

EUROPEAN OFFSHORE WIND ENERGY PROJECTS

Maps
&
Project Tables

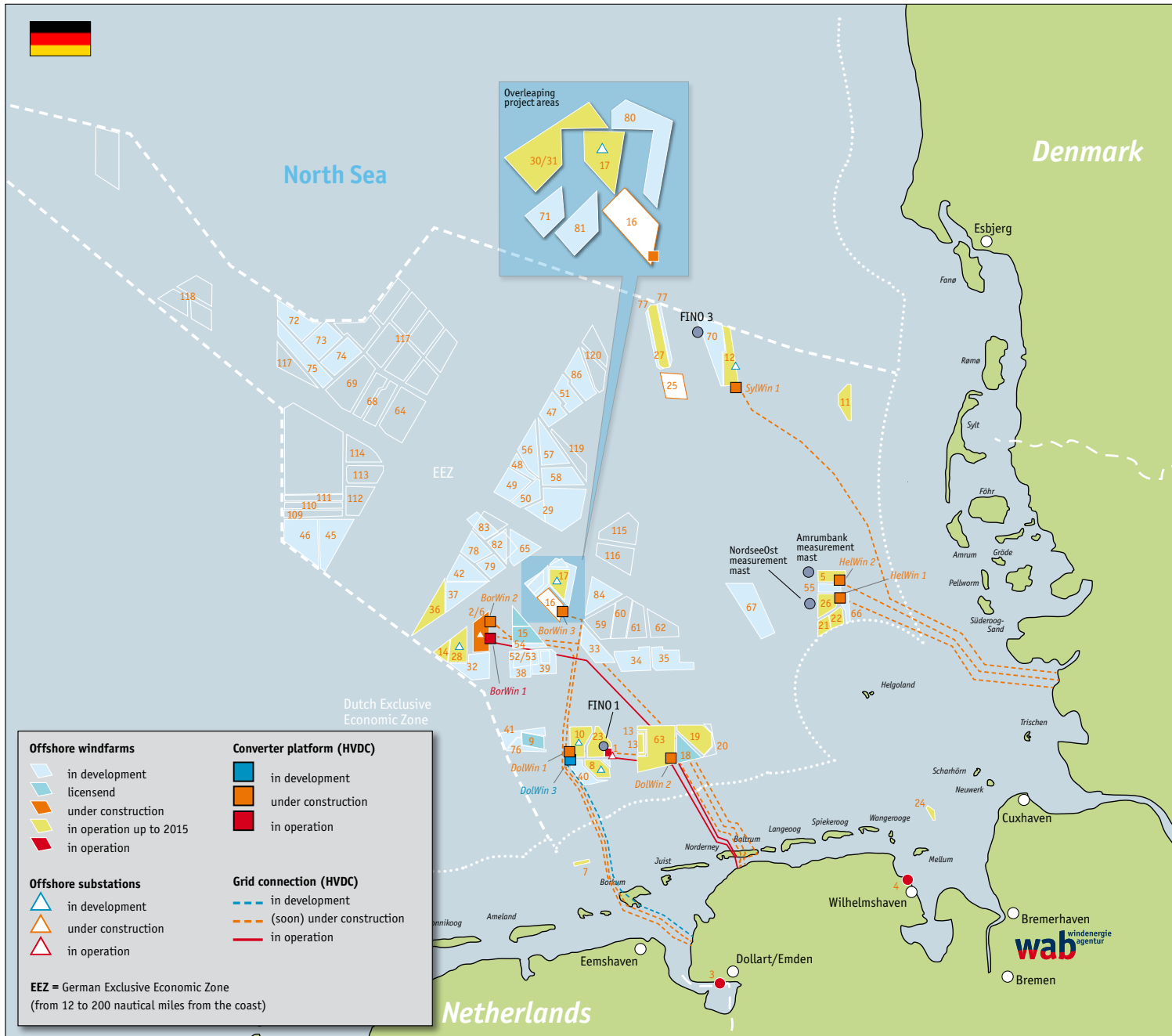
A4-printable Version



OFFSHORE BHV 1

BLG LOGISTICS

WeserWind GmbH
Offshore-Construction-Georgsmarienhöhe



NORTH SEA

No	Project name
OPERATIONAL	
1	alpha Ventus
2	BARD Offshore 1
3	Dollart Emden
4	Hooksiel
LICENSED WIND FARMS	
5*	Amrumbank West
6**	BARD Offshore 1
7	Borkum Riffgat
8	Borkum Riffgrund I
9	Borkum Riffgrund West
10*	Borkum West II
11*	Butendiek
12*	Dan Tysk
13*	Delta Nordsee 1 und 2
14*	Deutsche Bucht
15	EnBW He Dreiht
16	EnBW Hohe See
17*	Global Tech I

18	Gode Wind I
19*	Gode Wind II
20	Gode Wind III
21	Meerwind Süd
22*	Meerwind Ost
23*	MEG 1
24*	Nordergründe
25*	Nördlicher Grund
26*	Nordsee Ost
27*	Sandbank 24
28*	Veja Mate

WIND FARMS UNDERGOING LICENSING PROCEDURES	
29	Aiolos
30	Albatros
31*	Albatros 1
32	Aquamarin
33	Area C I
34	Area C II
35	Area C III
36	Austerngrund
37	Bernstein
38	Bight Power I
39	Bight Power II
40	Borkum Riffgrund II
41	Borkum Riffgrund West II
42	Citrin
43	Dan Tysk Ost
44	Dan Tysk West
45	Diamant
46	Euklas

47	GAIA I
48	GAIA II
49	GAIA III
50	GAIA IV
51	GAIA V
52	Global Tech II
53	Global Tech III
54	He Dreiht II
55	Hochsee Testfeld Helgoland
56	Horizont I
57	Horizont II
59	OWP Gannet
60	OWP Heron
61	OWP Seagull
62	OWP Petrel
63	Innogy Nordsee I
64	Jules Verne
65	Kaikas
66	Kaskasi

67	Meerwind West
68	Nautilus
69	Nemo
70	Nordpassage
71	Notos
72	NSWP 4
73	NSWP 5
74	NSWP 6
75	NSWP 7
76	OWP West
77	Sandbank 24 Extension
78	Sea storm I
79	Sea storm II
80	Sea Wind I
81	Sea Wind II
82	Sea Wind III
83	Sea Wind IV
84	Skua
85	Weiß Bank
86	Witte Bank



BALTIC SEA

109	Prowind 1
110	Prowind 2
111	Prowind 3
112	Neptun (A)
113	Neptun (B)
114	Neptun (C)
115	Neptun (D)
116	Neptun (E)
117	Enova Offshore NSWP
118	TAGU
119	Mainstream
120	Norderland

No	Project name
OPERATIONAL	
88	Breitling / Rostock
89	Baltic 1
LICENSED WIND FARMS	
90	Arkona Becken Südost
91	Baltic 2
92	Geofree
93	Wikinger (ehem. Ventotec Ost 2)

WIND FARMS UNDERGOING LICENSING PROCEDURES

94	Adlergrund 500
95	Adlergrund GAP
96	Adlergrund Nordkap
97	Arcadis Ost 1
98	Arcadis Ost 2
99	ArkonaSee Ost
100	ArkonaSee West
101	ArkoneSee Süd
102	Baltic Power East
103	Baltic Power West
104	BalticEagle
105	Beltsee
106	Beta Baltic
107	Strom-Nord
108	Windanker

Building a German Offshore Wind Industry
www.wab.net

IMPRINT

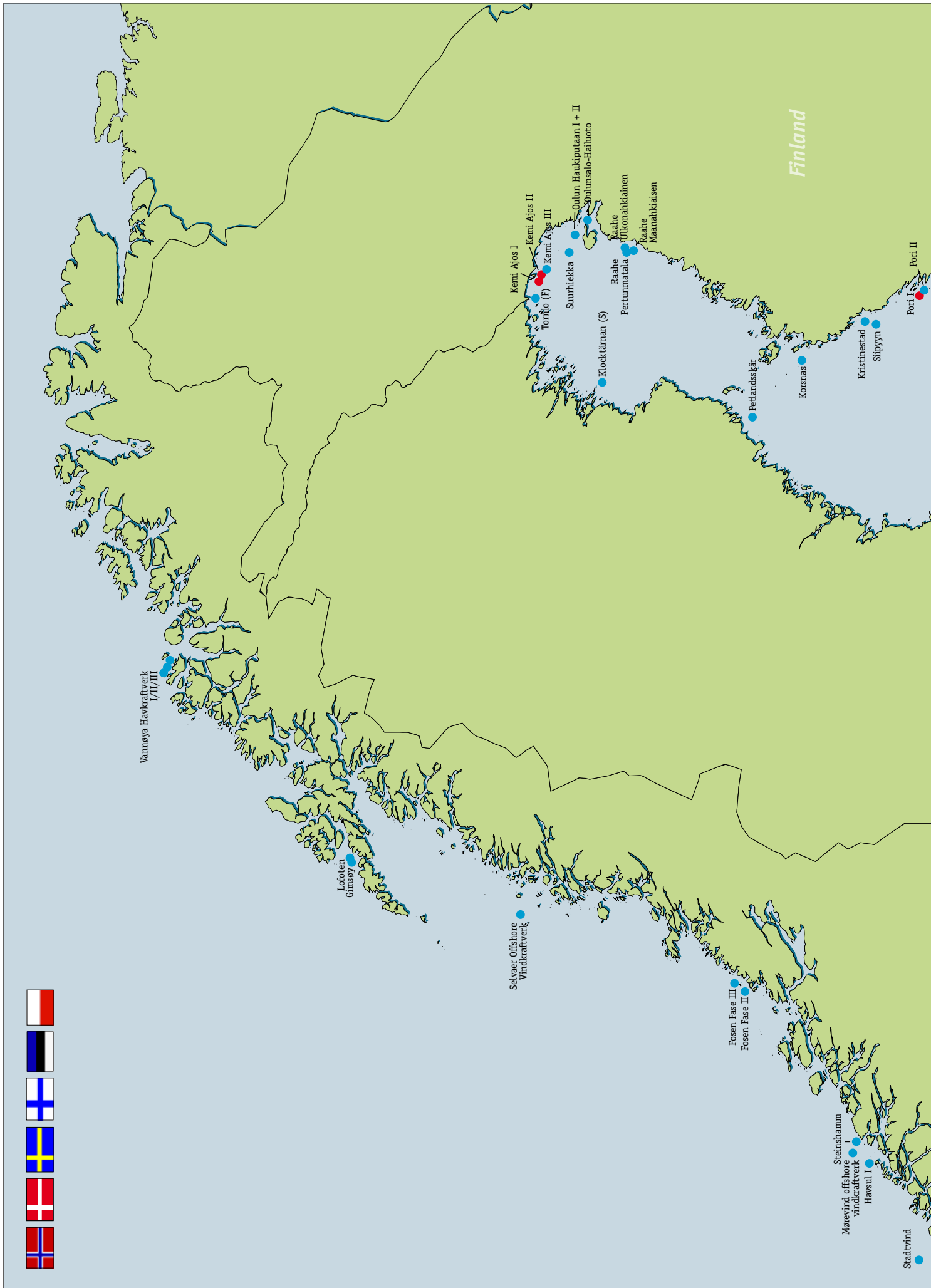
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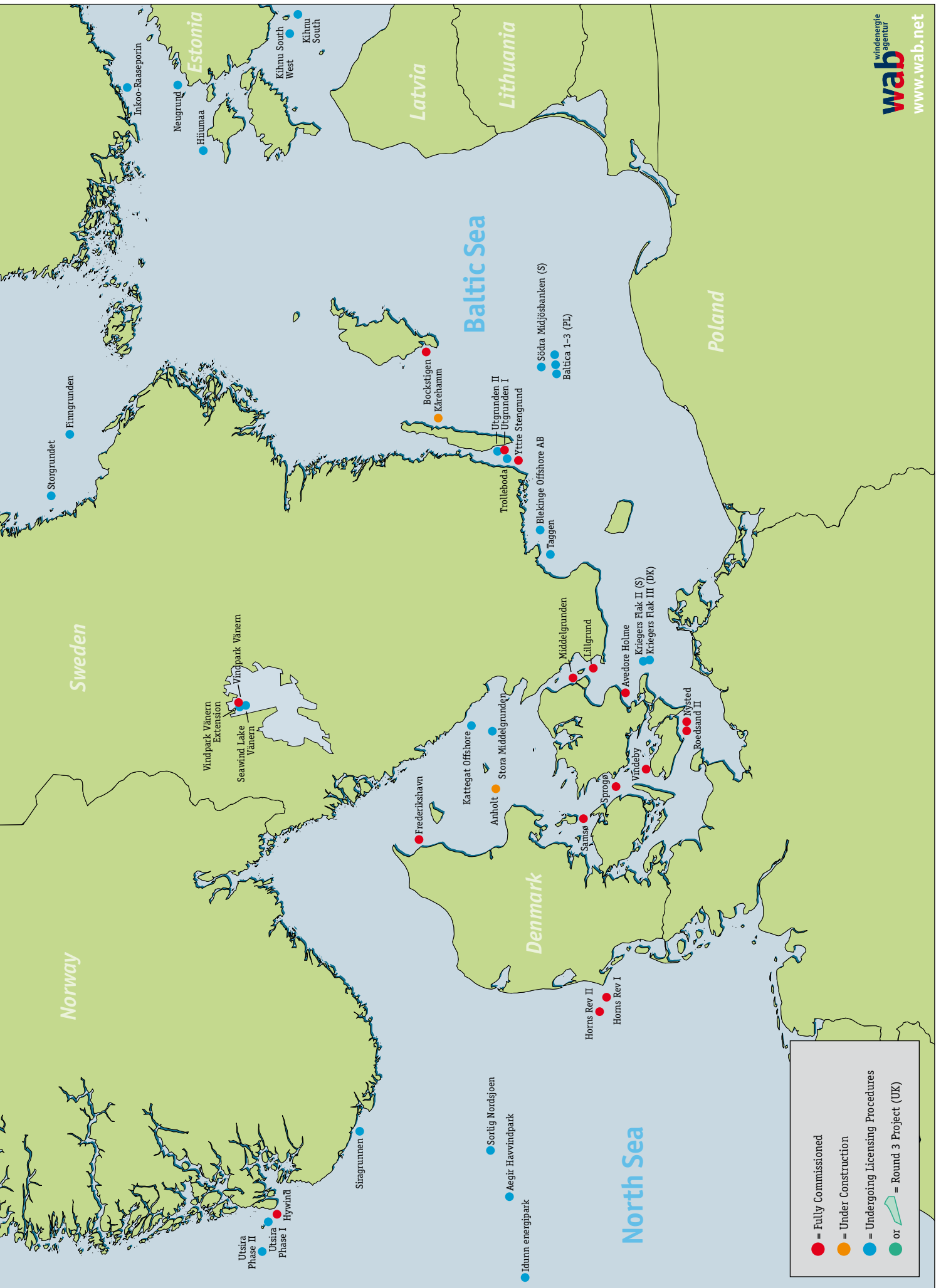


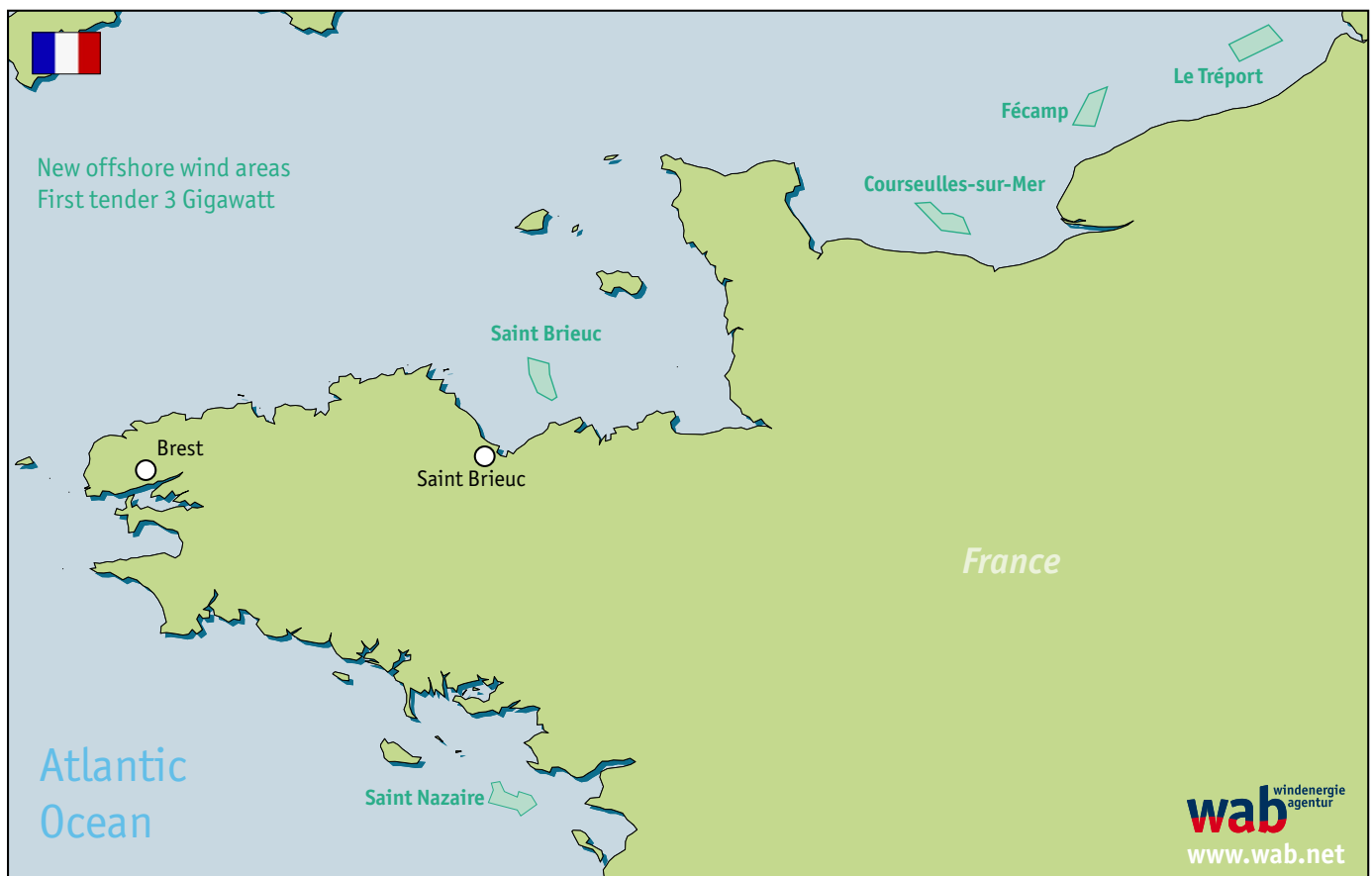
Round 3 Projects in Great Britain













No	Project name	In operation	Map zoom detail	Operator/Developer/Owner	Construction start	Wind turbine manufacturer/type	Output per WTG [MW]	Number of WTG	Sum output Wind-farm [MW]	Distance to nearest coast [Km]	Distance to nearest Harbour [sm]	Water depth [m]
🇧🇪 BELGIUM												
1	Belwind I		B	Belwind	2009	Vestas V90	3	55	165	46	25	20 – 37
2	Belwind II		B	Belwind	2013	Vestas V90	3	55	165	46		15 – 37
3	North Sea Power		B	Eneco			6	60	360	24		13
4	Northwind (Eldepasco)		B	Northwind	2013	Vestas V112	3	43	129	37		15
5	Rentel		B	Electrawinds 12,5%, RENT-A-PORT 12,5%, Aspiravi 12,5%, Power@Sea 12,5%, DEME 12,5%, SRIW 12,5%, Socofe 12,5%, Nuhma 12,5%	2015		6	48	288	33		23
6	Seastar		B	RENT-A-PORT 12,5%, Aspiravi 12,5%, Power@Sea 12,5%, DEME 12,5%, SRIW 12,5%, Socofe 12,5%, Nuhma 12,5%	2015		6	41	246	39.3		23
7	Thornton Bank I	●	B	C-Power, Socofe 11,26%, DEME 11.67%, Nuhma 20,8%, EDF Energies Nouvelles 18,28%, RWE Innogy 26,73%, Societe Regionale d` Investissement de Wallonie	2009	REpower 5M	5	6	30	27		25
8	Thornton Bank II		B	C-Power, Socofe 11,26%, DEME 11.67%, Nuhma 20,8%, EDF Energies Nouvelles 18,28%, RWE Innogy 26,73%, Societe Regionale d` Investissement de Wallonie	2011	REpower 6M	6.15	24	148	27		6 – 20
9	Thornton Bank III		B	C-Power, Socofe 11,26%, DEME 11.67%, Nuhma 20,8%, EDF Energies Nouvelles 18,28%, RWE Innogy 26,73%, Societe Regionale d` Investissement de Wallonie	2011	REpower 6M	6.15	24	148	26		10
🇩🇰 DENMARK												
1	Avedore Holme			DONG Energy	2009	Siemens SWT-3.6-120	3.6	3	11	1.4		6
2	Djursland Anholt			DONG Energy	2012	Siemens SWT-3.6-120	3.6	111	400	1.4		6
3	Frederikshavn	●		DONG Energy		Nordex N90/2300, Vestas V90 3 MW, Bonus 82.4 2,3 MW	2	4	11	3.2		1
4	Horns Rev I	●		DONG Energy (40 %); Vattenfall (60%)	2002	Vestas V80	2	80	160	17.9	22	6
5	Horns Rev II	●		DONG Energy	2009	Siemens SWT-2.3-93	2.3	91	209	31.7		9
6	Kriegers Flak III	●		wpd offshore	2015		5	91	455	25		15
7	Middelgrunden	●		Middelgrunden Wind Turbine Cooperative; E2	2001	BONUS Energy A/S - AN BONUS 2.0	2	20	40	4	5	3
8	Nysted	●		Dong Energy 42,75%, Stadtwerke Lübeck 7,25%, Pension Denmark 50%	2003	BONUS Energy A/S - AN BONUS 2.3	2.3	72	166	8	8	6 – 9
9	Roedsand II	●		E.ON climate and renewables	2010	Siemens SWT-2.3-82	2.3	90	207	4		10
10	Samsø	●		E.on	2002	BONUS Energy A/S - AN BONUS 2.3	2.3	10	23	4	8	11 – 18
11	Sprogø	●		Sund & Baelt Holding	2009	Vestas V90	3	7	21	10.6		6
12	Tunø Knob	●		DONG Energy	1995	Vestas V39	0.5	10	5	6		4 – 7
13	Vindeby	●		DONG Energy	1991	Bonus B35/450	0.45	11	5	1.8		3

 **ESTONIA**

1	Hiiumaa		Hiiumaa Offshore Tuulepark OÜ (LLC)	2017		5	200	1,000	15		8 – 38
2	Kihnu South		Esti Energia					560			17 – 23
3	Kihnu South West		Esti Energia					245			7 – 24
4	Neugrund		OÜ Neugrund			5	38	190	3		3 – 20

 **FINLAND**


1	Inkoon-Raaseporin		Suomen merituuli, EPV Energie, Helsingin Energie	2015		5	60	300	13		5 – 20
2	Kemi Ajos I		PVO-Innopower Oy, Pohjolan Voima	2007	WWD-3-100 (WinWinD)	3	5	15	3		1 – 7
3	Kemi Ajos II		PVO-Innopower Oy, Pohjolan Voima	2008	WWD-3-100 (WinWinD)	3	5	15	3		1 – 7
4	Kemi Ajos III		PVO-Innopower Oy, Pohjolan Voima			5	64	320	7.8		8
5	Korsnäs		wpd offshore	2016			160	0	15		2 – 12
6	Kristinestad		PVO-Innopower Oy, Pohjolan Voima	2013		5	73	365	2.2		5
7	Oulun Haukiputaan alue 1		PVO-Innopower Oy, Pohjolan Voima	2016		5	32	160	5		1 – 17
8	Oulun Haukiputaan alue 2		PVO-Innopower Oy, Pohjolan Voima	2016		5	130	650	5		1 – 17
9	Oulunsalo-Hailuoto		Oulun Seudun Sahko, Metsähallitus, Lumituuli Oy	2015		3.6	50	180	5		1 – 8
10	Ostra Skargarden		Alands Vindenergi Andelslag			3	40	120			
11	Pori I		Suomen Hyötytuuli Oy	2010	Siemens SWT-2.3-101	2.3	1	2	6.6		16 – 19
12	Pori II		Suomen Hyötytuuli Oy			5	30	150	6.1		12 – 16
13	Raahe - Maanahkiaisen		Rajakiiri Oy	2015		5	100	500	5		2 – 18
14	Raahe - Pertunmatala		Suomen Hyötytuuli Oy			3	24	72			
15	Raahe - Ulkonahkiainen		Suomen Hyötytuuli Oy			3	70	210	20		10 – 15
16	Siipyn		Suomen merituuli, EPV Energie, Helsingin Energie			5	80	400	7		3 – 14
17	Suurhiekka		wpd offshore	2014		5	80	400	6		3 – 25
18	Tornio		Rajakiiri Oy	2015		5	45	225	4		2 – 9

 **FRANCE (Project areas 3 GW)**

1	Le Tréport	A			Alstom			750			
2	Courseulles-sur-Mer	A	wpd, EDF, Alstom, Dong Energy		Alstom			500			
3	Fécamp	A	wpd, EDF, Alstom, Dong Energy		Alstom			500			
4	Saint-Brieuc	A	Iberdrola-Eole-RES		Alstom			500			
5	Saint-Nazaire	A			Alstom			750			

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🇬🇧 GREAT BRITAIN												
1	Argyll Array		A	RWE npower renewables						14		23
2	Atlantic Array (Round 3)		A	RWE npower renewables	2015		5	300	1,500	27		19 – 61
3	Barrow	●	A	Centrica, DONG Energy	2005	Vestas V90	3	30	90	7		15
4	Beatrice	●	A	Scottish & Southern Energy 75%, Repsol Nuevas Energies			184	5	920	15		35 – 50
5	Beatrice Demonstration Project		A	Talisman Energy Ltd.	2005	REpower 5M	5	2	10	23		45
6	Blyth	●	A	E.ON climate & renewables	2000	Vestas V66	2	2	4	1		8
7	Burbo Bank	●	A	DONG Energy	2007	Siemens SWT-3.6-107	3.6	25	90	6.4		2
8	Burbo Bank Extension		A	DONG Energy	2014		3.6	65	234	11.4		2
9	Docking Shoal		A	Centrica Renewable Energy	2015		6	177	1,062	20		3 – 14
10	Dogger Bank (Round 3)		A	Statoil, SSE Renewables, RWE Npower Renewables, Statkraft (je 25%)	2016		3.6	1667	6,001	197		18
11	Dogger Bank Project One (Round 3)		A	Statoil, SSE Renewables, RWE Npower Renewables, Statkraft (je 25%)	2016		3.6	389	1,400	197		18
12	Dogger Bank Tranche A (Round 3)		A	Statoil, SSE Renewables, RWE Npower Renewables, Statkraft (je 25%)	2016		3.6	444	1,598	197		18
13	Dudgeon		A	Warwick Energy	2011				0			
14	East Anglia Five (Round 3)		A	Vattenfall 50%, Scottish Power Renewables 50%	2016		5	240	1,200	54		5
15	East Anglia Four (Round 3)		A	Vattenfall 50%, Scottish Power Renewables 50%	2016		5	240	1,200	54		5
16	East Anglia One (Round 3)		A	Vattenfall 50%, Scottish Power Renewables 50%	2016		5	246	1,230	44		32
17	East Anglia Six (Round 3)		A	Vattenfall 50%, Scottish Power Renewables 50%	2016		5	240	1,200	54		5
18	East Anglia Three (Round 3)		A	Vattenfall 50%, Scottish Power Renewables 50%	2016		5	240	1,200	54		5
19	East Anglia Two (Round 3)		A	Vattenfall 50%, Scottish Power Renewables 50%	2016		5	240	1,200	54		5
20	Eneco Wind Park (Round 3)		A				3	300	900	21		28
21	Firth of Forth Phase 1 (Round 3)		A	Fluor 50%, SSE Renewables 50%			5	215	1,075	43		31
22	Firth of Forth Phase 2 (Round 3)		A	Fluor 50%, SSE Renewables 50%					0	77		37
23	Firth of Forth Phase 3 (Round 3)		A	Fluor 50%, SSE Renewables 50%			5	191	955	38		32
24	Galopper Wind Farm (Greater Gabbard Extension)		A	SSE, RWE npower renewables			3.6	140	504	39		4
25	Greater Gabbard	●	A	Greater Gabbard Offshore Winds (GGOWL) - Airticity 50%/Fluor 50%	2010	Siemens SWT-3.6-107	3.6	140	504	25		24
26	Gunfleet Sands 1	●	A	Dong Energy 50,1% Marubeni 49,9%	2009	Siemens SWT-3.6-107	3.6	30	108	7		13
27	Gunfleet Sands 2	●	A	Dong Energy 50,1% Marubeni 49,9%	2010	Siemens SWT-3.6-107	3.6	18	65	7		13
28	Gwynt y Mor		A	RWE npower renewables 60%, Siemens 10%, Stadtwerke München 30%	2010	Siemens SWT-3.6-107	3.6	160	576	20		12
29	Hornsea II bis IV, Heron, Njord		A	Mainstream Renewable Power, Siemens, Dong Energy	2016			668	0	100		24 – 59
30	Humber Gateway		A	E.ON climate renewables	2014	Vestas V112	3	73	219	10		13

31	Inch Cape	A	EDP Renovaveis 49%, Repsol 51%	2015		5	181	905	16	41
32	Inner Dowsing	● A	Centrica, TCW Group	2008	Siemens SWT-3.6-107	3.6	27	97	5	18
33	Irish Sea	A	Centrica Renewable Energy			6	700	4,200	38	26
34	Islay	A	Scottish & Southern Energy			5	138	690	16	26
35	Kentish Flats	● A	Vattenfall Europe Windkraft	2005	Vestas V90	3	30	90	10	5
36	Kentish Flats 2 (Extension)	A	Vattenfall Europe Windkraft	2013			17	0	9	5
37	Kintyre	A	Scottish & Southern Energy	2015		3.6	105	378	5	16 – 67
38	Lincs	A	DONG Energy	2011	Siemens SWT-3.6-120	3.6	75	270	8	10 – 15
39	London Array Phase 1	A	DONG Energy 50%, E.ON 30%, Masdar 20%	2011	Siemens SWT-3.6-120	3.6	175	630	20	23
40	London Array Phase 2	A	DONG Energy 50%, E.ON 30%, Masdar 20%	2014			166	0	20	23
41	Lynn	● A	Centrica, TCW Group	2008	Siemens SWT-3.6-107	3.6	27	97	5	6 – 11
42	2-B Energy Test side	A	2-B Energy	2012	2-B-Energy	6	2	12	1	5
43	Moray Firth Eastern Development Area (Round 3)	A	EDP Renovaveis 67%, Repsol 33%	2014			67	0	28	38
44	Moray Firth Western Development Area (Round 3)	A	EDP Renovaveis 67%, Repsol 33%	2014			66	0	28	35
45	Navitus Bay	A	Eneco/EDF Renovaveis	2016			240	900	20	28 – 58
46	Nearnt na Gaoithe	A	Mainstream Renewable Power			5	90	450	15	44
47	North Hoyle	A	RWE npower renewables	2003	Vestas V80	2	30	60	7	7
48	Ormonde	● A	Vattenfall Europe Windkraft	2010	REpower 5M	5	30	150	10	17 – 22
49	Race Bank	A	Centrica Renewable Energy	2014			206	0	20	22
50	Rampion (Hastings Zone 6)	A	E.ON climate & renewables	2016			95	665	13	19 – 50
51	Rhyl Flats	● A	RWE npower renewables	2009	Siemens SWT-3.6-107	3.6	25	90	11	6 – 15
52	Robin Rigg	● A	E.ON Climate & Renewables	2008	Vestas V90	3	60	180	10	9
53	Scroby Sands	A	E.ON Climate & Renewables	2003	Vestas V80	2	30	60	3	15
54	Sheringham Shoal	● A	Scira Offshore Energy, Statkraft, Statoil	2011	Siemens SWT-3.6-107	3.6	88	317	17	17
55	Teesside	● A	EDF Energy Renewables	2010	Siemens SWT-2.3-101	2.3	27	62	2	7
56	Thanet	● A	Vattenfall Europe Windkraft	2010	Vestas V90	3	100	300	11	14 – 23
57	Triton Knoll	A	RWE npower renewables	2018			333	1,200	33	8 – 28
58	Walney Extension	A	DONG Energy			5	150	750	29	21
59	Walney I	● A	DONG Energy 50.1%, Scottish & Southern Energy 25.1% and a consortium of PGGM and Dutch Ampère Equity Fund 24.8%	2010	Siemens SWT-3.6-107	3.6	51	184	20	18
60	Walney II	● A	DONG Energy 50.1%, Scottish & Southern Energy 25.1% and a consortium of PGGM and Dutch Ampère Equity Fund 24.8%	2011	Siemens SWT-3.6-120	3.6	51	184	22	24
61	West of Duddon Sands	A	ScottishPower Renewable 67%, DONG Energy 33%	2013	Siemens SWT-3.6-120	3.6	108	389	14	17 – 24
62	Westermost Rough	A	DONG Energy	2014		3.6	80	288	8	12 – 22

No	Project name	In operation	Map zoom detail	Operator/Developer/Owner	Construction start	Wind turbine manufacturer/type	Output per WTG [MW]	Number of WTG	Sum output Wind-farm [MW]	Distance to nearest coast [Km]	Distance to nearest Harbour [sm]	Water depth [m]
 GREECE												
1	Agios Efstratios			Terna Energy					98	30		0,5
2	Corfu 1			Ellaktor					162			3
3	Corfu 2			ENTEKA					30			
4	Diapontia Islands			Venergie					96			65
5	Dikella Alexandroupolis			George E. Voulgarakis					50	4		38
6	Etoloakarnia			Acciona					141			
7	Evia			EDF-G.Fakidis					135			
8	Golfe di Kymi			Canis					300	3		27 – 44
9	Kassos			Minoan Sea Wind Parks					350	12		4 – 44
10	Karpathos			EDF-G.Fakidis					350			
11	Kos			RF Energy					75			3
12	Limnos 1			RF Energy					500			
13	Limnos 2			Terma Energy					320			
14	Marathon Bay			Terma Energy			5	90	450			31 – 51
15	Marthakiou			ENTEKA					30			2 – 50
16	Mathraki			Jasper					275	17		15 – 65
17	Methones Kepoe			Terma Energy					320	5		12 – 59
18	Ormos Kalidhonos			Wind Kalydonos KX II					141	2		43
19	Othonous 1			Venergie (V.Panagiotidis)					261			
20	Othonous 2			Jasper					495			
21	Plaka 1			RF Energy					500	7		14 – 43
22	Plaka Keros AG Eirini			Rokas Northern Wind Hellas (Iberdrola)					486	10		6 – 50
23	Porto Lagos/Thassos Park			Greek Energikikontor					156	12		2 – 30
24	St. Efstratios			Jasper					445	30		24 – 70
25	Steno Kafirea			Argos Aiolos					150			4 – 46
26	Thrace 1			Therna Energy					585			14 – 36
27	Thrace 2			Copelouzos group					216			

 **IRELAND**

Due to receive an offer of a grid connection under gate 3. In January 20 2, as stated in the first report on the National Renewable Energy Action Plan, the Irish government decided not to include support for offshore wind the the Refit 2 (Renewable Energy Feed in Tariff) incentive mechanism. Consequently it is not economical to build commercial offshore wind projects in Ireland. The potential for exporting of electricity to the UK is being considered.

1	Arklow Bank	●		Airtricity / GE Energy	2003	General Electric GE 3,6sl	3.6	7	25	10	21.598	1 – 35
2	Codling Bank Extension			Fred. Olsen Renewables 50%, Treasury Holdings 50%			5	200	1,000	13		9 – 17
3	Dublin Array (Kish Bank, Bray Banks)			Saorgus Energy				145		3		20
4	Oriel			Oriel Windfarm Ltd.			6	55	330	8		17
5	Sceirde (Skerd) Rocks			Fuinneamh Sceirde Teoranta			5	20		5.9		15

 **ITALY**





1	Chieuti		Trevi Finanziaria Industriale SpA	2015		3	50	150	5		17 – 24
2	Gargano Sud		wpd offshore	2015	Siemens SWT 3.6	3.6	95	342	10		14 – 22
3	Golfo di Manfredonia		Trevi Finanziaria Industriale SpA					300			15 – 20
5	Golfo di Trieste		Ansaldo sistemi industriali					30	24		
6	Is Arenas		Is Arenas Renewables Energies s.r.l.				80	320	6		17 – 34
7	Margherita di Savoia		Tozzi Holding S.r.l.	2015		6	120	720	5		15 – 20
8	San Michele		Effeventi S.r.l.	2013		3	54	162	4.5		12 – 20
9	Secche di Vada		PRO GECCO s.r.l., Ravano Green Power			3	20	60			
10	Torre San Gennaro		Trevi Finanziaria Industriale SpA	2015		3	50	150	4.6		17 – 30
11	Tricase		Sky Saver s.r.l (Blue H)		Blue H		26	92	20		118

 **MALTA**

1	Hexicon		Hexicon Malta Ltd.	2014		6.5	6	39	19		100 – 150
2	Hexicon		Hexicon Malta Ltd.	2014		0.5	30	15	19		100 – 150
3	Sikka I-Bajda		Malta Resources Authority			5	19	95	2		10 – 35

 **NETHERLANDS**

1	Buitengaats	B	Typhoon Offshore, HVC, (Bard)			5	60	300			
2	Clearcamp	B					55	275			
3	Egmond aan Zee	B	Nuon, Shell	2006	Vestas V90	3	36		10	8.099	18 – 20
4	Princess Amalia Windfarm (Q7)	B	Econcern, Eneco / E-Connection	2007	Vestas V80	2	60		23		20 – 25
5	Luchterduinen (former name: Q10)	B	Eneco	2014	Vestas V112		43	129			
6	Tromp Binnen	B	RWE Innogy / RWE Energy Netherland	2012					64		26
7	Zee Energie	B	Typhoon Offshore, HVC, (Bard)				60	300			

No	Project name	In operation	Map zoom detail	Operator/Developer/Owner	Construction start	Wind turbine manufacturer/type	Output per WTG [MW]	Number of WTG	Sum output Wind-farm [MW]	Distance to nearest coast [Km]	Distance to nearest Harbour [sm]	Water depth [m]
 NORWAY												
1	Ægir Havvindpark			OceanWind AS, 50% Scatec and 50% Grieg Group				200		171		53
2	Fosen Offshore Vindpark-Fase II			Offshore Vindenergi AS			5	60		3		10
3	Fosen Offshore Vindpark-Fase III			Offshore Vindenergi AS			5	60		8		10
4	Gimsøy Offshorepark			Troms Kraft AS, SKS, Nordkraft, Lofotkraft Holding AS			3 – 5.5	45 – 85		1		21
5	Havsul I			Vestavind Offshore AS			5	10		20		1
6	Hywind	●		Statiol ASA/Siemens - floating foundation	2009		2.3	1		10		220
7	Idunn energipark			Fred Olsen Renewables Ltd			6	200		250		65
8	Lofoten Havkraftverk			Troms Kraft AS, SKS, Nordkraft, Lofotkraft Holding AS			3-6	250		2		23
9	Mørevind offshore vindkraftverk			TrönderEnergi AS			5	240		22		48
10	Selvaer Offshore vindkraftverk			Troms Kraft AS, SKS, Nordkraft, Lofotkraft Holding AS			4.5	100		35		
11	Siragrunnen			HAVGUL Clean Energy AS			3-8	25 – 67		1		11
12	Sortlig Nordsjoen			Lyse Energi AS								
13	Stadtvind			Vestlandsalliansen			5	216		46		170
14	Steinshamm Offshore Vindpark			Offshore Vindenergie AS			3.5 – 5	21 – 30		4		34
15	Utsira Phase I			Lyse Energi AS	2012	M5000-116 (Areva Wind)	5	5		11		162
16	Utsira Phase II			Lyse Energi AS		M5000-116 (Areva Wind)	5	56		35		264
17	Vannøya Havkraftverk			Nord-Norsk Vindkraft, Troms Kraft, SKS, Nordkraft, Lofotkraft Holding				15	75			
 POLAND												
1	Baltica 1			PGE - Polska Grupa Energetyczna S.A.					300			
2	Baltica 2			PGE - Polska Grupa Energetyczna S.A.					300			
3	Baltica 3			PGE - Polska Grupa Energetyczna S.A.					300			
 PORTUGAL												
1	Branca			Blue H Technologies BV			3.5	86		17		56
2	Wind Float Phase 1			EDP Inovacao; Principle Power, INC; A. Silva Matos; InovCapital; Fundo de Apoio a Inovacao			2	1		7.5		40
3	Wind Float Phase 2			EDP Inovacao; Principle Power, Inc.			5	5				50
4	Wind Float Phase 3			EDP Inovacao; Principle Power, Inc.			5	30				50
 SPAIN												
1	Banco de Trafalgar (Cádiz)			Iberdrola Renovables			6	83		22.7		38
2	Cabo de Trafalgar			Consorcio Eólico Marino Cabo de Trafalgar			5	50		12.2		15
3	Costa de Azahar (Castellón)			Iberdrola Renovables			6	83				
4	Costa de la Luz (Cádiz)			Iberdrola Renovables			6	83		16.1		34

	Costa de la Luz (Huelva Province)		Iberdrola Renovables			6	83		16.1		34
6	Delta del Ebro		Capital Energy			3	144		12.4		65
7	Huelva Cadiz		Capitel Energy								
	HIPR Wind		IWES Fraunhofer Institute for Wind Energy and Energy Systems Technology			1.5	1				
8	Mar de Trafalgar		Acciona			3.6	278		3.6		12
9	Punta de las Olas		Eufer								
10	Punta de las Salinas (Castellón)		Iberdrola Renovables			6	83		23.2		60
11	Punta de Lens		Eufer								
13	Punta del Gato (Huelva)		Iberdrola Renovables			6	83		18.9		40
14	Tarragona-Castellón		Capital Energy				128				
15	Zefir (Phase 1)		Institut de Recerca en Energie de Catalunya (IREC)			5	4		3.5		35
16	Zefir (Phase 2)		Institut de Recerca en Energie de Catalunya (IREC)			5	8		30		100

SWEDEN

1	Blekinge Offshore AB		Blekinge Offshore AB, Eolus Vind AB, Vingkraft AB	2014		5	500		19.5		4,5
2	Bockstigen	●	OM 02	1998	Wind World	0.55	5	3	6		6
3	Finngrunden		Finngrunden Offshore AB (wpd offshore)	2014		5	300	1,500	30		3-20
4	Kårehamn		E.ON Schweden	2013	Vestas V112	3	16	48	7		7
5	Kattegat Offshore		Favonius, Göteborg Energi			6	47	282	9		22-28
6	Klocktårnan		Klocktårnan Offshore, wpd offshore, NordanVind vindkraft			5	132	660	20		44
7	Kriegers Flak II		Vattenfall/Sweden Offshore Wind (wpd)			5	128		30		15-42
8	Lillgrund	●	Vattenfall AB, Nordic Generation	2007	Siemens SWT-2.3-82	2.3	48	110	7	8	10
9	Petlandsskär		Petlandsskär Vind	2013		3	30	90	13		1
10	Seawind Lake Vänern		Rewind Offshore, PEAB, Scanergy	2012			20	90	10		18
11	Södra Midjösbanken I		E.ON Climate & Renewables	2017		5	180-230		80		14-40
12	Stora Middelgrunden		Universal Wind	2015		5	108	540	34		10-36
13	Storgrundet		wpd offshore	2015	WinWind	5	53	265			
14	Taggen		Taggen Vindpark AB (Vattenfall AB 50%, Hanöbukten Offshore AB 50%)	2014		5	60	300	13		12-20
15	Trolleboda		Vattenfall Europe Windkraft			5	30	150	6		11-22
16	Utgrunden I	●	Vattenfall Europe Windkraft	2000	Enron Wind 70/1500	1.5	7	11	12	8	6-15
17	Utgrunden II		E.ON Climate & Renewables	2013		3.6	24	86	8		4-20
18	Vindpark Vänern	●	Vindpark Vänern, Kraft AB, Drift AB	2010	WindWinD WWD-3-100	3	10	30	3.5		1-22
19	Vindpark Vänern Extension		Rewind Offshore, PEAB, Scanergy	2013		5		0	10		2-12
20	Yttre Stengrund	●	Vattenfall Europe Windkraft	2001	NM 72/2000 NEG - Micon	2	5	10	5	8	6-10

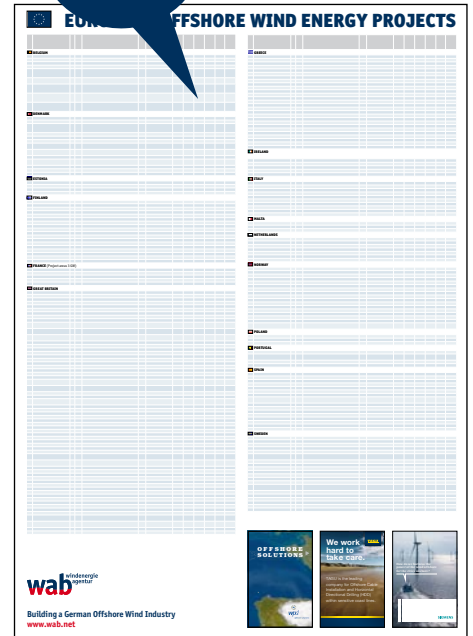
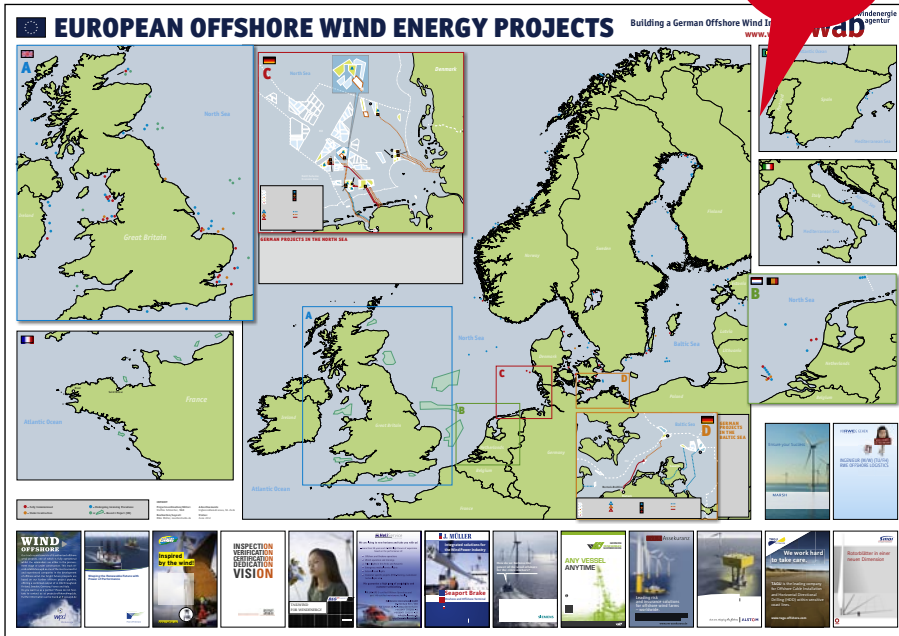
XXL-Poster-Bundle

European Map & Project Table

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A0
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A1
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