

Anatomy of electric vehicle fast charging: Peak shaving through a battery energy storage--A case study from Oslo. Antti Rautiainen, Antti Rautiainen. Unit of Electrical Engineering, Tampere University, Tampere, Finland. ... The analysis using the real data helps in the electrical modelling of a fast charging site for further research ...

Around forty years ago, Norway started major efforts into research and development on carbon capture and storage technologies. After a mix of successes and failures, a renewed commitment to transport and storage of CO<sub>2</sub> --especially offshore--promises to make Norway a unique laboratory for decarbonization, despite continuing exploitation of oil ...

The storage of hydrogen using metal hydrides shows great promise due to the ability to store and deliver energy on demand while achieving higher volumetric density and safer storage conditions ...

Ystein Ulleberg works as a Principal Scientist at the Renewable Energy Systems Department at Institute for Energy Technology (IFE) in Norway and as an Associate Professor at the Department of ...

The main purpose of this paper is to present a robust forward model for simulating extraction and storage of thermal energy in an aquifer. The model is a 1. Skip to Main Content ... Numerical modeling of aquifer thermal energy efficiency under regional groundwater flow: a case study at Oslo Airport. Hydrology Research 1 October 2015; 46 (5 ...

This opens for a clean energy supply platform and a renewable offshore future for the country. About Hystorm Research Group. Objectives. The multi-disciplinary research team will perform fundamental studies to assess the feasibility of using depleted hydrocarbon reservoirs on the Norwegian Continental Shelf as storage sites for high-purity ...

"When we succeed in carbon capture and storage, it may have major impact far beyond Norway. If we can do our offshore activity with 50 percent reduction of emissions, the technology can have an impact far beyond us", said Prime Minister Stoltenberg.

Energi21 sets goals and advises the authorities and the industry on the Norwegian research and technology development efforts on renewable energy, energy efficiency and carbon capture and storage (CCS). Commissioned by the Ministry of Energy (ME), the strategy has been developed by the industry, research institutions and relevant government ...

Research. Research News. Papers and Reports. ... Aker Solutions to Begin 5 Month Test at Klemetsrud Waste to Energy Facility: VIDEO: World First Carbon Capture & Storage at Oslo Waste to Energy Plant . Jan 28,

2016 Reading time: about 3 minutes A five month test program to capture carbon emissions from the municipality operated Klemetsrud ...

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil fuel-based power generation with power generation from wind and solar resources is a key strategy for decarbonizing electricity. Storage enables electricity systems to remain in... Read more

After setting impressive EV battery records, Norway has turned its focus to an even larger market: batteries for stationary energy storage - a market expected to reach EUR 57 billion by 2030. ...

The most common method to enhance the electrical conductivity of UIO-66 is to incorporate conductive polymers [3,[10], [11], [12], [13]]. Zhang and co-workers combined polypyrrole and UIO-66 on fabrics as the energy storage electrode for SC [10] Shao and co-workers deposited polyaniline in UiO-66 to increases the electrical conductivity and energy ...

The Centres for Environment-friendly Energy Research (FME) carry out long-term research targeted towards renewable energy, energy efficiency, carbon capture and storage (CCS) and social sciences aspects of energy research. ... The University of Oslo is the host institution and coordinator of one Centre for Environment-friendly Energy Research ...

The main purpose of this paper is to present a robust forward model for simulating extraction and storage of thermal energy in an aquifer. The model is a local three-dimensional finite element ...

The Canadian Embassey in Oslo is hosting the event &quot;Energy Storage: The holy grail of renewable energy&quot; in Oslo, at Forskningsparkens Conference Center 29th April 2014. 10:00-10:25 Registration with refreshments...

The cylinder contains a patented solution of solid hydrogen, which reportedly has more efficient storage capabilities than batteries or liquid H<sub>2</sub>. Presently, the copper cylinder energy storage device is no larger than a chair and has been built in the basement of an accelerator in the Oslo Science Park.

The use of thermal energy storage (TES) allows to cleverly exploit clean energy resources, decrease the energy consumption, and increase the efficiency of energy systems. ... Where is Thermal Energy Storage (TES) research going? - a bibliometric analysis. Sol Energy (2019), 10.1016/j.solener.2019.01.050. 0-1. Google Scholar [4]

When operational in 2026, the plant will capture up to 400 000 tonnes of CO<sub>2</sub> every year, cutting Oslo's emissions with 17%. After the capture process, Celsio will further demonstrate emission-free transport of liquid CO<sub>2</sub> using electrical tank trucks from the plant to port, where the CO<sub>2</sub> will be shipped out for permanent geological storage.

In this paper, we analyze and quantify functional value streams of energy storage under different forms (state in which energy is stored) and network location (e.g., transmission or distribution ...

The target is to protect and increase this natural form of carbon storage in Oslo, ... 10% reduction in total energy consumption in Oslo by 2030, compared with 2009. The target for energy relates to energy consumption for heating buildings, transport, etc. Electric cars are more efficient than cars running on combustion engines, so the ...

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Founded in 2009, Corvus Energy provides purpose-engineered energy storage solutions and hydrogen fuel cell systems for the ocean space. Since the start in 2009, Corvus Energy has been leading the way in how battery technology is used.

Semantic Scholar extracted view of &quot;Improving energy storage ability of Universitetet i Oslo-66 as active material of supercapacitor using carbonization and acid treatment&quot; by Y. Sung et al. ... @article{Sung2021ImprovingES, title={Improving energy storage ability of Universitetet i Oslo-66 as active material of supercapacitor using ...

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