

SarajevoThe relationship between energy storage and energy





Overview

Do energy storage technologies provide flexibility in energy systems with renewable sources?

Storage technologies are a promising option to provide the power system with the flexibility required when intermittent renewables are present in the electricity generation mix. This paper focuses on the role of electricity storage in energy systems with high shares of renewable sources.

How can storage technology help the power sector?

The power sector needs to ensure a rapid transition towards a low-carbon energy system to avoid the dangerous consequences of greenhouse gas emissions. Storage technologies are a promising option to provide the power system with the flexibility required when intermittent renewables are present in the electricity generation mix.

Can variable renewables and energy storage provide cost-competitive power with fossil fuels?

Combining variable renewables with energy storage is widely recognized as a feasible solution for providing cost-competitive power with fossil fuels as the interaction between energy storage and renewables could be complementary [3, 4].

What is the role of electricity storage in the renewable transition?

Conclusion and policy implications The role of electricity storage in the renewable transition is essential for achieving the decarbonisation of the power system. In this paper, we present a model comparison approach for four models (G E N e S Y S - M O D, M U S E, N A T E M, and u r b s - M X).



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