

Notification to Affected Parties of a Proposed Activity under Section 3 of the Espoo Convention

A. Information about the proposed activity

1. *Name of the project:*
 - Wind energy zone Doordewind I
2. *Nature of the proposed activity:*
 - Constructing and operating a wind farm in the wind energy zone.
3. *Has the proposed activity been included in Annex I of the Treaty?*
 - No.
4. *Scope of the proposed activity (main activity and subsidiary activities):*
 - Installation of cables/pipelines for the construction of a wind farm. And removal of the wind farm after operation ceases.
5. *Scale of the proposed activity:*
 - Site designation has not yet been announced; the surface area of this zone has provisionally been set at 200 km². For wind energy zone Doordewind, one or two wind farms are being proposed with a maximum power output of 2.3 GW.
6. *Timeframe for the proposed activity:*
 - Construction start planned for 2027; operation for about 35 years.
7. *Description of the proposed activity (technology used):*
 - See Annex I: Table 1.0.
8. *Location:*
 - The wind energy zone lies within the Dutch exclusive economic zone (EEZ) and borders the German EEZ. The zone is located about 85 km northwest of the Dutch Wadden Island Ameland. See Annex II: Location map of wind energy zone Doordewind I with coordinates.

B. Information about the expected environmental impact and the proposed mitigating measures

9. *Scope of the assessment:*
 - Relevant aspects, including environmental aspects, will be investigated in the EIA.
10. *Expected environmental impact of the proposed activities:*
 - Unknown at this time; to be investigated in the EIA.
11. *Transboundary effects:*
 - To be investigated in the EIA.
12. *Proposed risk minimisation measures:*
 - To be investigated in the EIA.
13. *Rationale for the proposed activity:*
 - The Dutch Climate Act requires a 55% reduction of CO₂ emissions by 2030 compared to 1990 levels, and fully carbon neutral electricity production by 2050 (climate targets). Offshore wind energy plays a key role in the energy transition because:
 - wind farms can deliver sustainable energy on a large scale;
 - wind energy will make the Netherlands less dependent on imported energy.
14. *Time limit for submitting an answer*
 - Within 6 weeks of receiving the Espoo reporting form.

C. Submitter

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Directorate-General for Climate & Energy
Energy Transition Directorate
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Affected parties to whom a notification will be sent:

- Germany
- Denmark
- United Kingdom

Additional attachment

Summary of the draft Memorandum on Scope and Level of Detail concerning the environmental impact assessment for the site decision on wind energy zone Doordewind I

ANNEX I: TABLE 1.0 (TECHNOLOGY USED)

Table 1.0

Subject	Bandwidth												
Total power output for wind energy zone DDW I	2.0-2.3 GW												
Maximum number of turbines	A total power output of 2.3 GW per site and a minimum power output of 15 MW per turbine results in 153 turbines per site												
Power output of individual wind turbines	Minimum 15 MW and maximum 25 MW ¹												
Tip height of individual wind turbines	15 MW turbines: 261 metres maximum 20 MW turbines: 304.8 metres maximum (1,000 feet) 25 MW turbines: 330 metres maximum ²												
Tip depth of individual wind turbines	25 metres minimum												
Rotor diameter of individual wind turbines	15 MW turbines: 236 metres maximum 20 MW turbines: 280 metres maximum 25 MW turbines: 305 metres maximum ³												
Maximum total rotor surface area ⁴	7,081,150 m ²												
Minimum distance between wind turbines ⁵	4 times the rotor diameter												
Number of blades per wind turbine	3												
Type of foundation	Monopile, multipile, tripod, gravity based structure, suction bucket												
Acceptable noise level for pile driving of foundations (impulse noise)	160 to a maximum of 164 dB re 1 µPa _{2s} SELss (at 750 metres from the source of the noise)												
For pile driving/vibrations from monopile foundations, number of piles per turbine and diameters of the foundation pile or piles:	<table><tr><th>Monopile</th><th>15 MW</th><th>20 MW</th><th>25 MW</th></tr><tr><td>Diameter at the top (m)</td><td>7.5</td><td>8.5</td><td>10.5</td></tr><tr><td>Diameter at the bottom</td><td>10</td><td>11.5</td><td>13</td></tr></table>	Monopile	15 MW	20 MW	25 MW	Diameter at the top (m)	7.5	8.5	10.5	Diameter at the bottom	10	11.5	13
Monopile	15 MW	20 MW	25 MW										
Diameter at the top (m)	7.5	8.5	10.5										
Diameter at the bottom	10	11.5	13										
Electrical infrastructure (inter-array cable installation)	66 kV, burial depth 1 metre minimum and maintained at depth												
Lifespan and complete removal of all parts of the wind farm	Approx. 35 years This permits a licensing period of up to 40 years (5 years for the construction and the removal of the wind farm).												

ANNEX II: Location of wind energy zone Doordewind I with coordinates

¹ The EIA will also look at 25 MW turbines.

² The EIA will also look at heights over 1,000 feet.

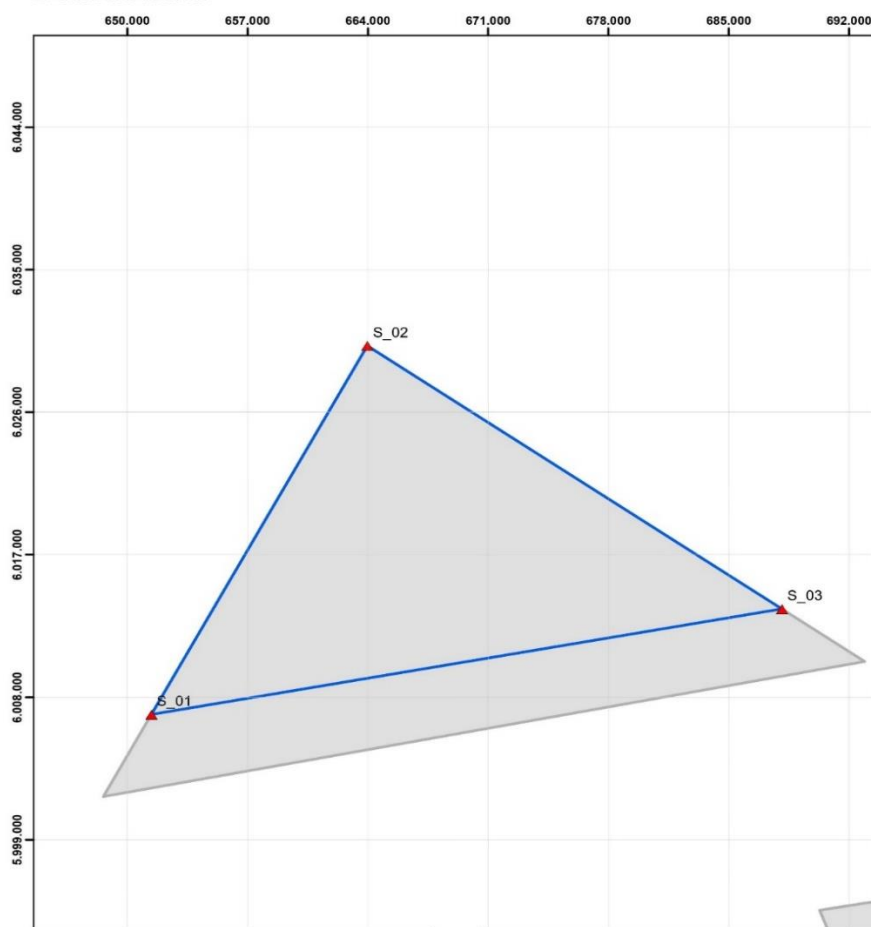
³ The EIA will also look at turbines with a rotor diameter up to 305 metres.

⁴ The maximum total rotor surface area is based on 115 20 MW turbines with a rotor diameter of 280 metres. 15 MW and 25 MW turbines also fit this surface area.

⁵ This refers to the distance between the wind turbine pile positions. The EIA will look at distances 1 to 4 times the rotor diameter.



Doordewind



Rijksdienst voor Ondernemend
Nederland

- ▲ Coördinaten hoekpunten locatie voorbereidingsbesluit
- Locatie voorbereidingsbesluit
- Aangewezen windenergiegebieden

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Deze kaart is gebaseerd op informatie beschikbaar in mei 2023. Hoewel de grootst mogelijke zorg is besteed aan het samenstellen van de kaart, kan de Rijksdienst voor Ondernemend Nederland niet verantwoordelijk worden gesteld voor welke schade dan ook, voortvloeiend uit onnauwkeurigheden en/of verouderde informatie. De besluiten over windenergie gebieden zijn nog niet definitief.

A4 - scale 1:250.000
0 0,5 1 2 NM
0 1 2 3
km

date: 2024-01-09 mapnr: 20240110RH

Coordinates according to EPSG 25831		
Point No.	Easting	Northing
S_01	651,377.7	6,006,914.6
S_02	663,961.9	6,030,204.0
S_03	688,080.9	6,013,582.7