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# Chemical energy storage in large energy storage power stations





## Overview

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What is chemical energy storage?

Chemical-energy storage is the backbone of today's conventional energy supply. Solid (wood and coal), liquid (mineral oil), and gaseous (natural gas) energy carriers are 'energy storages' themselves, and are stored using different technologies.

Why are large-scale energy storage technologies important?

Learn more. The rapid evolution of renewable energy sources and the increasing demand for sustainable power systems have necessitated the development of efficient and reliable large-scale energy storage technologies.

What's new in large-scale energy storage?

This special issue is dedicated to the latest research and developments in the field of large-scale energy storage, focusing on innovative technologies, performance optimisation, safety enhancements, and predictive maintenance strategies that are crucial for the advancement of power systems.

How important is chemical-energy storage in energy transition?

In the course of energy transition, chemical-energy storage will be of significant importance, mainly as long-term storage for the power sector, but also in the form of combustibles and fuels for transport and heat.



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[Chemical Energy Storage , SpringerLink](#)

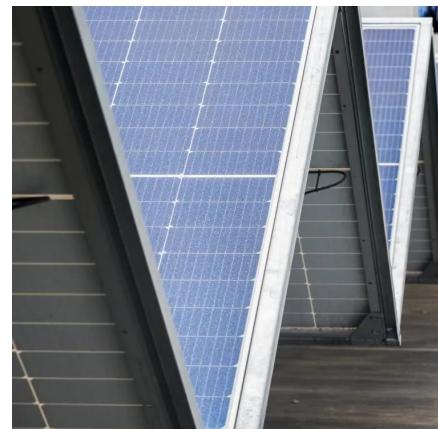
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In the context of increasing sector coupling, the conversion of electrical energy into chemical energy plays a crucial role. Fraunhofer researchers are working, for instance, on corresponding power-to-gas processes that ...

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