



# Swedish pumped hydro storage





## Overview

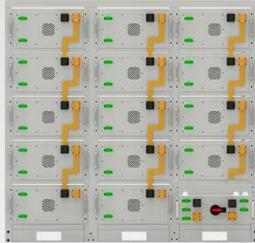
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Fortum has initiated a two-year feasibility study to explore potential for new pumped hydro storage facilities in Sweden. Pumped Hydro Storage's solution enables large-scale electricity storage with the help of the proven technology of pumped storage. The storage method (PSH) is characterized by low cost, high efficiency, and a long service. The company has said it will examine commercial, technological, environmental and regulatory conditions for the new plants. Welcome to Sweden's hydropower storage scene in 2025 - where ancient glaciers meet cutting-edge tech. Finnish energy firm Fortum Oyj (HEL:FORTUM), which operates three pumped hydro storage plants in Sweden, announced today that it will start an assessment process for the potential deployment of more such capacities across the country.



## Swedish pumped hydro storage

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### Battery String-S224

- 1C Charge/Discharge
- Easy configuration and maintenance
- Power supply can be single battery string or parallel battery strings

### Hydro invests NOK 1.2 billion to build Illvatn pumped storage power

Hydro invests NOK 1.2 billion to build Illvatn pumped storage power plant Hydro has made the final investment decision for its largest hydropower development in over 20 years. ...

### List of pumped-storage hydroelectric power stations

List of pumped-storage hydroelectric power stations The following page lists all pumped-storage hydroelectric power stations that are larger than 1,000 MW in ...



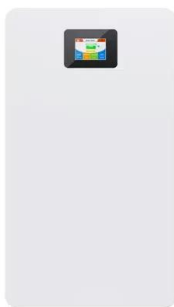
### Fortum begins feasibility study for new pumped storage plants in Sweden

Fortum has launched a two-year feasibility study to explore the potential for new pumped hydro storage plants in Sweden. The study will assess the commercial, technological, environmental, ...



### Pumped storage hydropower operation for supporting clean

In this Review, we discuss PSH operation in power system support. There are different modes of PSH operation, including open-loop versus closed-loop systems, and binary, ternary and ...



### Hydro power

Flexible hydro power is key in an energy system that increasingly consists of wind and solar power. Vattenfall has a century-long tradition of hydro power and continues to hold a leading position hydro ...

### Pumped Hydro Storage , SENS

En innovativ och hållbar lösning Pumped Hydro Storage lösning möjliggör el-lagring i stor skala med hjälp av en beprövad teknik kombinerat med den unika idén att ...



### Pumped Storage Hydropower

Serving as a dynamic energy storage solution, pumped storage hydro (PSH) involves two reservoirs at different elevations. During periods of low energy demand, surplus electricity is used to pump water ...



## What is Pump Storage Hydropower? - pumpedhydro

The obvious choice to fill this gap is Pumped Storage Hydropower offering the largest capacity of the energy storage technologies at the lowest cost per unit. Pumped Storage Hydropower ...



## Fortum explores new potential pumped hydro storage plants in Sweden

Finnish clean energy company Fortum has initiated a two-year feasibility study to explore prerequisites for new pumped hydro storage plants in Sweden. The company has said it will examine ...

## Pumped Hydro Energy Storage Is Having a Renaissance

A report by Madge and colleagues, published in October, scored 11 countries in terms of their suitability for pumped hydro and other long-term energy storage tech.



## Study on feasibility of small-scale pumped hydro storage

The objective of this thesis is the evaluation of technical and economic feasibility of small scale pumped hydro storage for energy storage. Since the results from this thesis shall be used to make business ...



## Pumped Hydro Storage Market Size, Share, and Growth Analysis, By ...

Global Pumped Hydro Storage Market size was valued at USD 54.68 Billion in 2024 and is poised to grow from USD 61.89 Billion in 2025 to USD 166.88 Billion by 2033, growing at a CAGR ...



### Fortum to explore more pumped hydro storage capacity in Sweden

Finnish energy firm Fortum Oyj (HEL:FORTUM), which operates three pumped hydro storage plants in Sweden, announced today that it will start an assessment process for the potential ...

### Optimization of sizing and operation of pumped hydro storage plants

Pumped hydro storage is the highest-capacity form of grid energy storage. In 2021, the total installed capacity of pumped-storage hydropower reached approximately 160 GW [11]. By 2020, ...



### Harnessing Potential: Scaling Pumped Storage ...

As we mark World Hydropower Day, it's clear that pumped storage hydropower is a cornerstone of our clean energy future. The insights shared at the Paris forum ...



### Pumped storage hydropower: Water batteries for solar ...

Pumped storage hydropower is the world's largest battery technology, accounting for over 94 per cent of installed energy storage capacity, well ahead of lithium



### EXPLORING PUMPED ENERGY STORAGE MARKET ...

The purpose of the study is to get answers if an energy storage application of PHS in abandoned mines in the SE3 area would result in a profitable competitive energy storage type.

### Sustainable Energy Solutions Sweden Holding AB

Sustainable Energy Solutions Sweden Holding AB (publ) (SENS), provides sustainable energy solutions enabling the transition to a fossil-free and CO2 neutral energy mix both locally and internationally. ...



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### Fortum explores new potential pumped hydro storage plants in Sweden

Finnish clean energy company Fortum has initiated a two-year feasibility study to explore prerequisites for new pumped hydro storage plants in Sweden.





## Hydropower and Pumped-Storage Hydropower in the European ...

Hydropower and Pumped-Storage Hydropower in the European Union STATUS REPORT ON TECHNOLOGY DEVELOPMENT, TRENDS, VALUE CHAINS & MARKETS EUR 31703 EN EUR 40067



## Pumped Storage Hydropower , Department of Energy

Pumped storage hydropower (PSH) is a type of hydroelectric energy storage. It is a configuration of two water reservoirs at different elevations that can generate ...

## Study on feasibility of small-scale pumped hydro storage

The Swedish energy agency also forecast huge growth in wind power. This creates a parallel growing demand for electricity storage solutions for both the short and long term. Pumped hydro currently ...



## Sweden's Hydropower Storage Landscape in 2025: Innovation Meets

Welcome to Sweden's hydropower storage scene in 2025 - where ancient glaciers meet cutting-edge tech. As Europe races toward carbon neutrality, Sweden's pumped storage hydropower ...



## Fortum explores new pumped hydro storage opportunities in Sweden

Fortum has initiated a two-year feasibility study to explore potential for new pumped hydro storage facilities in Sweden. The feasibility study will focus on three areas: Lekstjärnen, next to ...



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