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Title: Is energy storage an energy project

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What is the role of energy storage in the energy transition?

This review discusses the role of energy storage in the energy transition and the blue economy, focusing on technological development, challenges, and directions. Effective storage is vital for balancing intermittent renewable energy sources like wind, solar, and marine energy with the power grid.

What is energy storage?

Energy storage is the capturing and holding of energy in reserve for later use. Energy storage solutions for electricity generation include pumped-hydro storage, batteries, flywheels, compressed-air energy storage, hydrogen storage and thermal energy storage components.

Why do we need energy storage?

As the cost of solar and wind power has in many places dropped below fossil fuels, the need for cheap and abundant energy storage has become a key challenge for building an energy system that does not emit greenhouse gases or contribute to climate change.

Is energy storage a major challenge in the energy transition?

Transitioning to renewable energy is vital to achieving decarbonization at the global level, but energy storage is still a major challenge. This review discusses the role of energy storage in the energy transition and the blue economy, focusing on technological development, challenges, and directions.

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