



## Norwegian energy storage projects

Is stationary energy storage a good idea in Norway? Electric cars now account for 79 per cent of new cars sold in Norway, and the MS Medstrøm was recently launched as the world's first electric fast ferry. In a global report on lithium-ion batteries, Norway ranked first in sustainability. These are impressive records. Even so, stationary energy storage is beginning to steal the limelight. Is Norsk Hydro planning a 84GWh pumped storage project? Norsk Hydro, a leading Norwegian aluminum and renewable energy company, has announced plans for an 84GWh pumped storage project in Luster Municipality, Norway. The Illvatn project, estimated to cost NOK 1.2 billion (approximately \$113 million), aims to commence construction in 2017, with a target for full operational status by 2020. What projects are under development in Norway? Another project under development in Norway is a new power plant at Torolmen, in the Ørskog municipality, with an estimated annual production of around 30 GWh. The total investment for this project could reach NOK 290 million (US\$27.4 million), with potential construction starting as early as 2017. Is Norsk Hydro planning a new pumped storage power plant? In April 2017, the Norwegian Ministry of Energy granted Norsk Hydro a concession to develop the Illvatn pumped storage power plant. An application for a plan change is being processed by the Norwegian Water Resources and Energy Directorate (NVE). Does Norway have a battery market? Today Norway has not one, but two huge battery markets. "There are two market drivers for batteries: EVs and stationary energy storage. Energy storage is coming on strong now. It's the key to turning intermittent wind and solar into a stable energy source," explains Pål Runde, Head of Battery Norway. What is the largest Climate Initiative in Norwegian industrial history? The largest climate initiative in Norwegian industrial history. Longship involves government support for developing the Northern Lights transport and storage infrastructure. Firstly, Heidelberg Materials' CO<sub>2</sub> capture project at the cement factory in Brevik. The Norwegian government has made room in its budget for a multimillion-dollar investment destined to be injected into its carbon capture and storage (CCS) project, described as a full-scale CO<sub>2</sub> capture, transport, and storage development in line with the country's international climate agreements. Hydro investing in Illvatn pumped storage Sep 25, 2017; Norsk Hydro plans to build a new pumped storage power plant in Luster Municipality, Norway. With construction starting in 2017 and operations beginning in 2020, the total investment for the project is 1.2 billion NOK. Norway's maturing battery industry embraces green energy storage May 8, 2017; Norway's maturing battery industry embraces green energy storage "We are seeing a shift in focus from EV batteries to energy storage for other purposes. Most batteries being Northern Lights: a CO<sub>2</sub> transport and storage project to 6 days ago; Northern Lights is also in advanced discussions with several other major European industrial customers to commercialize the remaining storage capacity. The Northern Lights 84 GWh pumped storage project planned for Sep 25, 2017; Norsk Hydro, a Norwegian aluminum and renewable energy company, is planning a 84 GWh pumped storage project in Luster Municipality, Norway. The Illvatn project, with an estimated price tag of 1.2 billion NOK. Energy Transition Norway 2 days ago; Energy Transition Norway's research and development projects are based on



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these focus areas: renewable energy, carbon capture and storage, increased oil recovery and decommissioning. Our biggest Energy systems for the future: Norway's Oct 29, &#xA0;&#xA0;&#xA0;Arva AS has ordered three mtu EnergyPack battery storage systems to maximize energy utilization and stabilize power supply at Senjahopen and Hus&#xA4;y. Oslo Grid Energy Storage Project: Powering Norway's Green May 21, &#xA0;&#xA0;&#xA0;Ever wondered how a city known for fjords and northern lights is quietly becoming a global energy storage pioneer? The Oslo Grid Energy Storage Project is rewriting the rules Norsk Hydro Unveils Ambitious 84GWh Sep 29, &#xA0;&#xA0;&#xA0;Norsk Hydro, a leading Norwegian aluminum and renewable energy company, has announced plans for an 84GWh pumped storage project in Luster Municipality, Norway. The Illvatn project, estimated to The Longship CCS project in Norway | Learn The Longship CCS Project Longship is Europe's first complete value chain for the capture, transport, and storage of industrial CO2 emissions. The largest climate initiative in Norwegian industrial history.Norway's \$2.8 billion full-scale carbon capture transport and storage Oct 8, &#xA0;&#xA0;&#xA0;The Norwegian government has made room in its budget for a multimillion-dollar investment destined to be injected into its carbon capture and storage (CCS) project, Hydro investing in Illvatn pumped storage plant in LusterSep 25, &#xA0;&#xA0;&#xA0;Hydro plans to build a new pumped storage power plant in Luster Municipality, Norway. With construction starting in and operations beginning in /, the total 84 GWh pumped storage project planned for NorwaySep 25, &#xA0;&#xA0;&#xA0;Norsk Hydro, a Norwegian aluminum and renewable energy company, is planning a 84 GWh pumped storage project in Luster Municipality, Norway. The Illvatn project, with an Energy Transition Norway 2 days ago&#xA0;&#xA0;&#xA0;Energy Transition Norway's research and development projects are based on these focus areas: renewable energy, carbon capture and storage, increased oil recovery and Energy systems for the future: Norway's largest battery energy storage Oct 29, &#xA0;&#xA0;&#xA0;Arva AS has ordered three mtu EnergyPack battery storage systems to maximize energy utilization and stabilize power supply at Senjahopen and Hus&#xA4;y. Norsk Hydro Unveils Ambitious 84GWh Pumped Storage Project in NorwaySep 29, &#xA0;&#xA0;&#xA0;Norsk Hydro, a leading Norwegian aluminum and renewable energy company, has announced plans for an 84GWh pumped storage project in Luster Municipality, Norway. The The Longship CCS project in Norway | Learn more about the The Longship CCS Project Longship is Europe's first complete value chain for the capture, transport, and storage of industrial CO2 emissions. The largest climate initiative in Norwegian Norway's \$2.8 billion full-scale carbon capture transport and storage Oct 8, &#xA0;&#xA0;&#xA0;The Norwegian government has made room in its budget for a multimillion-dollar investment destined to be injected into its carbon capture and storage (CCS) project, The Longship CCS project in Norway | Learn more about the The Longship CCS Project Longship is Europe's first complete value chain for the capture, transport, and storage of industrial CO2 emissions. The largest climate initiative in Norwegian



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