



Appendix 6.1

Long list of cumulative projects considered within the EIA Report

GoBe Consultants Ltd.

March 2018

1 Firth of Forth and Tay Offshore Wind Farms

Inch Cape Offshore Wind

(as described in the decision notices of Scottish Ministers dated 10th October 2014 and plans referred to therein and as proposed in the Scoping Report submitted to MS-LOT in May 2017)

The consented project will consist of up to 110 wind turbines and generating up to 784 MW situated East of the Angus Coast in the outer Forth and Tay. It is being developed by Inch Cape Offshore Windfarm Ltd (ICOL). This project was consented in 2014, but was subject to Judicial Review proceedings (see section 1.4.1.1 of the EIA Report for full details) which resulted in significant delays. Subsequently ICOL requested a Scoping Opinion for a new application comprising of 75 turbines with a generating capacity of 784 MW. Project details can be accessed at: <http://www.inchcapewind.com/home>

Seagreen Alpha and Bravo

(as described in the decision notices of Scottish Ministers dated 10th October 2014 and plans referred to therein and as Proposed in the Scoping Report submitted to MS-LOT in May 2017)

The consents for this project includes two offshore wind farms, being developed by Seagreen Wind Energy Limited (SWEL), each consisting of up to 75 wind turbines and generating up to 525 MW. This project was consented in 2014, but was subject to Judicial Review proceedings (see section 1.4.1.1 of the EIA Report for full details) which resulted in significant delays. Subsequently Seagreen requested a Scoping Opinion for a new application called Seagreen Phase 1 comprising of single project with 120 turbines. Project details can be accessed at: <http://www.seagreenwindenergy.com/>.

2 Other Offshore Wind Farms

European Offshore Wind Deployment Centre

(as-built parameters to be considered)

The consented project will consist of up to 11 wind turbines, generating up to 8.4 MW each, located immediately off Aberdeen. It is being developed by Aberdeen Offshore Wind Farm Limited (AOWFL) and construction will take place and be complete during 2017. Project details can be found at: <https://corporate.vattenfall.co.uk/projects/wind-energy-projects/european-offshore-wind-deployment-centre/>.

Hywind Scotland Pilot Park

(as-built parameters to be considered)

Statoil plan to build the first floating (moored floating spar type structure) wind farm off the Scottish coast. The consented project will be located near Buchan Deep, approx. 25-30 km off the coast of Peterhead in Aberdeenshire. It will consist of 5 wind turbines and is intended to be a 30 MW pilot project. Latest project details can be found at: <https://www.statoil.com/en/news/hywindscotland.html>.

Blyth Offshore Demonstrator

(as-consented parameters to be considered)

Located off the coast of Northumberland, the consented project will consist of up to 15 turbines. Construction will commence in 2017 and project details can be found at: <http://www.edf-er.com/OurProjects/Proposed/BlythOffshore/ProjectOverview.aspx>.

Beatrice Offshore Wind Farm

(consent plan parameters to be considered)

The Beatrice Offshore Wind Farm, to be developed by Beatrice Offshore Wind Limited (BOWL), will consist of up to 84 wind turbines, two OSPs and generate no less than 588 MW. Construction on the project commenced in early 2017 and will be fully commissioned and operational in early 2019. Latest project details can be found at: <http://www.gov.scot/Topics/marine/Licensing/marine/scoping/Beatrice>.

Telford, Stevenson and MacColl Offshore Wind Farms

(as-consented parameters to be considered)

Three adjacent consented projects, developed by Moray Offshore Renewables Limited (MORL), in the Moray Firth. The projects will have a total capacity of up to 1,116 MW and will consist of up to 186 turbines. The projects are yet to enter construction and accurate project timelines are not currently known. Project details can be accessed at: <http://www.morayoffshorerenewables.com/Home.aspx>.

MORL Western Development Area

(parameters detailed in the project Scoping document to be considered unless superseded)

Proposed by MORL, and at the scoping stage, the project will consist of up to 90 wind turbines with a total capacity of up to 750 MW located in the Moray Firth. Project details are available at: <http://www.gov.scot/Topics/marine/Licensing/marine/scoping/MORLWest>.

Kincardine Floating Offshore Windfarm

(as-consented parameters to be considered)

A pilot-scale offshore wind farm project utilizing floating foundation technology. Proposed by Kincardine Offshore Wind Limited (KOWL), the project is located south-east of Aberdeen approximately 15 km from the coastline and will comprise of 8 turbines generating up to 50 MW. The project was consented in March 2017. Project details can be found at: <http://www.gov.scot/Topics/marine/Licensing/marine/scoping/Kincardine>.

Beatrice Wind Farm Demonstrator Project

(as built parameters to be considered)

Two 5 MW wind turbines in the Moray Firth, operational since 2007.

Forthwind Wind Farm Demonstrator Project - Phase 1

(as-consented parameters to be considered)

Consented in December 2016, a 2 turbine project located 1.5km offshore of Methil in the Firth of Forth with a capacity of up to 18MW. Project details can be found at: <http://www.gov.scot/Topics/marine/Licensing/marine/scoping/FW-Methil/s36consent>.

Forthwind Wind Farm Demonstrator Project – Phase 2

(parameters detailed in the project Scoping document to be considered unless superseded)

Proposed by Forthwind, and at the scoping stage, the project will consist of up to 9 wind turbines with a total capacity of up to 65 MW located in the Firth of Forth. Project details are available at: www.gov.scot/Topics/marine/Licensing/marine/scoping/fowda.

Offshore Renewable Energy Catapult Levemouth

(as built parameters to be considered)

The 7MW demonstration offshore wind turbine located at the Fife Energy Park off the East Fife coast was acquired by ORE Catapult in December 2017. The turbine was consented to operate until 2019. ORE Catapult were issued a Scoping Opinion in July 2017 in response to their Scoping Request in relation to an application to extend the operational lifecycle of the Project for a further 10 years.

Blyth Offshore Wind Demonstrator Project

(as-consented / built parameters to be considered)

The 15 turbine demonstrator project is located 5.7 km off the coast of Blyth, Northumberland and was granted consent in October 2013. Construction of an initial phase comprised of 5 turbines commenced in spring 2017 and was completed in late 2017. The five installed turbines will have a maximum generating capacity of 41.5 MW. Project details are available at: <http://www.edf-er.com/OurProjects/ConsentedUnderconstruction/BlythOffshore.aspx>

Blyth Offshore Wind Farm

(as built parameters to be considered)

The original Blyth pilot project comprises two 2 MW turbines that were installed and commissioning in 2000. The 2 pilot project turbines are now being decommissioned.

Dogger Bank Creyke Beck A & B

(as-consented parameters to be considered)

Consented in February 2015 by the Secretary of State, the Dogger Bank Creyke Beck projects are located in the central North Sea (131km from the nearest coastline) and with a consented project capacity of up to 2.4GW. Further details on the consents are available from: <https://infrastructure.planninginspectorate.gov.uk/projects/yorkshire-and-the-humber/dogger-bank-creyke-beck/>.

Dogger Bank Teesside A & B

(as-consented parameters to be considered)

Located adjacent to the Creyke Beck projects, the Teesside A and B projects were consented by the Secretary of State in August 2015 with a capacity of up to 2.4GW. Further details on the consents are available from: <https://infrastructure.planninginspectorate.gov.uk/projects/yorkshire-and-the-humber/dogger-bank-teesside-ab/>.

Rampion Round 3 Offshore Wind Farm

(as built parameters to be considered)

E.ON Climate and Renewables UK Ltd. are currently constructing this offshore wind farm, under joint ownership with Enbridge and the UK Green Investment Bank. The project is located in South East England, off the coast of in the English Channel and comprises 116 WTGs with a capacity of 400 MW. The first turbine was installed in March 2017. The project has been identified with cumulative effects in relation to the Revised Development with respect to Shipping and Navigation.

East Anglia THREE Offshore Wind Farm

The 1200 MW East Anglia THREE Offshore Wind Farm will be located approximately 74km off the Suffolk Coast in the southern North Sea, and will comprise of 172 turbines. Further details on the consents are available from: <https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-three-offshore-wind-farm/>

East Anglia ONE Offshore Wind Farm

(as consented parameters to be considered)

The 714MW East Anglia ONE Offshore Wind Farm will be located approximately 43km off the Suffolk Coast in the southern North Sea, and will comprise of 102 turbines. Further details on the consents are available from: <https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-one-offshore-windfarm/>

Hornsea Project One

(as consented parameters to be considered)

Located approximately 120 kilometres off the Yorkshire coast, Hornsea Project One will comprise 174 7 MW turbines. Construction is due to complete in 2020. Further details on the consents are available from: <https://infrastructure.planninginspectorate.gov.uk/projects/yorkshire-and-the-humber/hornsea-offshore-wind-farm-zone-4-project-one/>

Hornsea Project Two

(as consented parameters to be considered)

The project is located approximately 89km off the Yorkshire coast and will comprise of up to 300 turbines with a maximum generating capacity of 1800 MW. Further details on the consents are available from: <https://infrastructure.planninginspectorate.gov.uk/projects/yorkshire-and-the-humber/hornsea-offshore-wind-farm-zone-4-project-two/>

Hornsea Project Three

(as proposed parameters to be considered)

Located 120 km off the north Norfolk coast Hornsea Project Three will comprise of up to 342 turbines with a maximum generating capacity of 2,400 MW. Further details of the proposal are available at: <http://hornseaproject3.co.uk/en/Documents-library/PEIR-Documents>

Dudgeon Offshore Wind Farm

(as built parameters to be considered)

The 402 MW offshore wind farm is located 32 km off the North Norfolk coast and will comprise of 67 turbines. The project was commissioned in November 2017. Further details of the project are available at: <http://dudgeonoffshorewind.co.uk/>

Humber Gateway

(as built parameters to be considered)

The 73 turbine wind farm has a maximum generating capacity of 219MW and is located 8km off the Holderness coast. The project has been fully operational since April 2015. Further details of the project are available at: <https://www.eonenergy.com/about-eon/our-company/generation/our-current-portfolio/wind/offshore/humber-gateway>

Lincs Offshore Wind Farm

Lincs Offshore Wind Farm has been fully operational since 2013. Situated off the east coast of England, the project comprises 75 turbines with a combined total capacity of 270 MW. Further details of the project are available at: https://orsted.co.uk/-/media/WWW/Docs/Corp/UK/Project-Summaries/Project-Summary_Lincs.ashx?la=en&hash=46B96922A9E044DA69D4D8543800B87F05588470

Race Bank

Race Bank Wind Farm is a 573 MW comprised of 91 turbines wind farm located 27 km north of Blakeney Point off the coast of Norfolk, and 28 km east of Chapel St Leonards off the Lincolnshire coast in the North Sea. The farm was commissioned in February 2018.

Teeside

Teesside Wind Farm is comprised of 27 turbines with a generating capacity of 62 MW and is located just to the east of the mouth of the River Tees and 1.5 km north of Redcar off the North Yorkshire coast. Teesside was commissioned in April 2016.

Triton Knoll

Triton Knoll is a consented offshore wind farm being develop located 20 miles off the coast of Lincolnshire and 28 miles from the coast of north Norfolk. The project received a Contract for Difference from the UK Government in September 2017, as well as consent for the offshore array in July 2013 and the onshore electrical system on 3 September 2016. Further project details are available at: <http://www.tritonknoll.co.uk/>

Westermost Rough

Westermost Rough is located 8 kilometres north east of Withernsea off the Holderness coast, in the North Sea, and comprises 35 turbines with a maximum generating capacity of 210 MW. The Project was commissioned in May 2015. Further details of the project are available at: <https://orsted.co.uk/en/Generating-energy/Offshore-wind/Our-wind-farms>

Galloper Wind Farm

Galloper Wind Farm is a 353MW offshore wind farm project comprised of 56 turbines, currently being constructed 30km off the coast of Suffolk. The project will be fully operational in 2018. Further details are available from: <http://www.galloperwindfarm.com/>

Greater Gabbard

Greater Gabbard is a 504 MW offshore wind farm located 23 km off the Suffolk coast comprised of 140 turbines. The project was fully commissioned in September 2012. Further details are available from: <http://sse.com/whatwedo/ourprojectsandassets/renewables/GreaterGabbard/>

Kentish Flats

Kentish Flats is an offshore wind farm located approximately 8.5 to 13 km north of Herne Bay and Whitstable in Kent. The wind farm has been operational since 2005 and consists of 30 3MW wind turbines, with a combined capacity of 90MW. Further details are available from: <https://corporate.vattenfall.co.uk/projects/operational-wind-farms/kentish-flats/>

London Array

The London Array is a 175 turbine 630 MW Round 2 offshore wind farm located 20 km off the Kent coast in the outer Thames Estuary in the United Kingdom. The project has been fully operational since July 2014. Further details are available at: <http://www.londonarray.com/>

Thanet Offshore Wind Farm

Thanet Offshore Wind Farm is located approximately 12 km off Foreness Point, Margate, and the most eastern part of Kent. The wind farm has been operational since 2010 and consists of 100 3MW wind turbines and has a combined maximum installed capacity of 300MW. Further details are available at: <https://corporate.vattenfall.co.uk/projects/operational-wind-farms/thanet/>

3 Other Marine Projects

Aberdeen Harbour Expansion Project

Aberdeen Harbour Board was awarded a Marine Licence in November 2016 to construct additional harbour facilities to the south of the current Aberdeen Harbour into Nigg Bay. The harbour extension will comprise of 1,400 metres of quay at water depths of up to 10.5 metres (LAT), with a turning circle of 300 metres and a channel width of 165 metres. Construction commenced in the summer of 2017 and completion is scheduled for summer 2020.

Rosyth International Container Terminal

Port Babcock Rosyth have applied for a Harbour Revision Orders (HRO) to allow creation of a new container freight terminal on brownfield land at the Port of Rosyth, in Fife. In addition, a Scoping Opinion was issued by Scottish Ministers in April 2014 in response to a Scoping Request for a Marine Licence application which detailed proposals to carry out in-estuary works associated with the HRO. The proposal includes dredging to create a berthing pocket and channel 9.5m deep and installation of quaysides, with mobile cranes, freight stations and offices.

4 Onshore Wind Farms (considered within SLVIA)

Wind Farm	Planning status	Number of turbines	Distance from the Wind Farm Area (km)
Kenly	Consented	6	23
Bonerbo, Drumrack and Balmonth Farms	Operational	3	26
Kinegar Quarry	Consented	2	33
Moorhouse Farm	Consented	2	34

Wind Farm	Planning status	Number of turbines	Distance from the Wind Farm Area (km)
Drone Hill	Operational	22	34
Penmanshiel	Operational	14	35
Ferneylea Farm	Operational	2	35
Ferneylea Farm 2	Application Submitted	6	35
Hoprigshiels	Operational	3	35
Howpark Farm	Appeal/Public Inquiry	8	35
Aikengall	Operational	16	36
Crystal Rig - Phase 3	Operational	7	37
Aikengall II - Wester Dod	Operational	19	37
Aikengall IIa	Consented	19	38
Crystal Rig - Phase 1	Operational	20	38
Crystal Rig - Phase 2a	Operational	9	38
Quixwood	Operational	13	38
Crystal Rig - Phase 2	Operational	56	38
Crystal Rig - Phase 1a	Operational	5	39
Brockholes	Operational	3	39
Michelin Tyre Factory (Dundee)	Operational	2	41
Weirburn House	Consented	2	41
Clatto Farm	Application Submitted	3	45
Black Hill	Operational	22	47
Woodbank Farm	Consented	1	47
Earlseat Farm	Operational	8	49
Frawney	Consented	5	49
Fallago Rig	Operational	48	49
Govals Farm	Consented	6	50
Fallago Rig 2	Application Submitted	12	50
Middle Balbeggie Farm	Consented	2	53

Wind Farm	Planning status	Number of turbines	Distance from the Wind Farm Area (km)
Noble Foods	Operational	1	54
Ark Hill	Operational	8	54
Brotherton Estate	Operational	2	54
Skeddoway Farm	Operational	1	54
Keith Hill	Under Construction	5	55
Pogbie Extension	Consented	6	56
Pogbie	Consented	6	56
Tullo	Operational	8	57
Gilston Hill	Application Submitted	7	57
Easter Tulloch	Operational	3	57
Shiels	Operational	3	58
Tullo Extension	Operational	3	58
Dun Law - Phase 2	Operational	35	58
Dun Law - Phase 1	Operational	26	58
Westfield	Operational	5	59
Gevens Wind Cluster	Operational	3	60
St John's Hill	Operational	9	61
Whitton Farm	Consented	2	62
Binn Eco Park	Consented	4	62
Toddleburn	Operational	12	62
Little Raith	Operational	9	63
Goathill Quarry	Operational	1	65
Barmoor	Operational	6	65
Herscha Extension	Consented	2	66