

Offshore Renewable Energy Strategy

Key Technologies

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#EUGreenDeal



To become climate-neutral by 2050, the EU needs to further develop **reliable and efficient sources of renewable energy**.

Most of our renewable energy is currently produced on land. However, there are also a range of technologies for renewable energy production at sea with considerable potential for further development.

There are **opportunities for offshore renewable energy all across Europe** - from the North Sea and Baltic Sea to the Atlantic Ocean, the Mediterranean Sea and the Black Sea. **And all of Europe will benefit from the sustainable development of offshore energy:**

- ▶ It will feed into the European grid;
- ▶ It will offer cleaner energy to citizens;
- ▶ It will reduce our dependence on energy imports;
- ▶ It will support industry across the EU.

Examples of projects and production sites

Offshore bottom-fixed
HORNS REV 3
406.7 MW



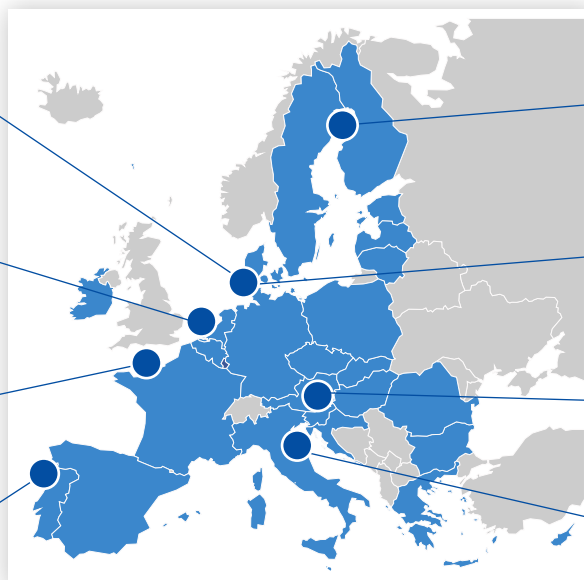
Offshore floating solar PV
Oceans of Energy
17 kW (expected
50kW by end 2020)



Tidal
Hydroquest Ocean
1000 kW



Floating Wind
WindFloat Atlantic
25 MW



Offshore bottom-fixed
Kårehamn Offshore Windfarm
48 MW



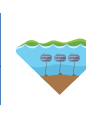
Algae production for biofuels
MacroFuels
Market readiness
envisaged for 2030



Manufacturing sites
Power Converters Hubs & Shafts



Wave Energy
ISWEC
50 kW



➤ Technologies supported by the Offshore Renewable Energy Strategy

The EU offshore renewable energy strategy looks at a broad range of technologies. Some of them are already well advanced, while others are still on their way to the commercial stage.

