

Denmark's artificial energy island project

TAGS: GS-3: Environment, Renewable Energy

CONTEXT:

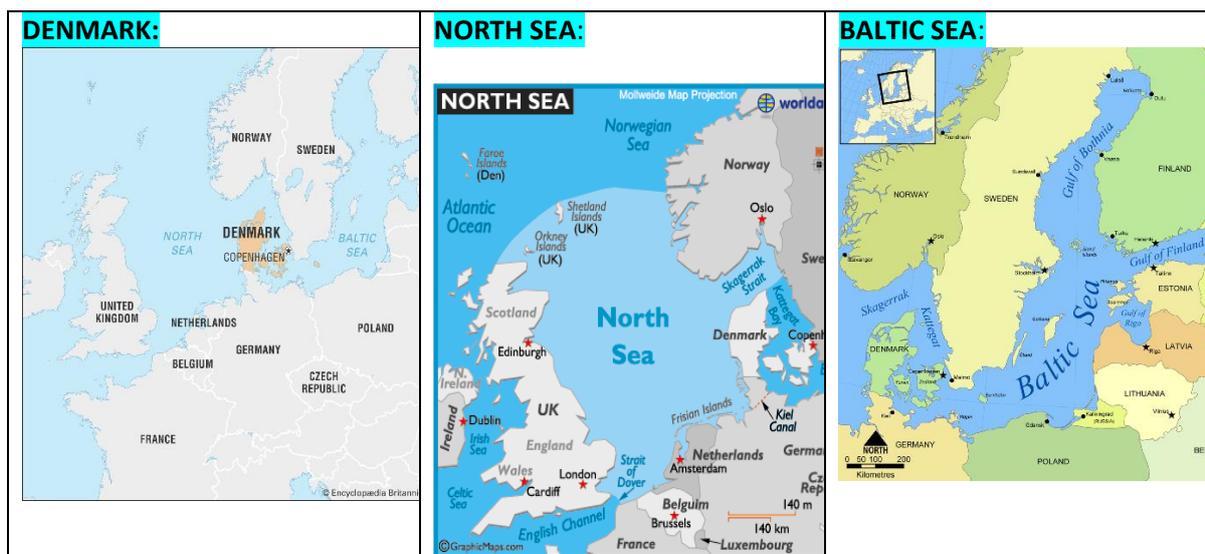
The **Danish government** on Thursday approved a plan to build an **artificial island in the North Sea** as part of its **effort to switch to green energy**. The project is being called the **largest construction project to be undertaken in Denmark's history** with an estimated cost of DKK 210 billion.

ENERGY ISLAND IN DENMARK:

- **Energy island:** An energy island is based on a **platform that serves as a hub for electricity generation** from surrounding **offshore wind farms**.
- **Purpose:** The idea is to connect and **distribute power between Denmark and neighbouring countries**.
 - The artificial island: Its **primary purpose** is to provide **large-scale offshore wind power**.
- **Agreement with Countries:** Denmark has already entered into agreements **with the Netherlands, Germany and Belgium** to begin the joint analysis of connections in the energy island.
- **Denmark** wants to become the **first country** in the world to begin **working on such energy islands** with a total capacity of about 5 GW offshore winds.
- **Timeline:** The construction of both islands is expected to be complete **by 2030**.

IDEA OF ENERGY ISLAND:

- In June 2020, the **Danish Parliament** decided to initiate the **construction of two energy islands**, which will **export power to mainland Denmark and neighbouring countries**.
- **Location:** One in **North Sea** and the second in the **Baltic Sea**.
- **EU announcement to Switch to Renewables:** To transform its **electricity system**
 - To rely **mostly on renewables within a decade** and
 - To **increase its offshore wind energy capacity**
 - ✓ **By over 25-fold**
 - ✓ **By the year 2050.**



Source: Indian Express

MCQs:

Q. Recently artificial energy island project was started by which of the following country?

- a) Netherland
- b) Germany
- c) Denmark
- d) Belgium

ANS: C