

Scale of Norway s new energy storage power stations



Overview

Well, Oslo's new 150-meter deep storage shafts might've just cracked the code. As of March 2025, Norway's government has committed \$2.1 billion to gravity energy storage systems - but what makes this 19th-century physics concept suddenly viable for modern grids?

. Norsk Hydro will invest about \$110 million after tax to build the Illvatn pumped hydro plant in western Norway. Norsk Hydro has approved the construction of the Illvatn pumped-storage project in Luster, western Norway, the company's largest hydropower development in more than 20 years, which will . Let's cut to the chase: Oslo builds largest energy storage station, and it's not just another infrastructure project. 2 GWh behemoth, set to power 180,000 homes during peak demand, is rewriting the rules of renewable energy integration. But why should you care?

Well, imagine a world where . ble capture and storage of 400000 tonnes of CO2. Construction of the Illvatn pumped storage power plant in the Luster Municipality will begin this November, with operations expected to start in 2030.

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84 GWh pumped storage project planned for Norway

This project could increase annual power production by 800 GWh and capacity by 650 MW. The total investment is estimated to be up to NOK7 billion to 8 billion, (US\$660 million to \$756

Data from the power system

Real time map that shows the power exchange and prices between the different price areas in Denmark, Sweden, Finland, Norway, Estonia, Latvia and Lithuania.



[Oslo's Giant Leap: Building the World's Largest Energy Storage Station](#)

As Oslo's storage station comes online in Q3 2024, one thing's clear: the energy storage race isn't about who's biggest. It's about who can create the smartest, most adaptable systems.

FC Subheading Subheading

Norway is fortuitous in that it is blessed with relatively large CO2 storage potential which, according to the Norwegian Petroleum Directorate, is estimated at about 70 billion tonnes (GtCO2e).¹³ For



Oslo Gravity Energy Storage: The \$2.1 Billion Bet Reshaping



[Hydro approves largest pumped hydro project in more than 20 years in Norway](#)

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Oslo science valley energy storage power station

Due to the fluctuating renewable energy sources represented by wind power, it is essential that new type power systems are equipped with sufficient energy storage devices to

[Hydro approves largest pumped hydro project in more than 20 years in Norway](#)

The project involves constructing an 8 km tunnel to connect a lower reservoir called Fivlemyrane at 1,018 meters above sea level with the Illvatn reservoir at 1,382 meters, and the new



[Hydro invests NOK 1.2 billion to build Illvatn pumped storage power](#)

Hydro has made the final investment decision for its largest hydropower development in over 20 years. Construction of the Illvatn pumped storage power plant in the Luster Municipality will

Norway Energy Storage Outlook

While Norway boasts a robust renewable energy sector dominated by hydropower, large-scale dedicated energy storage facilities are still in their early stages of development.



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