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The world is in high demand for professionals to tackle it, both in academia and industry. As a student in the Master's Programme in Physics specialising in Energy Physics, you will get prepared by learning energy conversion processes on their physics, such as fluid mechanics, thermodynamics, electromagnetism and nuclear physics.

Sustainable Energy Storage and Conversion The foundation of this research is a material platform that we term conducting redox polymers (CRPs). CRPs are conducting polymers that have been decorated with redox active functional groups and they provide an attractive alternative for both catalysis and electrical energy storage.

Vattenfall has selected Alfen to deliver a battery energy storage system of 20 MWh in the university town Uppsala in Sweden, also the fourth largest city in Sweden. This is the third large-scale energy storage system that Alfen will deliver to Vattenfall. The energy storage system will be connected to the power grid of distribution grid operator Vattenfall Eldistribution.

Climate-smart battery for sustainable energy storage. 2020-04-01. The new battery looks like a standard button cell battery but on the inside, it consists of organic materials and is based on protons rather than lithium ions. ... Researchers at Uppsala University have therefore developed an all-organic proton battery that can be charged in a ...

A 5MW / 20MWh energy storage system built around the batteries BMW uses in its i3 electric vehicles (EVs) will help integrate renewable energy into the electric grid in Uppsala, Sweden. Utility company Vattenfall, owned by the Swedish government, has awarded the contract to Dutch system integrator Alfen build the storage system, which will ...

Energy storage technologies for electric vehicles and the electric grid (batteries, fuel cells, super capacitors, flywheel and hydrogen). Charging and discharging of energy storage units (power electronics and control systems). ... Uppsala Pace of study 33% Teaching form On-campus Instructional time Daytime Study period 4 November 2024-19 ...

The intriguing charge transfer events occurring in the polymer battery material are investigated using in-situ electrochemical and spectroscopic techniques to unravel the mechanism of charge transport and storage in organic ...

The Kinetic Energy Storage System (KESS) has been found a promising solution for facilitating the introduction of electric vehicles and/or integration of intermittent sources of electric energy in the grid. ... Dansmästaren is the largest parking facility in Uppsala and simultaneously functions as a test bed for developing, test-running and ...

Energy storage is key for transforming into a climate neutral society and a rapidly growing industry. Join the Master"s Programme in Battery Technology and Energy Storage at Uppsala ...

The focus of this study is the recently connected battery energy storage system (BESS) in Uppsala. It is of great interest and importance to investigate how the power quality might be affected in the area, and voltage fluctuations have ...

The size of the energy storage as well as the maximum power outtake from the grid is optimized in order to minimize the total annual cost of the connection. The assessment of the distribution system shows that implementing an electric bus system based on opportunity charging in Västerås does not cause over-capacity in the 10 kV grid during ...

this already is Uppsala. The distribution system operator, Vattenfall Distribution has initiated an R& D project that connects a 5 MW/20 MWh Li-ion battery energy storage system to ...

The Master Programme in Battery Technology and Energy Storage is established at Uppsala University according to a decision by the Vice-Chancellor (UFV 2021/1010). Entry requirements. Academic requirements. A Bachelor"s degree, equivalent to a Swedish Kandidatexamen, from an internationally recognised university.

Battery Technology and Energy Storage ; About. Energy storage is key for transforming into a climate neutral society and a rapidly growing industry. Join the Master"s Programme in Battery Technology and Energy Storage at Uppsala University to understand the fundamentals of battery materials, cells and systems, and how this technology impacts ...

Uppsala Municipality is growing rapidly, increasing the demand for electricity. In order to meet the increased demand and enable Uppsala"s continued expansion, Vattenfall Elanläggningar, a part of Vattenfall Network Solutions, is constructing the Nordic region"s largest battery storage facility, with an area equivalent to about half a football pitch and the capacity to ...

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