

ContainerPower Energy Solutions

Danish containerized power generation



Overview

Soon, container ships calling at Denmark's largest commercial port will be able to hook on shore power and turn off diesel generators. The Port of Aarhus has an onshore power plant on its way to container ships, which will be the first of its kind in Denmark. How does Denmark generate electricity?

Denmark is leading the charge in clean electricity generation, obtaining more than 85% of its electricity from low-carbon sources. Wind energy constitutes the largest portion, contributing almost 60% to the clean electricity mix. Solar energy generates over 13% of the total electricity, alongside biofuels which account for nearly 15%.

How much electricity does Denmark produce in 2022?

In 2022, Denmark produced 35 Terawatt-hours (TWh) of electricity, with renewable sources constituting 83.3% of the total electricity mix. Wind energy was the largest contributor at 54%, followed by bioenergy and waste at 23%, and solar energy at 6.3%.

Is Denmark a net importer of electricity?

Denmark is a net importer of electricity. The flow of electricity between Denmark and the countries it has interconnectors with (Norway, Sweden, Germany, Netherlands and the UK), and the direction of that flow, is highly variable and depends on current demand and current Danish wind power output.

Should Denmark increase clean electricity production?

This trend is concerning as it indicates stagnation rather than growth, precisely when an increase in clean electricity is crucial for advancing electrification and reducing emissions. To bolster low-carbon electricity production, Denmark should focus on expanding its already successful wind and solar capacities.

Does Denmark have hydropower?

Denmark has almost no hydropower, and no pumped storage. Denmark had the 6th best energy security in the world in 2014, although this includes non-electrical energy. Denmark has 1250 MW of methane-fueled distributed power plants supplying district heating.

How do Danish power plants work?

Many Danish power plants are switching from fossil fuels to biomass (wood pellets, wood chips, or straw). Nearly two-thirds of the Danish households are supplied with district heating (heat networks), where the heat is distributed to citizens as hot water in pipes.

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