



## Overview

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What is Malta's long-duration energy storage system?

Malta's utility-scale, long-duration energy storage system uses steam-based heat pump technology to deliver dispatchable, cost-effective energy. Malta's long-duration energy storage solution is already being deployed. Hear directly from the voices working alongside us to advance reliable, sustainable energy solutions.

How efficient is Malta's thermal storage system?

Malta's system also achieves a power-to-power charge/discharge round-trip efficiency (RTE) of up to 60%, which is about 50% higher than other thermal storage systems without heat pump charging.

How long can a Malta storage unit be charged and discharged?

A: A Malta storage unit can be charged and discharged 100% in unlimited cycles without degradation of the storage media. As the main storage medium, Malta has selected a natural thermo-solar salt sourced by solar evaporation (e.g., in the Atacama Desert of Chile).

What is utility-scale battery storage?

"Utility-scale battery storage is a game changer for the electric grid. It provides the flexibility and resilience needed to accommodate increasing amounts of renewable energy, reducing reliance on fossil fuels and paving the way for a cleaner, more sustainable energy future." renewable energy sources.

How does Horizon Europe support energy storage projects?

A: They play a crucial role in financing energy storage projects by providing grants, subsidies and low-interest loans to reduce financial risks for developers. In the EU, the Horizon Europe program offers substantial funding for research and innovation in renewable energy technologies, including

energy storage.

## Malta Energy Storage System Complete Equipment

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