

# **Berlin Energy Storage Power Generation**





## Overview

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Why should Germany use energy storage systems?

Germany is under increasing pressure to rapidly decarbonize its electricity system, while ensuring a secure and affordable electricity supply. In this context, energy storage systems (ESSs) can play a crucial role in enabling a high share of variable renewable electricity generation.

Can pumped hydro storage be a key component of Germany's electricity system?

The study by Keles and Yilmaz , for instance, considers only the option of pumped hydro storage (PHS), as it is already a key component of the German electricity system. Others consider multiple technology options, with Bartholdsen et al. , for instance, considering also lithium-ion batteries and hydrogen storage (via power-to-gas).

Does Germany have a battery storage capacity limit?

A similar observation cannot be made for battery storage, which is installed throughout all of Germany. In some states, battery storage even reaches its imposed upper capacity limit already by 2040 (e.g. BE or SL ). Fig. 6. Total installed storage power in S0\_base per technology across the modeling horizon for BY, NI, NW and DE.

How is Germany transforming the energy system?

In addition to the complexity of transforming the German electricity system, climate-related targets and policies have been tightened substantially. The newest amendment of the Renewable Energy Sources law requires renewable energy sources to cover at least 80% of the annual electricity consumption in 2030.



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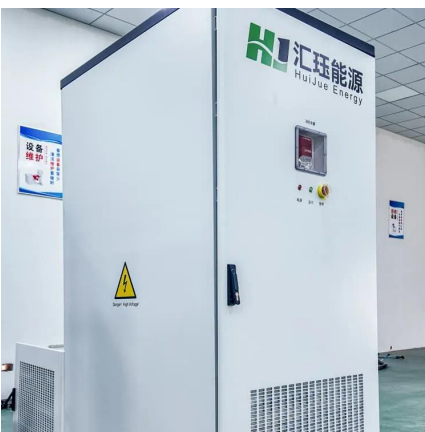


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