?

The data used in this article comes from the BEMA2020 (grant number 03XP0272B) and BETSY (grant number 03XP0540B) research projects, which are funded by the German Federal Ministry of Education and Research. Recycling capacities for lithium-ion batteries in Europe will increase to 330,000 tonnes per year by 2026.

Which companies recycle lithium ion batteries?

Some companies are already active in the battery industry or are established recyclers of lithium-ion batteries (e.g., Stena Recycling, Accurec, Redux and TES). In addition, OEMs such as Mercedes-Benz and Volkswagen have also established initial sites in Kuppenheim and Salzgitter.

Why are traction batteries being repurposed in Europe?

Statutory collection and recycling quotas, the expansion of the European battery industry and the production scrap in cell manufacturing are further stimulating the development of the recycling industry. End-of-life (EoL) traction batteries, which currently still often come from pilot and test vehicles, are also contributing to this.

Do all European battery recycling plants have the same capacity?

Almost every player in European battery recycling is planning to set up several sites for its recycling activities. Information on the capacity of most recycling plants is publicly available. However, as not all plants have the same recycling depth, it is not possible to simply add these capacities together.

CEENERGYNEWS" team took a visit to the biggest EV battery production site in Europe - LG Energy Solution Wrocław. As part of the trip, we took insights into the company's "Learning Center" and heard about its ...

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battery solution for your solar, golf cart, forklift, marine and RV needs. ... China, July 1, ...

In this article, we will guide you on lithium battery repair methods to fix lithium battery issues. ... You can take the lithium ion battery restoration method to rest the BMS ...

WP2- All-Solid-State-Lithium-Batteries (ASSLBs) and All-Solid-State-Lithium-Sulphur-Batteries (ASSLSBs) Material Development Contribution: exploring and ...

Current and announced recycling sites for lithium-ion batteries in Europe. The map in Figure 1 shows the lithium-ion battery recycling facilities installed by the end of 2023 and those announced for the coming years in Europe and their operators.

The Battery Regulation has set the targets for minimum recycled lithium content in lithium-ion batteries at 6% by 2031 and 12% by 2036. While these goals are within reach (11% in 2031 and 13% in 2036, ...

1 ??&#0183; RESTORE aims to optimise the battery recycling process through innovative technologies that enable: Automated sorting and safe pre-processing of end-of-life lithium-ion batteries ...

A sustainable European value chain for Lithium Ion batteries requires the development of hybrid energy storage devices which combine the advantages of Lithium Ion Batteries (high energy density) with those of Ultracapacitors (high power density, long lifetime).

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1 ??&#0183; The Japanese battery cell manufacturer AESC has received important news for the construction of its factory near the Renault plant in Douai in northern France: The EU Commission has approved a grant of 48 million euros from the French government.

Driven by government support, decarbonisation efforts and technological advancements, electric vehicles - with their lithium-ion batteries - are becoming increasingly common. Electric vehicles produce fewer emissions than combustion engine ones, but fewer is not zero. ... is key and required by the Batteries Regulation (EU) 2023/1542.

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