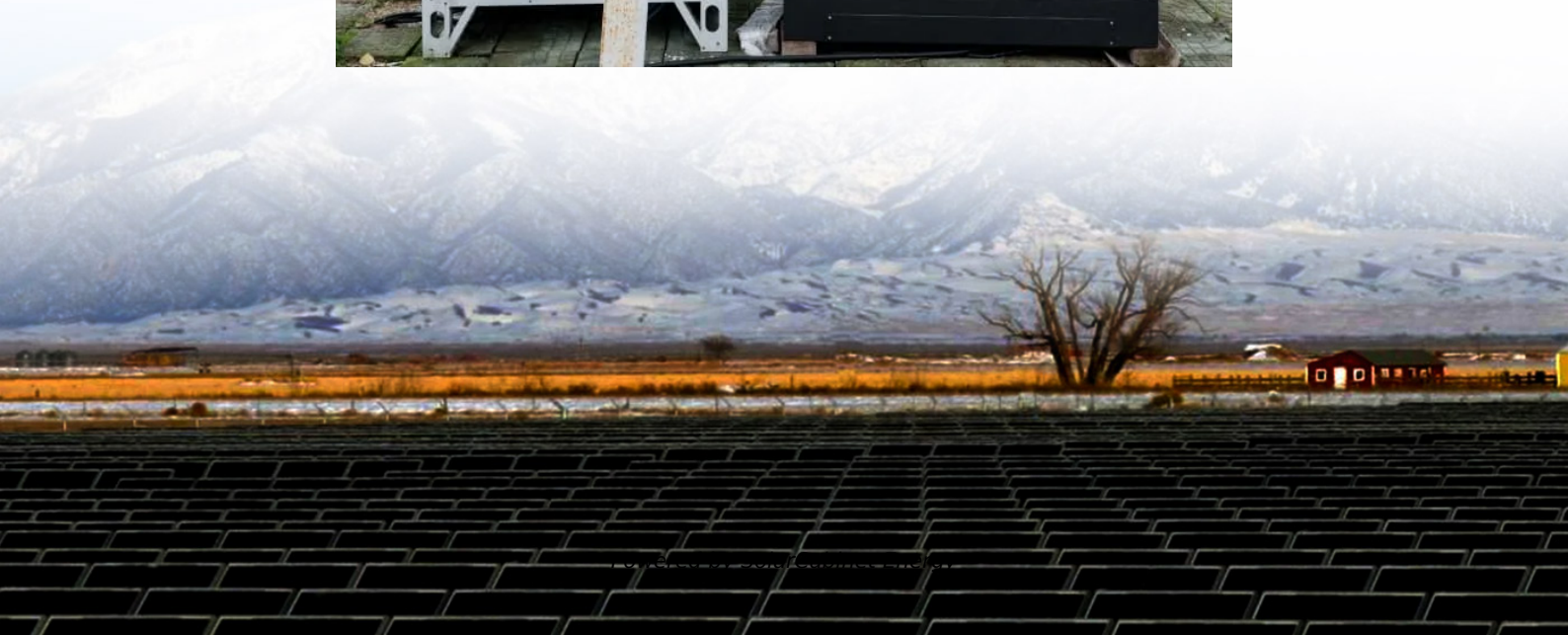


Danish new energy storage ratio standard





Overview

Can energy storage units be installed in the Danish power system?

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, 2019).

What does the Danish Energy Agency do?

Therefore, The Danish Energy Agency produces statistics, key data, projections, analyses, and technology catalogues. The comprehensive knowledge serves as the foundation and starting point for future energy policies and for monitoring the effects of current energy policies.

How is Denmark balancing the energy grid?

Denmark is at the forefront of integrating renewable energy into its power system. Wind and solar power are becoming increasingly dominant in its energy mix. Coal and natural gas usage are declining, while heat pumps are increasingly popular for residential heating. This shift creates challenges when it comes to balancing the grid.

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).

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.



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).



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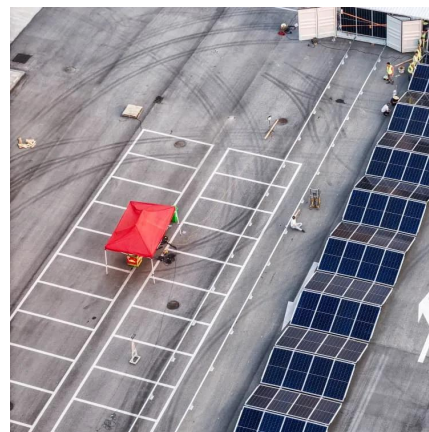


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As of 2024, Denmark's battery energy storage systems (BESS) have reached 164 MWh capacity [1], proving that big solutions can come in small packages. Let's unpack what makes this ...

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