





Renewable energy has been on the rise in Finland; renewable energy accounts for 50.76% of total final energy consumption where bioenergy, hydropower and wind power were the major renewable production methods. As a result, the share of fossil fuels in the total energy supply dropped to 36%, which is significantly lower than the IEA average of 70%.





Energy-Storage.news" publisher Solar Media will host the 8th annual Energy Storage Summit EU in London, 22-23 February 2023. This year it is moving to a larger venue, bringing together Europe's leading investors, policymakers, developers, utilities, energy buyers and service providers all in one place. Visit the official site for more info.





Unique and productized energy storage systems and solutions for customer-specific needs, from design to commissioning. Portability offers completely new opportunities for the utilization of energy storage systems. Energy storage can be used temporarily for repair or construction work on the electricity network or, for example, to enable





With an installed capacity of 56.4 MW / 112.9 MWh, it is the largest battery in the Nordics. Yllikk?!? Power Reserve Two will provide significant support to the Finnish grid, ???



A new industrial-scale "sand battery" has been announced for Finland, packing 1 MW of power and a capacity of up to 100 MWh of thermal energy for use during those cold polar winters. The new

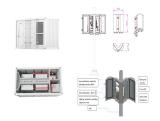


Olana Energy is a renewable energy company that develops and builds solar power plants and energy storage facilities. Our solutions facilitate reaching carbon neutrality and Finland's energy self-sufficiency goals. Investing in renewable energy generates regional employment and



unlocks new business prospects, particularly in energy storage





The DualFlow project will introduce a radically new energy conversion and storage concept. The breakthrough idea involves combining battery storage, hydrogen generation and production of useful chemicals into a single hybrid system using water-soluble redox mediators as energy transfer vectors. From Finland the funding organization is



The first commercial sand-based heat storage was built in Vatajankoski, an energy utility based in Western Finland. The full-scale utilisation of the storage will begin this year and it will provide heat for Vatajankoski's district heating network in Kankaanp??, Finland. The storage has 100 kW heating power and 8 MWh capacity.



The new 30 MW energy storage plant ??? with a storage capacity of 30 MWh ??? is located in Yllikk?!?, close to the city of Lappeenranta in Southeast Finland. Known as Yllikk?!? Power Reserve One, this first roll-out of lithium-ion stationary batteries in Finland underpins Neoen's leadership in battery-based grid services.



New electric boilers with a capacity of 120 megawatts and an extended thermal energy storage (TES) facility have just been put into operation in Vaskiluoto, Vaasa. This brings the total capacity of the electric boilers at the Vaasan Voima plant to 160 MW, which places the boilers in Vaasa among the most powerful in Finland in terms of capacity.



Finland has historically relied on energy imports from Russia. In 2021, Finland spent EUR 10.1 billion on energy imports, with EUR 5.3 billion going to imports from Russia. By share of spending, Russia accounted for 81% of Finland's crude oil net imports, 75% of its natural gas, 52% of its coal and 51% of its electricity net imports.



Suomen Voima has announced details of a new energy storage venture named "Noste" in the Kemij?rvi region of Finland. The ambitious project involves the construction of 1-3 small-scale pumped-storage hydropower plants in Northern Finland, aimed at bolstering the country's green



transition and enhancing energy balance. The estimated investment for this ???





The BESS will participate in Finland's ancillary service and wholesale energy markets, being located near an interconnection point with a high penetration of wind energy. The market is still predominantly ancillary services, as most wind-dominated renewables markets are, but projects have started to move to 2-hour durations recently.



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A "new energy cluster in Finland" plans to co-locate a 75 MW underground pumped storage hydroelectric (UPHS) facility and a 85 MW battery energy storage system (BESS) at a mine near the town of Pyh?j?rvi in central ???



Construction has begun on a 30MW battery energy storage system (BESS) in Finland, developed by Glennmont Partners, local IPP Ilmatar, and deployed by ESS firm Alfen. A 1,800MWh wind-plus-storage project being pursued by developer Squadron Energy in New South Wales, Australia, has been recommended for approval by the NSW Independent ???



In terms of other drivers for energy storage, Finland is targeting carbon neutrality by 2035, while its annual electricity demand is projected to increase 20% by 2030, reaching 1TWh by that time. Storm disruption to power supply "demonstrates need for long-duration energy storage" in New South Wales, Australia.





STOREtrack is Europe's leading database of storage projects, helping you keep your finger on the pulse of the European energy storage markets. The database tracks the deployment of storage across 28 countries, detailing the companies involved in each project and their role, as well as project technologies, milestones, segments and technical



The IEA takes a positive view of Finland's energy policy and the achievements of recent years, which include significant construction of wind power, development of heat storage, deployment of new nuclear power, progress made in the final disposal of nuclear waste, and the enshrining in law of the 2035 climate neutrality target.



The concept of using heated sand for energy storage isn"t new, but our approach to commercializing it on a large scale and improving efficiency is innovative. Can I buy a Sand Battery for my home? Not yet. We currently focus on larger industrial and commercial applications and do not have products designed for individual homes. Subscribe to



Elisa was a winner at the 2023 Energy Storage Awards, hosted by our publisher Solar Media in September last year, in the category of Distributed Energy Storage Project of the Year. ancillary services, behind-the-meter, europe, finland, mobile telecoms, nordic, sodium-ion, telecommunications, telecoms, virtual power plant, vpp



The Cactos battery energy storage system changes the way you buy and use energy. Tesla EV battery packs repurposed into energy storage systems in Finland and California. Finnish start-up is turning Tesla EV batteries into storage systems. Read more. Tech. Breathing new life into spent Tesla EV batteries, Cactos raises ???2.5 million



Energy-Storage.news recently heard from optimiser Capalo AI that the sector in Finland was moving to 2-hours due to changing revenues and regulations, exemplified by a 2-hour, 112.9MWh project which IPP Neoen started building in January, Finland's largest.







The energy equivalent of as much as 1.3 million electric car batteries and could heat a medium-sized Finnish city all year round. A seasonal thermal energy storage will be built in Vantaa, which is Finland's fourth largest city neighboring the capital of Helsinki.





Finnish companies Polar Night Energy and Vatajankoski have built the world's first operational "sand battery", which provides a low-cost and low-emissions way to store ???





Neoen, one of the world's leading independent producers of exclusively renewable energy, has announced the construction in Finland of the Yllikk?!? Power Reserve One, a new 30 MW battery energy storage plant with a storage capacity of 30 MWh. The facility will be located close to Lappeenranta in the south-east of the country.





- This is our first battery energy storage project in Finland and we are happy to sell it to L& G NTR Clean Power Fund. The project will make a valuable contribution to stabilize the grid as the demands shift following a rapid electrification and transition to a fossil free-energy system, says Paul Stormoen, CEO, OX2. - With longstanding experience and expertise in developing and ???