



SolarGrid Energy Solutions

Aarhus Denmark introduces new energy storage policy



Overview

How much CO2 does Aarhus emit?

In 2022, the energy sector in Aarhus emitted 698,000 metric tons CO2e. Today, about 70% of Aarhus' energy needs are met by sustainable energy sources, including biomass, which covers 69% of the municipality's energy needs.

Will Aarhus be a 'green district heating of the future'?

Aarhus is committed to taking the next steps toward an even greener energy supply system, and with 'the green district heating of the future', we can phase out fossil fuels and get down to 15% biomass in 2030.

Does the city of Aarhus have a goal of self-sufficiency?

In addition, power from wind turbines and solar energy – associated with the City of Aarhus' entities – outside of the municipal boundaries can be included in the City of Aarhus' goal of greater self-sufficiency.

How much energy will Aarhus produce in 2030?

It is estimated that the combination of 1,600 hectares of solar energy and 10 new wind turbines combined would lead to a reduction in CO2 emissions of 12,000 metric tons in 2030 and generate approx. 1,450 GWh annually, which corresponds to about 50% of Aarhus' projected electricity consumption in 2030.

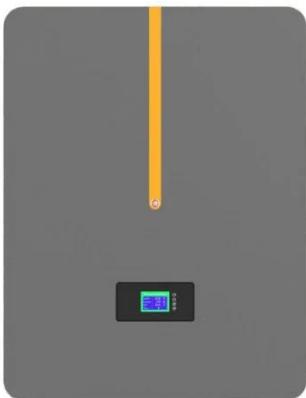
Can Aarhus achieve a green transition?

With the initiatives already agreed on and the new national framework conditions, the City of Aarhus will fall short of achieving zero emissions (Scope 1 and 2) within municipal borders in 2030 by about 846,000 metric tons of CO2. What this means is that in order to achieve a successful green transition, additional political action is necessary.

When will Aarhus start supplying geothermal heat?

The objective is to begin supplying geothermal heat to residents of Aarhus in the fall of 2025. In the long-term, the objective is a heating system in Aarhus that does not use any biomass that is not captured using CCS, with the exception of necessary waste incineration.

Aarhus Denmark introduces new energy storage policy



Welcome On Board Aarhus University

Mar 23, 2020 · New battery chemistries can lead to a new phase of higher degree of integration of renewable energy, also couples of other energy networks ...

Ørsted: Denmark's Global Renewable Energy ...

Jan 30, 2025 · Ørsted, headquartered in Fredericia, Denmark, is a global leader in renewable energy and one of the most sustainable energy companies in the ...



Präsentation

Sep 15, 2024 · Priorities (EUDP): More green electricity, energy efficiency, transport of people and light goods, heavy transport and PtX, heat and thermal storages, green process electricity, ...

Ørsted struggles to sell the idea of a new biomass plant in Aarhus

Mar 28, 2025 · The idea of a new biomass-fired CHP plant in Aarhus, Denmark, has been met with resistance. The mayor of Aarhus rejects new biomass plants. Concito also advises ...



2MW / 5MWh
Customizable

review of Danish integrated multi-energy system flexibility options ...

Nov 24, 2017 · In 2016, a 9-MW offshore turbine was tested at the Danish national test center in Østerild for large wind turbines. The 9-MW turbine produced 216 MWh in 24 h, a new world ...

Aarhus' Pilot City Activity: CO-SHaping Areas in ...

The CO-SHAPE pilot project is situated in the City of Aarhus (AAK), Denmark's second-largest city, aiming to address pressing challenges related to urban ...



25 years of energy storage in denmark

9 , The value of electricity storage, An outlook on services and market opportunities in the Danish and international electricity markets -

02-06-2020 3 Storage technologies This Chapter ...



Power traders tackle renewables puzzle in Danish 'Silicon ...

Jul 23, 2019 · Far from the sprawling financial hubs of London or Frankfurt, high-tech traders in the Danish university city of Aarhus are driving rapid change in European power markets, ...



Advanced Energy Storage Conference

Energy storage is gaining increasing societal relevance as fluctuating solar and wind energy are increasingly required to meet Denmark's energy needs. ...

Urban sustainability , Read about inspiring urban ...

Danish cities can inspire Denmark's reputation for providing innovative and sustainable solutions is strong all over

the world. And Copenhagen is not the ...



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Mar 15, 2023 · Therefore, it is considerable to study and analyze the current domestic policies and effectively rectify their imbalance and irrationality. This ...

INNO-CCUS - Carbon Capture, Storage, and ...

The INNO-CCUS partnership works to help Denmark achieve its climate goals by ensuring effective carbon capture and storage while developing methods to ...



Denmark's largest battery

Apr 29, 2021 · A new innovation project, funded by the Energy Technology Development and Demonstration Program (EUDP) under the Danish Energy ...



Go Green with Aarhus

Go Green with Aarhus Climate change is one of the biggest challenges the world has ever faced. That is why Denmark has set a national target of being ...



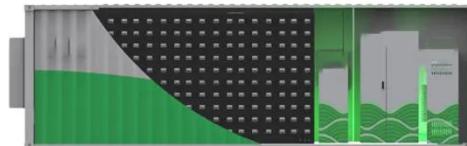
Straw-fired combined heat and power plant in ...

Jun 17, 2022 · We tell why. AffaldVarme Aarhus, the municipality-owned energy utility for Aarhus, Denmark's second-largest city, put into operation a new 110 ...



How Battery Storage is Powering Denmark's ...

Dec 3, 2024 · An ongoing super battery project in Denmark is a case study for using battery storage as a way to implement aggressive decarbonization ...



Analysis and suggestions on new energy storage policy

Finally, combining the actual policies and specific applications, the shortcomings of policy formulation are found, and suggestions are put forward for the current commercialization ...

Climate-neutral Aarhus 2030

Jun 18, 2024 · With the formation of Aarhus Ejendomme, it is now possible to carry out additional energy-efficiency retrofits on an even larger scale and contribute to the implementation of the

...



How Battery Storage is Powering Denmark's ...

Dec 3, 2024 · By the middle of 2025, the battery parks will be able to store 36 MW / 72 MWh of electricity at any time - the equivalent energy of powering 6,000 ...



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Apr 26, 2023 · ????: ????, ??, ????

Abstract: The development of energy storage technologies is still in its early stages, and a series of policies ...



Smart grid and energy storage: Policy recommendations

Feb 1, 2018 · The authors support defining energy storage as a distinct asset class within the electric grid system, supported with effective regulatory and financial policies for development ...

The city of Aarhus presents new climate strategy

May 3, 2024 · Reaffirming Aarhus goal to achieve climate neutrality by 2030, a broad majority in the Aarhus City Council

backs a new agreement on climate ...



Energy storage policy analysis and suggestions in China

Moreover, it addresses the recent change in the direction of the energy-storage policy for the State Grid and China Southern Power Grid and analyzes the primary problems existing in ...

Assessing Denmark's Electricity Market -- The ...

Oct 7, 2024 · Denmark's electricity market is dominated by renewable energy, especially wind power, and a commitment to climate goals. Despite its ...



Danish New Energy Storage Equipment: Powering the Future ...

New Tech Alert: When Danish Engineers Play with Fire (700°C Fire, to Be Exact) While most countries are still perfecting lithium-ion solutions, Denmark's already

cooking up the next big ...



READY Site Aarhus , Smart Cities Marketplace

3 days ago · Aarhus is the second biggest city in Denmark with 300 000 inhabitants. With the aim to become carbon neutral by 2030, the city moves forward with its climate and smart city ...

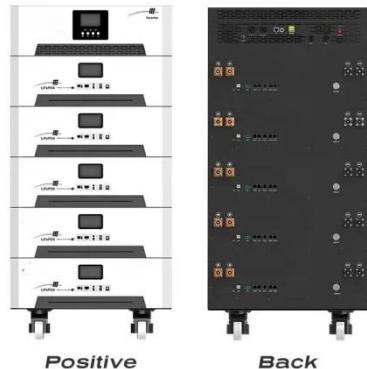


Danish Center for

About Danish Center for Energy Storage
Danish Center for Energy Storage, DaCES, is a partnership that covers the entire value chain from research and ...

COUNTRY REPORT: DENMARK

Sep 20, 2021 · COUNTRY REPORT:
DENMARK New Policy Initiatives, Rules
and Case Law BIRGITTE EGELUND
OLSEN* ANITA RØNNE# & HELLE
TEGNER ANKER# New Policy ...



Danish Urban Energy Development Experiences

Apr 16, 2024 · Denmark has a tradition of holistic planning, which involves planning across different energy sectors to increase energy efficiency, reuse resources, and save money. The ...

Energy storage system policies: Way forward and opportunities ...

Dec 1, 2020 · ESS policies have been proposed in some countries to support the renewable energy integration and grid stability. These policies are mostly concentrated around battery ...



UK unveils long-duration energy storage (LDES) ...

Jan 10, 2024 · Frank Gordon, Director of Policy at trade body REA (Association for Renewable Energy and Clean Technology) said: "REA welcomes the ...



Energy Storage

Aarhus University is currently developing new methods for energy conversion and energy storage, which will enable lower costs for use of renewable energies.



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