



4 EU-FUNDED PROJECTS

Closely collaborating towards the production of batteries with lower carbon footprint.



ABOUT

BatWoMan aims at paving the way for **sustainable and cost-efficient lithium-ion battery cell production** in the European Union. This is achieved through the **removal of volatile organic compounds in electrode processing** and the use of **high dry mass content slurries**. An innovative dry room requirement reduction concept with improved electrolyte filling will be established, as well as low-cost and energy-efficient cell conditioning, namely wetting, formation and ageing. An AI-based platform and a digital battery dataspace and passport will support these technological improvements. **The overall goal of the project is to reduce the production cost and energy consumption by more than half**, pushing towards low-emission battery cell manufacturing.

CONTACT



<https://www.batwoman.eu/>



ABOUT

The greenSPEED consortium aims to secure Europe's leadership in low carbon battery production by **improving production processes** and establishing them in Europe. This will be done by providing solutions for new sustainable electrode and cell manufacturing processes with **reduced energy consumption, lower carbon footprint and ZERO emissions of Volatile Organic Compounds (VOCs)**.

The project will address two major drawbacks of current battery cell production techniques: The high energy consumption of the individual production steps and the use of production processes that require organic casting solvents. The greenSPEED technology will tackle both of these aspects and, together with the **increase in energy density**, will lead to a **significant reduction in the cost of lithium-ion cells**.

CONTACT



<https://greenspeed-project.eu/>



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In the NoVOC project, our goal is **to create, showcase, and compare two cutting-edge methods for making battery electrodes**: one using water-based manufacturing and the other using a dry process.

These electrodes **will later be used for the production of automotive batteries**. Our focus is on producing these electrodes in an environmentally friendly and energy-efficient way for a greener future in Europe and beyond.

CONTACT



@NoVOC_project



<https://www.novoc.eu>



novoc_eu



ABOUT

GIGAGREEN proposes a structured research plan to develop and scale up **novel electrode and cell component manufacturing processes** that follow a **Design to Manufacture** approach in line with Europe's strategic goal of becoming a global leader in the **Li-ion battery value chain**.

This means that GIGAGREEN seeks for the **minimum environmental impact** and energy consumption, cell designs which **facilitate the re-use and disassembly**, increase of the **cost-efficiency** and safety of processes and products, and high-throughput technologies able to be easily scaled up and automated in the context of industry 4.0/5.0 gigafactories.

CONTACT



@GIGAGREEN_



<http://www.gigagreenproject.eu/>



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