

Battery2Life recycles used EV batteries for stationary use

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Battery2Life focuses on giving used batteries from electric vehicles a stationary second life.

The [Battery2Life](#) project is funded within the framework of [Horizon Europe](#). The idea behind it is that batteries that are only at 70 or 80 percent of their original capacity are no longer suitable for e-mobility applications, but can still be of value elsewhere. Instead of discarding these batteries, Battery2Life offers solutions to give them a second life. The consortium aims to develop battery management systems and optimized designs that enable reliable reconfiguration of used batteries.




Pilot projects

Battery2Life conducts two design tests for different frameworks. The first framework focuses on optimizing existing battery designs for second-life applications, while the second framework introduces completely new design principles, taking into account both the first and second life phases of the battery.

These designs are extensively tested in two application scenarios: domestic storage in Austria and large-scale grid storage in Greece. The tests should show whether the idea is sustainable. They should also serve as a basis for recommendations to technical standardization committees.

Within the consortium, the Austrian Institute of Technology (AIT) focuses on the development of a new battery management system. The system shall enable wireless communication between the main battery management system and the module management systems. While streamlining the disassembly and assembly process for second-life applications. In addition, AIT integrates sensors to provide an accurate estimate of battery condition and increase safety during second life.

"Battery2Life is an important step towards the sustainable use of electric vehicle batteries and contributes to the promotion of a circular economy,"
 Elisabeth Dörr, project manager of Battery2Life at AIT.

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