

## SolarInnovate Energy Solutions

# Where is the island energy site built



## Overview

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What will the energy island in the North Sea do?

In the long term, the energy island and offshore wind farms in the North Sea will have their capacity expanded to allow the generation and distribution of 10 GW of electricity. The island in the North Sea and the surrounding offshore wind farms will be established approximately 100 km off the coast of Thorsminde, a town in Jutland.

Will Denmark build a new energy island?

Denmark will construct one of the world's first energy islands, utilizing its abundant wind energy resources in the North and Baltic Seas. These energy islands will form a crucial part of a hub-and-spoke grid, facilitating smart electricity distribution between regions across the two seas.

What is an energy island?

An energy island makes it possible to establish large wind farms at sea far from the coast. The energy produced by the wind turbines is sent via cables to the energy island, from where it is sent out to consumers. On Bornholm, a high-voltage facility must therefore be established on the island which can receive and distribute the electricity.

What is the energy island in the Baltic Sea?

The energy island in the Baltic Sea will be Bornholm, where electrotechnical facilities on the island will serve as a hub for offshore wind farms off the coast supplying 3 GW of energy. Denmark has a long history of exploiting the strong winds from the sea to produce electricity.

How will energy Islands benefit the world?

These energy islands will form a crucial part of a hub-and-spoke grid, facilitating smart electricity distribution between regions across the two seas. The offshore wind turbines around the islands will be able to supply green

electricity with a capacity to power at least five million households.

How much does it cost to build an energy island?

Of the total investment of around DKK 210 billion, the energy island is estimated to cost approximately DKK 10 billion. The remaining 95% of the investment will cover costs to build the cable links to land and establish 10 connecting offshore wind farms.

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### **3.5 GW: World first artificial island can power 3 million homes**

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