



# HYFlow

HYBRID ENERGY STORAGE SYSTEM

## DEVELOPMENT OF A SUSTAINABLE HYBRID STORAGE SYSTEM based on high-power vanadium redox flow battery and supercapacitor technology

Our international consortium, enabled through the EU project HyFlow, will

- create a **modern** and **sustainable hybrid energy storage system** following the goal of the European Union to decrease the global environmental impact.
- focus on technological and ecological **improvements** of the **components, their management systems and the interaction through the complete supply chain.**
- enhance existing storage components for **optimal hybridization** by improved material utilization and cell design and developed high-level control algorithms.

### HYFLOW'S HYBRID ENERGY STORAGE SYSTEM

SUSTAINABLE | COST-EFFECTIVE | HIGHLY FLEXIBLE

11 partners from Austria, Czech Republic, Germany, Italy, Portugal, Russia and Spain are working on the project that is coordinated by Prof. Karl-Heinz Pettinger, UAS Landshut.



#### University of Applied Sciences Landshut

Technology Centre Energy



**The University of Applied Sciences Landshut (ULA)** is a governmental institution for further education with more than 4700 students. The Technology Centre For Energy (TZE) as an external technology transfer center located in Ruhstorf an der Rott, bundles the expertise of the University of Applied Sciences Landshut in energy research. In Ruhstorf, we develop the technical solutions for the future of energy. Our researchers work on energy storage topics, smart energy grids, energy efficiency and energy systems. We investigate how these components interact optimally and demonstrate how they can be applied in practice. The focus of research at TZE is on energy storage topics with project work in the context of batteries or hybrid systems for short-term storage.

The University of Applied Sciences Landshut along with its TZE is coordinating the project HyFlow, using a slim, modern and robust management structure and a fully instrumented laboratory for the investigation and test of hybrid energy storage systems.



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[www.hyflow-h2020.eu](http://www.hyflow-h2020.eu)



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