



MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Annex 2.7 to Applicants' Response to Deadline 4 submissions from Statutory Consultees and other organisation: Extracts from the SEP DEP recommendation report



| Version | Purpose of document | Approved | Date | Approved | Date |
|---------|---------------------|----------|-------------------|----------|-------------------|
| | document | by | | by | |
| F01 | Deadline 5 | GL | September 2025 | IM | September 2025 |
| | | | | | |
| | | | | | |

Prepared by: Prepared for:

Burges Salmon, CMS Morgan Offshore Wind Limited,
Morecambe Offshore Windfarm Ltd

Contents

| 1 | EXTRACT FROM SHERINGHAM AND DUDGEON EXTENSIONS PROJECT |
|---|--|
| | RECOMMENDATION REPORT10 |
| 2 | EXTRACT FROM SECRETARY OF STATE DECISION LETTER 10 |

Glossary

| Term | Meaning |
|---|---|
| 400 kV grid connection cables | Cables that will connect the proposed onshore substations to the existing National Grid Penwortham substation. |
| 400 kV grid connection cable corridor | The corridor within which the 400 kV grid connection cables will be located. |
| Applicants | Morgan Offshore Wind Limited (Morgan OWL) and Morecambe Offshore Windfarm Ltd (Morecambe OWL). |
| Biodiversity benefit | An approach to development that leaves biodiversity in a better state than before. Where a development has an impact on biodiversity, developers are encouraged to provide an increase in appropriate natural habitat and ecological features over and above that being affected. |
| | For the Transmission Assets, biodiversity benefit will be delivered within identified biodiversity benefit areas within the Onshore Order Limits. Further qualitative benefits to biodiversity are proposed via potential collaboration with stakeholders and local groups, contributing to existing plans and programmes, both within and outside the Order Limits. |
| Code of Construction Practice | A document detailing the overarching principles of construction, contractor protocols, construction-related environmental management measures, pollution prevention measures, the selection of appropriate construction techniques and monitoring processes. |
| Commitment | This term is used interchangeably with mitigation and enhancement measures. The purpose of commitments is to avoid, prevent, reduce or, if possible, offset significant adverse environmental effects. Primary and tertiary commitments are taken into account and embedded within the assessment set out in the ES. |
| Construction Traffic Management Plan | A document detailing the construction traffic routes for heavy goods vehicles and personnel travel, protocols for delivery of Abnormal Indivisible Loads to site, measures for road cleaning and sustainable site travel measures. |
| Design envelope | A description of the range of possible elements and parameters that make up the Transmission Assets options under consideration, as set out in detail in Volume 1, Chapter 3: Project Description. This envelope is used to define the Transmission Assets for EIA purposes when the exact engineering parameters are not yet known. This is also referred to as the Maximum Design Scenario or Rochdale Envelope approach. |
| Development Consent Order | An order made under the Planning Act 2008, as amended, granting development consent. |
| Direct pipe | A cable installation technique which involves the use of a mini (or micro) tunnel boring machine and a hydraulic (or other) thruster rig to directly install a steel pipe between two points. |
| Environmental Impact Assessment | The process of identifying and assessing the significant effects likely to arise from a project. This requires consideration of the likely changes to the environment, where these arise as a consequence of a project, through comparison with the existing and projected future baseline conditions. |

| Term | Meaning |
|---|--|
| Environmental Statement | The document presenting the results of the Environmental Impact Assessment process. |
| Evidence Plan Process | A voluntary consultation process with specialist stakeholders to agree the approach to, and information to support, the EIA and Habitats Regulations Assessment processes for certain topics. |
| Generation Assets | The generation assets associated with the Morgan Offshore Wind Project and the Morecambe Offshore Windfarm include the offshore wind turbines, inter-array cables, offshore substation platforms and platform link (interconnector) cables to connect offshore substations. |
| Intertidal area | The area between Mean High Water Springs and Mean Low Water Springs. |
| Intertidal Infrastructure Area | The temporary and permanent areas between MLWS and MHWS. |
| Landfall | The area in which the offshore export cables make landfall (come on shore) and the transitional area between the offshore cabling and the onshore cabling. This term applies to the entire landfall area at Lytham St. Annes between Mean Low Water Springs and the transition joint bay inclusive of all construction works, including the offshore and onshore cable routes, intertidal working area and landfall compound(s). |
| Local Authority | A body empowered by law to exercise various statutory functions for a particular area of the United Kingdom. This includes County Councils, District Councils and County Borough Councils. |
| Local Highway Authority | A body responsible for the public highways in a particular area of England and Wales, as defined in the Highways Act 1980. |
| Main rivers | The term used to describe a watercourse designated as a Main River under the Water Resources Act 1991 and shown on the Main River Map. These are usually larger rivers or streams and are managed by the Environment Agency. |
| Marine licence | The Marine and Coastal Access Act 2009 requires a marine licence to be obtained for licensable marine activities. Section 149A of the Planning Act 2008 allows an applicant for to apply for 'deemed marine licences' in English waters as part of the development consent process |
| Maximum design scenario | The realistic worst case scenario, selected on a topic-specific and impact specific basis, from a range of potential parameters for the Transmission Assets. |
| Mean High Water Springs | The height of mean high water during spring tides in a year. |
| Mean Low Water Springs | The height of mean low water during spring tides in a year. |
| Micro-tunnel / micro-tunnelling | A tunnelling technique involving the use of a hydraulic (or other) jacking rig and a mini (or micro) tunnel boring machine to install a concrete tunnel between two points. |
| Mitigation measures | This term is used interchangeably with Commitments. The purpose of such measures is to avoid, prevent, reduce or, if possible, offset significant adverse environmental effects. |
| Morecambe Offshore Windfarm: Generation Assets | The offshore generation assets and associated activities for the Morecambe Offshore Windfarm. |

| Term | Meaning |
|--|--|
| Morecambe Offshore Windfarm: Transmission Assets | The offshore export cables, landfall, and onshore infrastructure required to connect the Morecambe Offshore Windfarm to the National Grid. |
| Morecambe OWL | Morecambe Offshore Windfarm Limited is owned by Copenhagen Infrastructure Partners' (CIP) fifth flagship fund, Copenhagen Infrastructure V (CI V). |
| Morgan and Morecambe Offshore Wind Farms: Transmission Assets | The offshore export cables, landfall, and onshore infrastructure for the Morgan Offshore Wind Project and the Morecambe Offshore Windfarm. This includes the offshore export cables, landfall site, onshore export cables, onshore substations, 400 kV grid connection cables and associated grid connection infrastructure such as circuit breaker compounds. Also referred to in this report as the Transmission Assets, for ease of reading. |
| Morgan Offshore Wind Project: Generation Assets | The offshore generation assets and associated activities for the Morgan Offshore Wind Project. |
| Morgan Offshore Wind Project: Transmission Assets | The offshore export cables, landfall and onshore infrastructure required to connect the Morgan Offshore Wind Project to the National Grid. |
| Morgan OWL | Morgan Offshore Wind Limited is a joint venture between JERA Nex bp (JNbp) and Energie Baden-Württemberg AG (EnBW). |
| National Grid Penwortham substation | The existing National Grid substation at Penwortham, Lancashire. |
| National Policy Statement(s) | The current national policy statements published by the Department for Energy and Net Zero in 2023 and adopted in 2024. |
| Offshore booster station | A fixed structure located along the offshore export cable route, containing electrical equipment to ensure bulk wind farm capacity can be fully transmitted to the onshore substations. |
| Offshore substation platform(s) | A fixed structure located within the wind farm sites, containing electrical equipment to aggregate the power from the wind turbine generators and convert it into a more suitable form for export to shore. |
| Offshore export cables | The cables which would bring electricity from the Generation Assets to the landfall. |
| Offshore export cable corridor | The corridor within which the offshore export cables will be located. |
| Offshore Permanent Infrastructure Area | The area within the Transmission Assets Offshore Order Limits (up to MLWS) where the permanent offshore electrical infrastructure (i.e. offshore export cables) will be located. |
| Offshore Order Limits | See Transmission Assets Order Limits: Offshore (below). |
| Offshore substation platform(s) | A fixed structure located within the wind farm sites, containing electrical equipment to aggregate the power from the wind turbine generators and convert it into a more suitable form for export to shore. |
| Onshore export cables | The cables which would bring electricity from the landfall to the onshore substations. |
| Onshore export cable corridor | The corridor within which the onshore export cables will be located. |
| Onshore Infrastructure Area | The area within the Transmission Assets Order Limits landward of MHWS. Comprising the offshore export cable corridor from MHWS to |

| Term | Meaning |
|--|--|
| | the transition joint bay, onshore export cable corridor, onshore substations and 400 kV grid connection cable corridor, and associated temporary and permanent infrastructure including temporary and permanent compound areas and accesses. Those parts of the Transmission Assets Order Limits proposed only for ecological mitigation and/or biodiversity benefit are excluded from this area. |
| Onshore Order Limits | See Transmission Assets Order Limits: Onshore (below). |
| Onshore substations | The onshore substations will include a substation for the Morgan Offshore Wind Project: Transmission Assets and a substation for the Morecambe Offshore Windfarm: Transmission Assets. These will each comprise a compound containing the electrical components for transforming the power supplied from the generation assets to 400 kV and to adjust the power quality and power factor, as required to meet the UK Grid Code for supply to the National Grid. |
| Preliminary Environmental Information Report | A report that provides preliminary environmental information in accordance with the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This is information that enables consultees to understand the likely significant environmental effects of a project, and which helps to inform consultation responses. |
| Renewable energy | Energy from a source that is not depleted when used, such as wind or solar power. |
| Scour protection | Protective materials to avoid sediment being eroded away from the base of the foundations due to the flow of water. |
| Substation | Part of an electrical transmission and distribution system. Substations transform voltage from high to low, or the reverse by means of electrical transformers. |
| The Secretary of State for Energy Security and Net Zero | The decision maker with regards to the application for development consent for the Transmission Assets. |
| Transmission Assets | See Morgan and Morecambe Offshore Wind Farms: Transmission Assets (above). |
| Transmission Assets Order Limits | The area within which all components of the Transmission Assets will be located, including areas required on a temporary basis during construction and/or decommissioning (such as construction compounds). |
| Transmission Assets Order Limits: Offshore | The area within which all components of the Transmission Assets seaward of Mean Low Water Springs will be located, including areas required on a temporary basis during construction and/or decommissioning. |
| | Also referred to in this report as the Offshore Order Limits, for ease of reading. |
| Transmission Assets Order Limits: Onshore | The area within which all components of the Transmission Assets landward of Mean High Water Springs will be located, including areas required on a temporary basis during construction and/or decommissioning (such as construction compounds). |
| | Also referred to in this report as the Onshore Order Limits, for ease of reading. |

Acronyms

| Acronym | Meaning |
|---------|---|
| AIS | Air Insulated Switchgear |
| AOD | Above Ordnance Datum |
| BCA | Bilateral Grid Connection Agreement |
| CoCP | Code of Construction Practice |
| СоТ | Project Commitment |
| CBRA | Cable Burial Risk Assessment |
| CfD | Contracts for Difference |
| CMS | Construction Method Statement |
| CSIP | Cable Specification and Installation Plan |
| СТМР | Construction Traffic Management Plan |
| DCO | Development Consent Order |
| DECC | Department of Energy and Climate Change |
| Defra | Department for Environment, Food and Rural Affairs |
| DESNZ | Department for Energy Security & Net Zero |
| dML | Deemed Marine Licence |
| EnBW | Energie Baden-Württemberg AG |
| EIA | Environmental Impact Assessment |
| EMP | Environmental Management Plan |
| EPP | Evidence Plan Process |
| ES | Environmental Statement |
| EWG | Expert Working Group |
| GIS | Gas Insulated Switchgear |
| HDD | Horizontal Directional Drilling |
| HGV | Heavy goods vehicle |
| HNDR | Holistic Network Design Review |
| HVAC | High Voltage Alternating Current |
| IALA | International Association of Marine Aids to Navigation and Lighthouse Authorities |
| IAQM | Institute of Air Quality Management |
| LAT | Lowest Astronomical Tide |
| MCA | Maritime and Coastguard Agency |
| MCZ | Marine Conservation Zone |
| MDS | Maximum Design Scenario |

| Acronym | Meaning |
|---------|---|
| MHWS | Mean High Water Springs |
| MLWS | Mean Low Water Springs |
| ММО | Marine Management Organisation |
| MPS | Marine Policy Statement |
| МТВМ | Mini (or micro) tunnel boring machine |
| NGESO | National Grid Electricity System Operator |
| NPS | National Policy Statement |
| NSIP | Nationally Significant Infrastructure Project |
| O&M | Operation and Maintenance |
| OSP | Offshore Substation Platform |
| OTNR | Offshore Transmission Network Review |
| PDE | Project Design Envelope |
| PEIR | Preliminary Environmental Information Report |
| PPP | Pollution Prevention Plan |
| PRoW | Public rights of way |
| SAC | Special Areas of Conservation |
| SAR | Search and Rescue |
| SPA | Special Protection Area |
| SNCBs | Statutory Nature Conservation Bodies |
| SSSI | Sit of Special Scientific Interest |
| SWMP | Site Waste Management Plan |
| TEP | Technical Engagement Plan |
| TJB | Transition Joint Bay |
| UK | United Kingdom |
| UXO | Unexploded Ordnance |
| WSI | Written scheme of investigation |

Units

| Unit | Description |
|------|-------------|
| % | Percentage |
| dB | Decibels |
| Kg | Kilogram |
| kHz | Kilohertz |

| Unit | Description |
|-----------------|--------------------|
| KJ | Kilojoules |
| km | Kilometres |
| km ² | Kilometres squared |
| kV | Kilovolt |
| m | Metres |
| m ² | Metres squared |
| m ³ | Metres cubed |
| nm | Nautical mile |
| μРа | micropascal |

1 Extract from Sheringham and Dudgeon Extensions Project Recommendation Report

28.9.62. The Applicant stated that the application for NWL has not yet been submitted. However, that Applicant confirmed that it had taken NWL into consideration, for instance within the Cumulative Effects Assessment (CEA) for traffic and transport. The Applicant also said that it would meet NCC regularly to continue discussions as the design of both schemes develop further and engage with NCC in order to agree on suitable protections for the NWL [REP1-033].

28.9.63. Shortly before the close of the Examination, NCC stated that its concerns regarding the effects of the Proposed Development were outstanding and submitted its preferred drafting for NWL to be included in the rDCO [REP7-087] [REP7-086].

28.9.64. The Applicant stated that it would engage on a Co-operation Agreement with NCC, but this process would be more suitably timed after the application for NWL has been submitted. Additionally, the Applicant also stated that it would be unreasonable for PP to be imposed for the benefit of a scheme which still had a degree of uncertainty [REP8-057] [REP8-051].

ExAs Reasoning

28.9.65. The ExA has limited information and evidence before it, regarding the spatial interaction between the Proposed Development and NWL. While NCC indicates there might be some land that is required for both NWL and the Proposed Development, the details of this overlap are not before the ExA. Likewise, the ExA has an outline of how the Proposed Development would effect NWL when it is built, but there is no substantive evidence to demonstrate this. With the limited information, lateness of submission, and no definitive details about the delivery of NWL, the ExA cannot conclude if s138 and s127 apply. On the basis of the information before it, and given the lack of input from the Applicant, the ExA finds the inclusion of PP as proposed by NCC, in the rDCO would not be reasonable.

2 <u>Extract from Secretary of State Decision Letter</u>

2.3. Except as indicated otherwise in the paragraphs below, the Secretary of State agrees with the findings, conclusions and recommendations of the ExA as set out in the ExA Report, and the reasons for the Secretary of State's decision are those given by the ExA in support of its conclusions and recommendations.