

## Energy storage estonia

The newly opened Pikkori solar park situated in Kilingi-Nõmme, Southern Estonia, comes equipped with a 2 MWh storage battery capable of meeting the electricity needs of all 1500 residents for over an hour.

Pikkori is the largest energy storage solar park in Estonia, featuring a 2 MWh Huawei battery at its core. The solar park strategically positions its solar panels to face both east and west, meaning electricity is generated over a longer period of time compared to south-facing parks. In the future, Sunly plans to add energy storage to other power plants in Estonia, the Baltics and Poland.

Priit Lepasepp, founder and CEO of Sunly explained that developing energy storage for solar and wind parks is a crucial direction for Sunly today. "The unique approach of this project optimizes the use of solar energy. The integrated battery energy storage system significantly increases the availability of electricity, providing power to the grid even when the sun is not shining," emphasized Lepasepp.

Alar Heikla, Deputy Country Manager at Huawei Technologies Estonia stated that Huawei is honored to be given this opportunity to continue working together with Sunly to build innovative solutions for projects like Pikkori which uses Huawei's energy storage FusionSolar 2MWh ESS Big Energy Storage product. "With the renewal and expansion of our cooperation, we hope to develop meaningful and world-class solutions to reduce carbon footprints and to provide advanced technologies as part of our commitment to the sustainability agenda," said Heikla.

The solar park is built on marshy ground that would otherwise be challenging to find a use for, contributing to land reclamation within the community. The solar park was constructed considering the needs and values of the community by Sunly and Metsagrupp's joint venture, Metsapõike 2 LLC.

TALLINN, Estonia, April 04, 2024 (GLOBE NEWSWIRE) -- The Estonian Ministry of Climate signs the Memorandum of Understanding (MoU) with energy company Zero Terrain to help Estonia achieve its 100% renewable energy goal by 2030. With this cooperation, Zero Terrain is collaborating closely with the government to devise solutions to enable the realisation of the pumped-hydro energy storage (PHS) project in Estonia, including supporting securing capital and addressing market challenges.

Additionally, Zero Terrain receives a grant of EUR1.98M from the state's applied research programme to support Zero Terrain project development in Estonia and technology export.

The Zero Terrain Paldiski 500MW underground long-duration energy storage plant is a significant advancement of the conventional PHS technology, making it possible to build anywhere, even on flat land.

Zero Terrain Paldiski represents a notable milestone in the country's energy system. Paldiski Pumped Hydro

Energy Storage plant is an EU Project of Common Interest (PCI project). It is the only greenfield pumped hydro energy storage project in the Northern Baltic region and will also be the largest facility in the country.

"Signing the MoU is a significant step forward in Zero Terrain's journey towards a clean and secure energy future. We believe there can't be a renewable energy-driven energy system without large-scale, long-duration energy storage. This collaboration signifies the cooperation and a commitment to driving positive change in the Estonian renewable energy landscape," says Peep Siitam, the Founder and CEO of Zero Terrain.

Estonia's first long-duration energy storage project, Zero Terrain Paldiski, obtained the main building permits in December 2022. Construction of the country's first pumped-hydro storage plant will begin in 2025. During the nominal operating cycle of 12 hours, Zero Terrain Paldiski generates 6GWh of power to the grid, which is somewhat more than the average daily consumption of all Estonian households.

Zero Terrain also receives a grant of 1.98MEUR from the state's applied research programme. According to Siitam, the grant will be used to develop Zero Terrain modular design, start development activities in other countries, and involve new investors in Zero Terrain Paldiski, Estonia.

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