



# Total investment cost of office building energy storage project in Finland

Is energy storage a viable solution for the Finnish energy system?

This development forebodes a significant transition in the Finnish energy system, requiring new flexibility mechanisms to cope with this large share of generation from variable renewable energy sources. Energy storage is one solution that can provide this flexibility and is therefore expected to grow.

What factors influence the development of energy storage activities in Finland?

Several parameters are influencing the development of energy storage activities in Finland, including increased VRES production capacities, prospects to import/export electricity, investment aid, legislation, the electricity and reserve markets and geographic circumstances.

What are some examples of GWh-scale borehole thermal energy storage in Finland?

Examples of larger GWh-scale borehole thermal energy storages built in Finland include one built at a logistics center in Sipoo and an underground parking lot in Turku. Normally, the depth of the boreholes for ground-source heating and in borehole thermal energy storages is a few hundred meters at most.

How does the Finnish TSO respond to the growing number of renewable installations?

The Finnish TSO, Fingrid, is continuously taking measures to respond to the fast-growing number of renewable installations. The power system is getting more complicated both from a technical and commercial perspective, with many large changes occurring simultaneously both in electricity production and consumption.

Can early projects improve flexibility in Finland's volatile power market?

The early projects are well-positioned to enhance flexibility in Finland's volatile power market. However, the limited size of the country's reserve market poses profitability challenges, driving developers to pursue ancillary services and diversify revenue streams. This webinar was held in October 2024, but the recordings are still available!

How do EU-funded hydrogen projects work in Finland?

There is a variety of EU-funded financial tools and incentives for hydrogen projects. The affordable low-carbon electricity grid, the high availability of new VRES, and the willingness to pay from local offtakers, are making Finland attractive for European renewable hydrogen projects.

Energy storage technologies, store energy either as electricity or heat/cold, so it can be used at a later time. With the growth in electric vehicle sales, battery storage costs have fallen rapidly ...

Ardian, a private investment house, in partnership with its operating platform eNordic, has announced it has made a Final Investment Decision (FID) to build Mertaniemi battery energy storage project, a 38.5 MW ...



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Business Finland will open a call for tax credits for large clean transition investment projects in renewable energy production and energy storage.

A review of the current status of energy storage in Fi This is an electronic reprint of the original article. This reprint may differ from the original in pagination and typographic detail.

Estimate of costs and schedule The project, valued at around 200 million euros, is financed by Vantaan Energia, but has already been awarded a 19-million-euro investment grant from Finland's Ministry of Economic Affairs and Employment. ...

It follows investment in Mertaniemi battery storage energy project in February 2024, expected to start operations in the second quarter of 2025. The battery storage project ...

The large-scale battery energy storage (BESS) project is located in the Southern Ostrobothnia region of Finland. Construction is expected to start during Q2 2025, with operations of the BESS commencing in 2026.

Finland has also made a noteworthy shift toward clean energy. More than 90 per cent of the energy it generates is already carbon neutral; yet, it has set its sights on doubling clean energy production to build a more robust and sustainable ...

Sustainable Energy Solutions Sweden Holding AB (SENS) has formed a joint venture (JV) with Mine Storage and Vimab for the (Underground Pumped Hydro Storage) ...

Nala Renewables, IFM Investors and Trafigura "s global renewable energy investment platform, is acquiring a 50MW battery energy storage (BESS) project in Finland from Fu-Gen. Nala said has agreed to ...

This work is part of GESATES project, an innovative initiative for groundwater heat pump application using aquifer thermal energy storage (ATES), funded by Business ...

The energy storage facility delivered by Merus Power to Lappeenranta, Finland, has been completed and put into market use on 15 May 2025. The energy storage facility is ...

Join us on October 24th for an expert-led discussion, where we will delve into the latest developments in Finland's energy storage market and explore the investment opportunities and challenges that lie ahead.

An ib vogt large-scale solar PV plant project. Image: ib vogt Developer ib vogt has sold rights to a large-scale 1-hour duration battery storage project in Finland, Europe, to investor Renewable Power Capital (RPC). The ...



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Space heating and cooling account for up to 40% of the energy used in commercial buildings.<sup>1</sup> Aligning this energy consumption with renewable energy generation through practical and ...

A company that will carry out a major investment aiming at a climate neutral economy in Finland with eligible investment costs of at least EUR 50 million is entitled to the investment credit (tax credit). The investment credit covers ...

In fact, while it will be global energy storage technology provider and system integrator Fluence and MW Storage's third BESS collaboration in Finland, it will be the fifth joint project the pair have worked on in total in ...

A cool climate, affordable clean energy, abundant water and excellent digital infrastructure - these are some of the reasons that Google, Microsoft and others have chosen Finland for their data centers.

Ardian, a private investment house, in partnership with its operating platform eNordic, has taken a final investment decision to build its second battery energy storage system (BESS) in Finland. This new 30 MW/30 ...

In order to estimate feasibility of technology in Finland, the case example could be modelled on an existing mine in Finland, which already is under an ongoing energy storage project - the ...

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The aim is to further promote the integration of renewables into the wider energy system which will stimulate energy storage growth in turn. Additionally, IRENA has conducted ...

Ardian, in partnership with its operating platform eNordic, has taken final investment decision to build Mertaniemi battery energy storage project, a 38.5MW one hour ...

The price of electricity in Finland is lowest in Europe and the usage of renewable energy is higher compared to majority of European countries which is attracting many ...

In Finland, there is broad recognition of the important role that nuclear energy will also play in the future. There is a willingness to build new capacity, yet the profitability of ...

The Finnish Government has finally introduced its new proposal (HE 207/2024) aimed at fostering large-scale industrial investments that support the transition to a climate ...

London, 23 January 2025 - Nala Renewables, a global power and renewable energy platform and independent



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power producer, has entered into an agreement to acquire a 50MW, ready-to-build battery energy storage (BESS) project in ...

Chinese group Sungrow, a specialist in photovoltaic inverters and energy storage systems, has entered into a partnership with Renewable Power Capital to supply its liquid-cooled PowerTitan 2.0 system for the Kalanti BESS energy storage ...

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