

# European Offshore Wind Context

**Europe Offshore Farms, currently installed**  
32 GW <sup>[1]</sup>

**DK Offshore Wind Farms installations**  
2.3 GW <sup>[1]</sup>

**EU Targets for Offshore, all basins**  
300 GW by 2050 <sup>[2]</sup>  
60 GW by 2030

**DK Target for Offshore Wind Farms**  
12.9 GW in 2030 <sup>[3]</sup>

## Baltic Sea Wind Conditions

At 100 m above the sea, mean wind speeds in the Baltic sea vary gradually from approximately 9.6 m/s to 8.5 m/s to the far North and East and close to coastlines.

## Baltic Sea Wind Farms

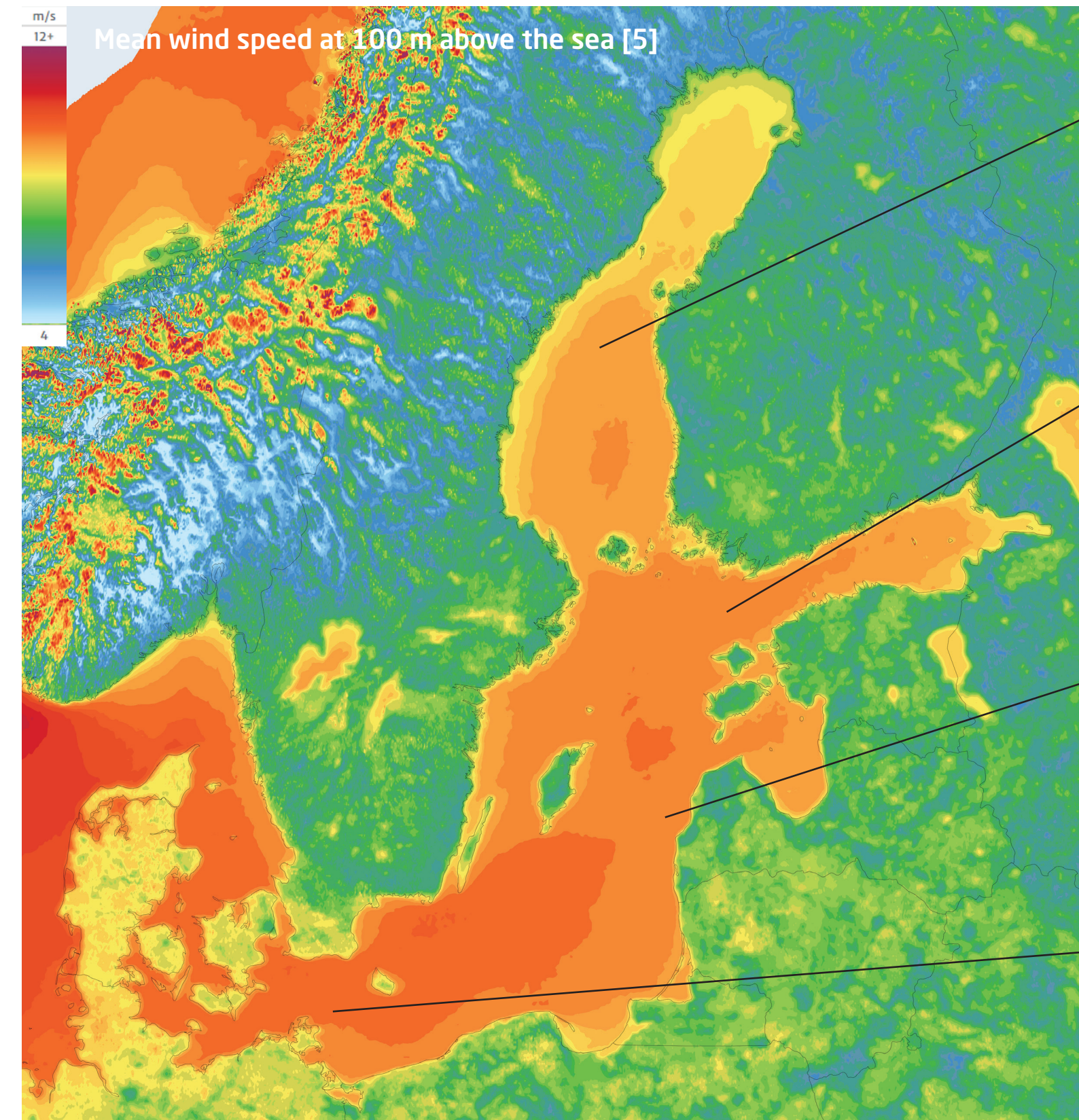
**Currently installed**  
2.3 GW <sup>[1]</sup>

**Reference capacity estimates**  
70 - 100 GW <sup>[4]</sup>

**Estimate of yearly production**  
220 - 350 TWh

**Using 14,000 - 20,000 km<sup>2</sup>**

Range due to consideration of what areas can and cannot be used (protected areas, shipping lanes etc) and wind farm specifications.



Wind roses show the distribution of wind direction. For instance, the bottom rose shows that winds from the West are most frequent. Under the rose the mean wind speed at 100 m above the sea is shown; from [5].

## Resources:

[1] <https://windeurope.org/intelligence-platform/product/all-data-by-country/> [2] <https://data.consilium.europa.eu/doc/document/ST-10746-2021-INIT/en/pdf>  
[3] <https://kefm.dk/aktuelt/nyheder/2022/jun/aftale-om-et-mere-groent-og-sikkert-danmark-> [4] <https://publications.jrc.ec.europa.eu/repository/handle/JRC116900>  
[5] <https://globalwindatlas.info/> and further details <https://map.neweuropeanwindatlas.eu/>