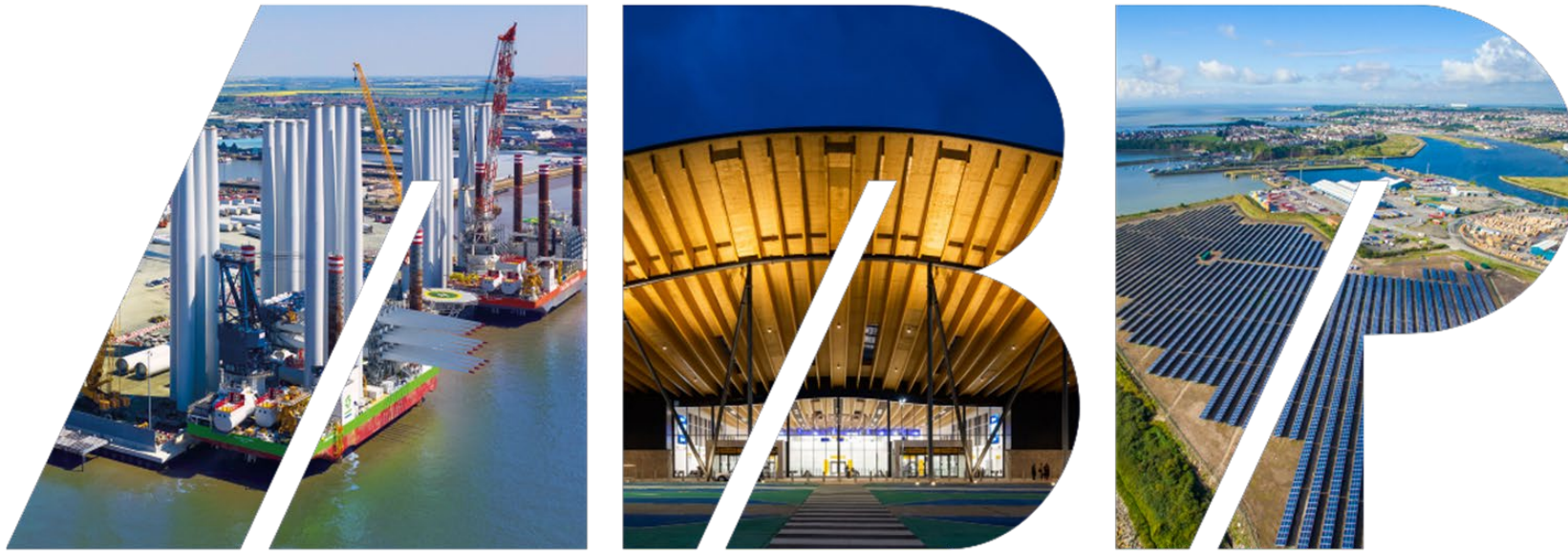




ABP Ipswich Onshore Wind – Overview

July 2024

ABP Onshore Wind: What, Where and Why?

ABP is increasing its on-port onshore wind deployment to help provide a basis for customers and local industry to sustainably operate and hopefully grow by:

1. Decarbonising port operations: part of ABP's sustainability strategy and Net Zero objective
 2. Controlling the cost of electricity; protection against wholesale market volatility
- An onshore wind project has been commenced at Ipswich for one turbine at the port
 - ABP also has onshore wind projects in progress and under consideration elsewhere
 - Planning applications were submitted in March 2024 for:
 - Immingham: two turbines
 - Hull: two turbines
 - Grimsby: one turbine
 - Further planning applications due 2025 for additional turbines in the Humber
 - Project in progress at Port Talbot (up to four turbines)
 - Projects under consideration at other ports including Barry (up to two turbines)



ABP's Sustainability Strategy

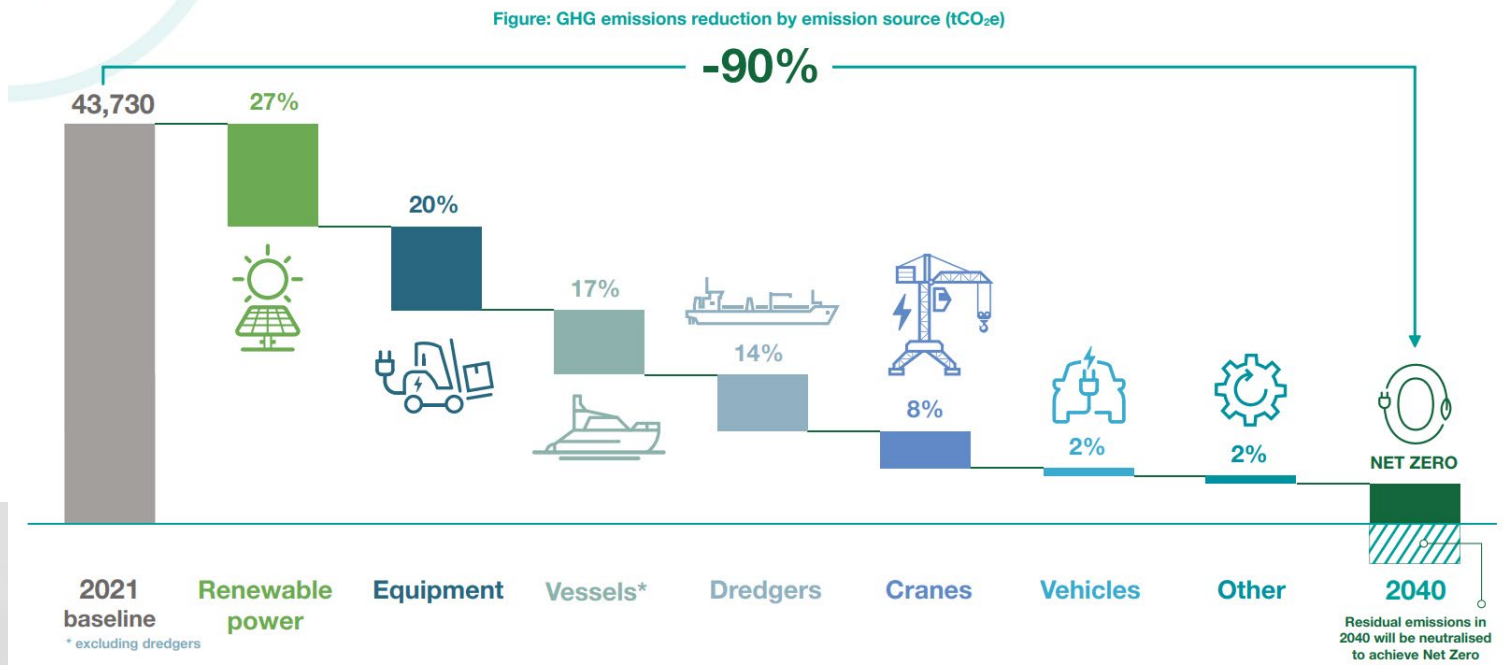


ABP: Ready for Tomorrow

- ABP's new sustainability strategy launched in February 2023: Ready for Tomorrow
- £2Bn investment by ABP to decarbonise
 - £600m investment by 2040 to decarbonise ABP's operations
 - £1.4bn in infrastructure and facilities supporting customers involved in the energy transition



- Onshore wind forms part of the renewable power investment



Scope 1 and 2 emissions were reduced by 38% between 2014 and 2021

Why Onshore wind? Part 2 – Control Electricity Costs KEEPING BRITAIN TRADING

- To provide a basis for our ports to be a place for ABP and customer businesses to sustainably operate and grow through:
 1. decarbonising operations and,
 2. helping to control electricity costs; the turbines are primarily to power the ports, not greenfield

UK government data for large industrial consumers (cost of UK electricity compared to EU 27-28)

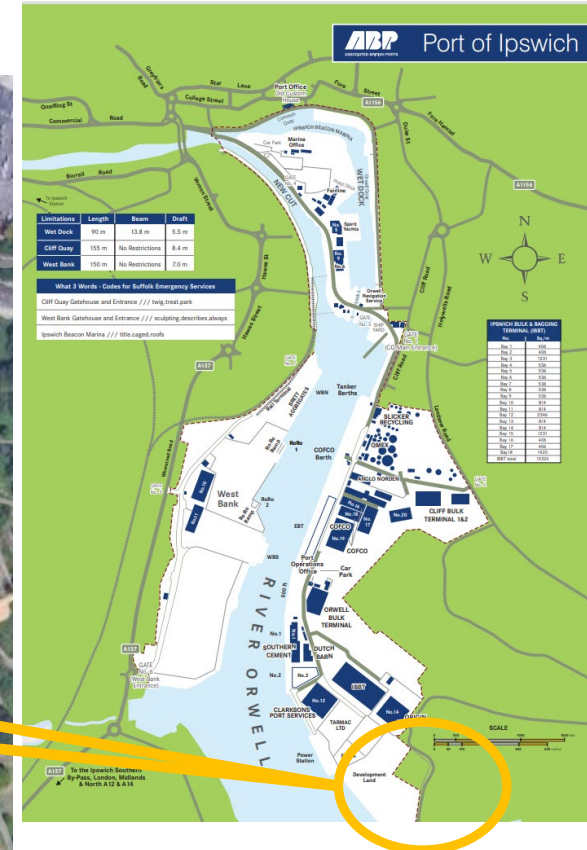
- 2019 – 27th
- 2020 – 28th
- 2021 – 28th
- 2022 (H1) – 26th

Electricity Prices: Forward Delivery Contracts - Weekly Average (GB)



Ipswich: Potential Turbine Location

- Two potential location options are under consideration, either:
 - ABP's land (1), or
 - Anglian Water's land (2)
- One turbine in total, not two i.e. either location 1 or 2, not both
- Which location to proceed with is under review considering the usual onshore wind constraint factors including noise, ornithology, wind yield, landscape and visual, construction access etc and of course discussions with Anglian Water regarding option 2



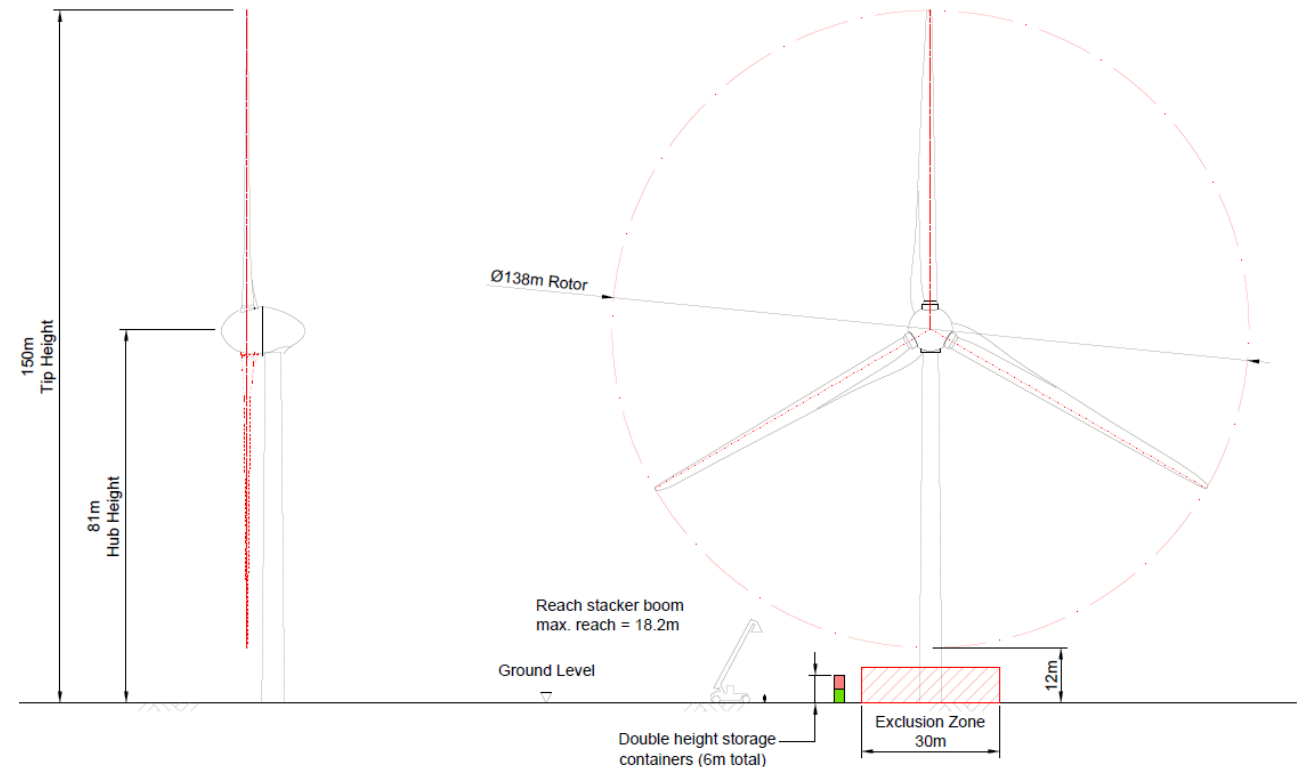
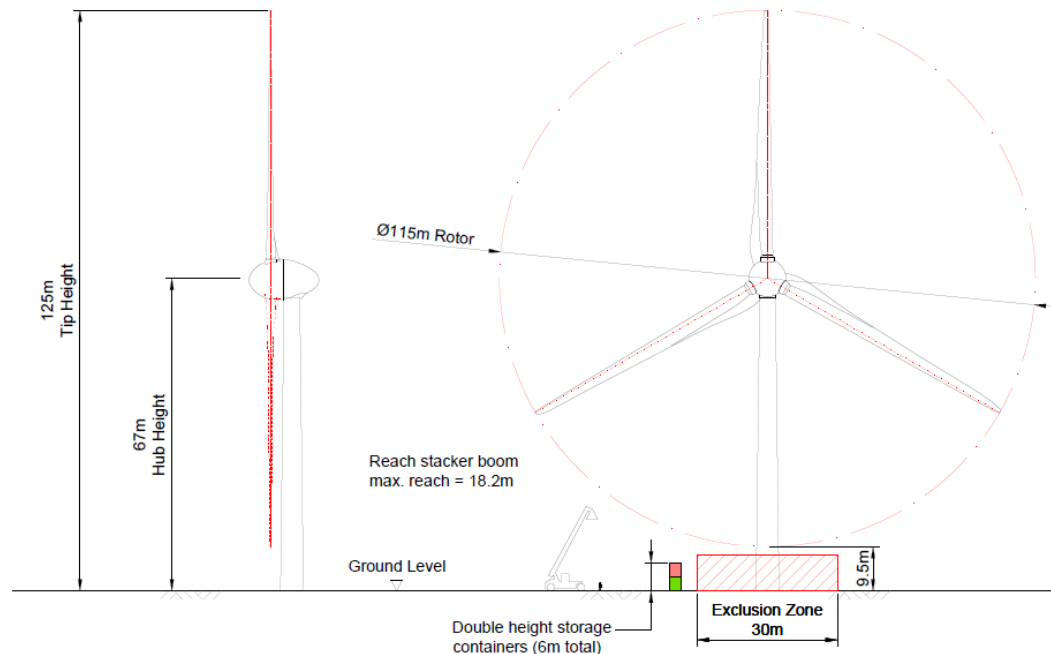
Only the southern end of the Port is suitable for a wind turbine

Ipswich Turbine Size Options

- Two potential turbine sizes under consideration, either 150m to tip at tallest point, or 125m
- Different turbine models/manufacturer options means swept area is t.b.c. but in general a taller machine and larger swept area = better outcome for the port and ABP's customers

- Example 150m tip height

- Example 125m tip height



- Early Development work Q2 2024 (noise measurements, grid application etc)
- Pre-app meeting Summer 2024
- Screening/Scoping submission H2 2024
- Public consultations H1 2025
- Planning Application H2 2025
- *Planning consent circa 4-6 months after application?*
- Turbine order lead time: circa 12-14 months
- *Construction H2 2027?*
- *Operational end 2027?*

Who is the turbine for and How would it be constructed? KEEPING BRITAIN TRADING

- The turbines would be fully owned and funded by ABP
- The electricity would be delivered to the ABP port network primarily for consumption at the port by ABP and ABP's customers in order to:
 - Help control electricity costs
 - Help decarbonise port operations
 -and thereby provide help additional basis for ABP and ABP's customers to sustainably operate and hopefully grow
- Consideration will be given for a community fund (a sum of money each year for local community projects) – ability for a fund and scale t.b.c. once turbine size and wind yield is clarified; larger turbine = more ability for a fund
- A construction access assessment in due course would review the ability to deliver large/bulky components direct to the port (e.g. turbine tower, blades, nacelle), which would significantly reduce the impact on local roads

- **Why:** Help control electricity costs and decarbonise ABP and customer operations
- **What:** One turbine located at the port to directly power the port network
- **When:** Planning application potentially H2 2025, potentially operational by end 2027
- **Who:** Fully owned by ABP to further help support ABP and customer business growth
- **How:** Major component delivery hopefully direct to port