

Specific energy storage applications belgium

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Electrical storage has a key role to play in the energy transition. Not only to bridge the mismatch between power generation and power consumption/use of renewable energy, but also to improve electricity transmission extensive research is being carried out for better, safer and more efficient battery technologies. In addition to new materials and technologies for batteries, EnergyVille is also looking for solutions to optimise existing battery technologies. The ultimate aim is to extend the battery range, lifetime and performance, and increase the charging rate without sacrificing safety.

Batteries used in stationary applications, but also those for mobile use (car, drone, boat, airplane, bike) display specific needs towards the materials development.

A consortium of nine partners is joining forces to boost the development of clean hydrogen innovation.

How can we meet a continuous growing energy demand and how to do so while reducing our environmental carbon footprint?

Nano-CCU aims to develop high-throughput electrolyzers for CO₂ capture and electrocatalytic conversion directly from gas or vapour at CO₂ point sources.

SYN-CAT seeks to develop a combination technology on the basis of direct sunlight and renewable energy to selectively convert CO₂ into methanol.

The key objective is to develop and validate a photonic device and chemical process concept for the sunlight-powered conversion of CO₂ and green H₂.

The SOLiDIFY project proposes a unique manufacturing process and solid-electrolyte material to fabricate Lithium-metal solid-state batteries.

The aim of the Lumen project is to show that hydrogen and CO₂, in combination with sunlight, can be converted into synthetic gas in a commercially profitable way.

The EPOC project under the energy transition fund combines the expertise of 14 Belgian partners to improve the current state-of-the art energy models.



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The BREGILAB project will investigate in detail how solar energy can be harvested with a minimal cost for grid expansion and batteries.

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