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Here's to a new one!

The European project Battery2Life deals with the "second life" of e-vehicle batteries – with Austrian participation, among other things.

Editor

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When it comes to electromobility, a frequently asked question is: What actually happens to the batteries of the vehicles when they are no longer needed? After all, the electricity storage systems are usually far from broken in the narrowest sense of the word at the end of a car's life. On the contrary, they can be reused elsewhere with high utility value. The EU project called Battery2Life (https://www.battery2life-project.eu/) has therefore been working intensively on this topic for some time.

What is the idea?

The electric vehicle industry is increasingly faced with the challenge of dealing with **used batteries**, which may no longer be good enough for use in vehicles, but still store a lot of energy. They can then **continue** to be used to support environmentally friendly energy sources – for example as storage applications in domestic households.

This can subsequently facilita
share of renewable energies

How does it work?

Battery2Life is working on **two new battery designs** to meet future market needs: one adapts existing formats, the second is intended to represent completely new design principles for the different periods of use of the batteries.

These innovative designs are currently being tested and evaluated in two sustainable application scenarios: on the one hand as **home energy storage in** Austria and on the other hand as **grid-wide storage applications** in Greece. The knowledge gained will be used to analyse the impact of the project on the environment and the economy in order to subsequently prepare recommendations for various technical standardisation committees.

As part of the project, the Austrian AIT is focusing on developing a battery management system that uses the **principles of the circular economy** to meet the needs of batteries in both phases of their use. This system uses wireless communication to simplify the disassembly and reassembly of batteries for their "second life". In addition, special sensors are integrated to increase safety during post-use.

What's the point?

Elisabeth Dörr, AIT project manager at Battery2Life, says: "The results will help to support the transition to green energy and have a positive impact on the European economy and the environment. It is an important step towards **the sustainable use of electric vehicle batteries** and contributes to the promotion of a circular economy."

Info

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