

2LIPP

- 2nd Life for Power Plants



Co-funded by
the European Union



Yesterday's fossil fuel power plants can play a key role in tomorrow's green transition

Key Objectives

- Accelerate green transition by retrofitting existing power plants with advanced energy storage solutions.
- Demonstrate scalable and cost-efficient hybrid energy storage.
- Replace fossil fuels and biomass, ensuring stable renewable energy supply.

The Journey

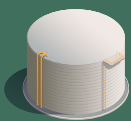
The innovative European partners in the 2LIPP project will demonstrate a proof-of-concept for a disruptive approach to transitioning traditional power plants and combined heat and power plants to be able to operate effectively in a renewable energy grid.

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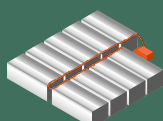
Technologies

1. High temperature salt storage with steam turbine.



Long-duration energy storage.

2. Battery storage consisting of used car batteries.



Short-duration energy storage.

3. High-tech Flywheel.



High-tech energy balancing.

4. Hybrid Energy Management System



Exploits the features of the technologies to balance the grid.

Project Site: Bornholm Energy Island

- > **Location:** Rønne, Bornholm – an ideal test site for renewable energy solutions.
- > **Features:** Mini-community environment, isolated grid for accurate data, and district heating integration.

Long-Term Goals

- > Full conversion of traditional power plants into energy storage hubs.
- > Enhanced integration of wind energy into the European grid.
- > CO2 emissions minimized as fossil fuels are phased out.



Impact



Potential to renew up to 500 GW of installed power capacity across Europe's thermal power plants.



Reduces reliance on fossil fuels and biomass while increasing the value of renewable energy.



Can lead to significant reductions in district heating costs and ensure energy stability.

Consortium Partners



Want to know more?
Don't hesitate to reach out to us.

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