

## Kongres Container

# Danish new energy storage ratio standard



## Overview

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The present whitebook aims to inform the reader about status, needs and perspectives for energy storage technologies, and set out milestones to guide decision makers, industry and research communities on how to trigger storage as an instrument to achieve the climate goals. 4. English and Danish.

Electric energy storage facilities, such as batteries, must comply with technical requirements to be connected to the distribution network. This is to ensure a high quality in the delivery of electricity to all customers. Facilities with electric energy storage (including hybrid facilities) must.

Elsystemansvar A/S (subsidiary of Energinet) has asked Ea Energy Analyses to analyse the benefits and main drivers for the installation of storage units in the Danish power system. This will supplement the technology aspects in the recent Technology Catalogue on Energy Storage (DEA and Energinet).

is report has been produced as part of the project "Facilitating energy storage to allow high penetration of intermittent renewable energy", stoRE. The . ation of variable renewable energies in the European grid by 2020 and beyond, by unblocking the potential for energy storage technology.

Danish Center for Energy Storage, DaCES, is a partnership that covers the entire value chain from research and innovation to industry and export in the field of energy storage and conversion. The ambition of DaCES is to strengthen cooperation, sharing of knowledge and establishment of new.

The facility in Aalborg can store 18 MWh of heat and is expected to provide up to 5,000 MWh annually, equivalent to the consumption of about 275 single-family homes. Photo: Jesper Voldgaard The Danish Center for Energy Storage envisions Denmark leading in energy storage, including system. Can energy storage units be installed in the Danish power system?

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What is Danish Center for energy storage?

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How can Denmark develop a new energy technology?

If Denmark shall succeed in the development and implementation of new energy technologies such as energy storage and conversion, a broad knowledge of political and legal frameworks, economic models, the role of civil society as well as new forms of organization and collaboration across sectors and disciplines is necessary.

Which storage demonstration projects have been carried out in Denmark?

As reported in Table 1, two significant storage demonstration projects were carried out in Denmark in the past years. The batteries installed in Nordhavn (Copenhagen) were tested mainly for the provision of primary regulation (TSO service) and peak shaving (DSO service).

What are the costs derived from the Danish technology catalogue?

Cost figures are derived from the Danish technology catalogue (DEA and Energinet, 2019); operation and maintenance costs are neglected as their effect is limited. The figures do not include costs and revenues from arbitrage activities (i.e. from the charging pattern in the proposed strategy).

How is Energinet regulated in Denmark?

In Denmark, Energinet ensures the international obligation to have at least one top-down (i.e. through interconnectors) and one bottom-up (i.e. a unit) restoration system per market area. The market is regulated through bilateral agreements, which shall encompass the requirements in Table 4.

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