

Together *we unlock*  
Europe's LDES future



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AVANGUARD's *progress*



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 AVANGUARD

OPEN TOOLS, CONNECTED EUROPE

# Advancing Long Duration Energy Storage

AVANGUARD is developing a free, open-source digital platform to help energy stakeholders plan, assess and optimise Long Duration Energy Storage (LDES) across Europe.



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement N. 101269474. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Commission. The European Commission cannot be held responsible for them.



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# AVANGUARD *at a glance*

48 months

June 2026 – May 2030

€6.998M

Project budget

30 partners

13 countries

DTU

Coordinator

101269474

Grant Agreement

Horizon Europe

Programme



## What AVANGUARD *will deliver*



### Shared Data Hub

Harmonised storage, grid and market data



### Open-source Tool Suite

Planning, grid, dispatch and market tools



### Deliver policy

Provide techno-economic viability, grid reliability and analysis to support investment and deployment decisions



### Policy guidance

Generate inputs for LDES policy development and regulatory roadmaps across the EU



### Training & uptake

EU-wide training for stakeholders and long-term adoption

## 4 Use cases *across Europe*

AVANGUARD's approach will be validated through four regional Use Cases, each involving local grid operators and real operating conditions.

