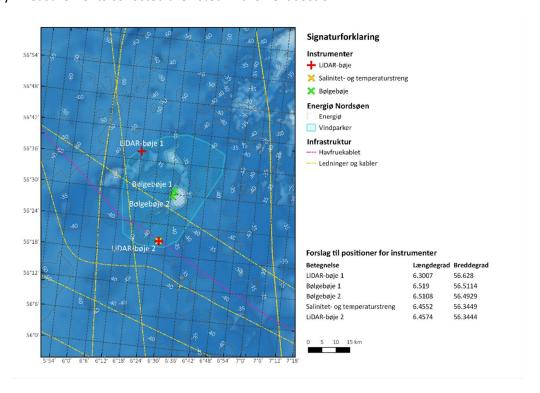
The North Sea Artificial Island and F-LiDAR measurements

No. 1101, 1102, 1103 FLiDAR measurements

Two Floating LiDAR buoys and two wave buoys have been deployed and are collecting wind, wave, current and other measurements. The locations of the buoys are shown on the map below. On one buoy, a salinity and temperature string is deployed, and a bottom-mounted current profiler is deployed alongside one wave buoy. Measurements collected are listed in the next section.



Measurement Parameters (selected)

- Air temperature and humidity
- Air pressure
- Wind speed (4m)
- Precipitation
- Solar radiation
- Fog/Visibility
- Bat presence
- Wind speed, wind direction at
- Wave height, period, and direction at 30, 40, 60, 90, 100, 120, 150, 180, 200, 240, 270 m
- Current speed and direction in 1 meter depth increments
- · Wave spectrum and dispersion
- Water level
- · Buoy position
- Sea surface temperature
- Conductivity/salinity

No. 1104 Metocean Report (Artificial Island)

The *Metocean report* will describe the operational design conditions at the energy island site (wind, wave, current, water level, and weather windows). This includes directional and omnidirectional analysis of these parameters and presentation of their joint probability distributions. The report will also describe the extreme design conditions, specifying extreme values for wind, waves, current, and water level for return periods of 1, 5, 10, 50, 100, 1000, and 10000 years and will utilize joint extreme value analysis methods.

No. 1105 Four (4) *Plausibility Statement from Certification Body* (one for the artificial island, one for each 1GW wind park area). A certification body will review all reports and deliver a plausibility statement that evaluates their suitability for undertaking conceptual designs for the energy island and for the wind farms.