

Title: Swiss energy storage period preparation

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A variety of storage technologies will balance out short- and long-term energy fluctuations foreseen at an increased share of inter-mittent renewable energy sources and strengthen the resilience of the ...

Energy storage is rapidly become more and more relevant due to the increasing renewable energy fraction in the grid, the rise of photovoltaics and the increase in electric cars.

SwissSTES aims to reduce Switzerland's dependency on fossil fuels by pioneering seasonal thermal energy storage (STES) to become a net-zero carbon society. An interdisciplinary consortium ...

Seasonal Thermal Energy Storage (STES) systems offer a unique opportunity to balance seasonal mismatches between renewable energy supply and heat demand--particularly in temperate regions ...

How do you bring surplus energy from summer into winter? This is one of the central questions with regard to how we will ensure our energy supply in the future in a sustainable and at ...

Based on current scientific knowledge, leading Swiss researchers consider that where large amounts of energy need to be stored for the medium to long-term, technologies such as ...

Through technological innovation, regulatory adaptation, and stakeholder engagement, SwissSTES aims to establish a robust and scalable framework for seasonal thermal energy storage, contributing ...

SwissSTES addresses this issue by taking a holistic approach. It systematically explores STES opportunities such as available and unused cavities, aquifers or underground reservoirs and delivers ...

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