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# List of offshore wind farms

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This page **lists the largest offshore wind farms** that are currently operational rated by nameplate capacity. It also lists the largest offshore wind farms currently under construction, the largest proposed offshore wind farms, and offshore wind farms with notability other than size.

As of September 2018 the Walney Extension in the United Kingdom is the largest offshore wind farm in the world at 659 MW.

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Four offshore wind farms are in the Thames Estuary area: Kentish Flats, Gunfleet Sands, Thanet and London Array. The latter was **largest in the world**.






## Largest operational offshore wind farms

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This is a list of offshore wind farms with at least 200 MW nameplate capacity that are currently operational.

Wind farm	Capacity (MW)	Location	Site coordinates	Turbines & model	Commissioning date	Refs
<a href="#">Walney Extension</a>	659	 <a href="#">United Kingdom</a>	<a href="#">54°5′17″N 3°44′17″W</a>	40 x MHI-Vestas 8.25 MW 47 x <a href="#">Siemens Gamesa</a> 7 MW	2018	[1]
<a href="#">London Array</a>	630	 <a href="#">United Kingdom</a>	<a href="#">51°38′38″N 01°33′13″E</a>	175 x <a href="#">Siemens SWT-3.6-120</a>	2013	[2][3][4]
<a href="#">Gemini Wind Farm</a>	600	 <a href="#">Netherlands</a>	<a href="#">54°2′10″N 05°57′47″E</a>	150 x <a href="#">Siemens SWT-4.0</a>	2017	[5][6][7][8]
<a href="#">Gode Wind (phases 1+2)</a>	582	 <a href="#">Germany</a>	<a href="#">54°04′N 7°02′E</a>	97 x <a href="#">Siemens SWT-6.0-154</a>	2017	[9][10]
<a href="#">Gwyt y Môr</a>	576	 <a href="#">United Kingdom</a>	<a href="#">53°27′00″N 03°35′00″W</a>	160 x <a href="#">Siemens SWT-3.6-107</a>	2015	[11]
<a href="#">Race Bank</a>	573	 <a href="#">United Kingdom</a>	<a href="#">53°16′N 0°50′E</a>	91 x <a href="#">Siemens SWT-6.0-154</a>	2018	[12][13]
<a href="#">Greater Gabbard</a>	504	 <a href="#">United Kingdom</a>	<a href="#">51°52′48″N 1°56′24″E</a>	140 x <a href="#">Siemens SWT-3.6-107</a>	2012	[14][15][16]
<a href="#">Horns Rev 3</a>	407	 <a href="#">Denmark</a>	<a href="#">55°49′N 7°42′E</a>	49 x MHI <a href="#">Vestas V164-8.3 MW</a>	2019	[17]
<a href="#">Dudgeon</a>	402	 <a href="#">United Kingdom</a>	<a href="#">53°14′56″N 1°23′24″E</a>	67 x <a href="#">Siemens SWT-6.0-154</a>	2017	[18]
<a href="#">Veja Mate</a>	402	 <a href="#">Germany</a>	<a href="#">54°19′1″N 5°52′15″E</a>	67 x <a href="#">Siemens SWT-6.0-154</a>	2017	[19][20]
<a href="#">Anholt</a>	400	 <a href="#">Denmark</a>	<a href="#">56°36′00″N 11°12′36″E</a>	111 x <a href="#">Siemens SWT-3.6-120</a>	2013	[21][22][23][24]
<a href="#">BARD Offshore 1</a>	400	 <a href="#">Germany</a>	<a href="#">54°22′0″N 5°59′0″E</a>	80 x <a href="#">BARD 5.0MW</a>	2013	[25][26][27]
<a href="#">Global Tech I</a>	400	 <a href="#">Germany</a>	<a href="#">54°30′00″N 6°21′30″E</a>	80 x <a href="#">Areva Multibrid M5000 5.0MW</a>	2015	[28]
<a href="#">Rampion</a>	400	 <a href="#">United Kingdom</a>	<a href="#">50°40′N 0°06′W</a>	116 x MHI <a href="#">Vestas V112-3.45 MW</a>	2018	[29]
<a href="#">Binhai North</a>	400	 <a href="#">China</a>	<a href="#">34°40′04″N 120°21′29″E</a>	100 x <a href="#">Siemens SWT-4.0-120</a>	2018	[30]
<a href="#">West of Duddon Sands</a>	389	 <a href="#">United Kingdom</a>	<a href="#">53°59′02″N 3°27′50″W</a>	108 x <a href="#">Siemens SWT-3.6-120</a>	2014	[31][32]
<a href="#">Arkona</a>	385	 <a href="#">Germany</a>	<a href="#">54°46′55.200″N 14°7′15.600″E</a>	60 x <a href="#">Siemens SWT-6.0-154</a>	2019	[33][34]
<a href="#">Walney (phases 1&amp;2)</a>	367	 <a href="#">United Kingdom</a>	<a href="#">54°02′38″N 3°31′19″W</a>	102 x <a href="#">Siemens SWT-3.6-107</a>	2011 (phase 1) 2012 (phase 2)	[35][36]
<a href="#">Galloper</a>	353	 <a href="#">United Kingdom</a>	<a href="#">51°52′48″N 1°56′24″E</a>	56 x <a href="#">Siemens SWT-6.0-154</a>	2018	[37][38]
<a href="#">Wikinger</a>	350	 <a href="#">Germany</a>	<a href="#">54°50′2″N 14°4′5″E</a>	70 x <a href="#">Adwen AD 5-135</a>	2018	[39]
<a href="#">Nordsee One</a>	332	 <a href="#">Germany</a>	<a href="#">53°58′0″N 06°48′00″E</a>	54 x <a href="#">Senvion 6.2M126</a>	2017	[40]
<a href="#">Thorntonbank (phases 1–3)</a>	325	 <a href="#">Belgium</a>	<a href="#">51°33′00″N 2°56′00″E</a>	6 x <a href="#">Senvion 5MW</a> 48 x <a href="#">Senvion 6.15MW</a>	2009 (phase 1) 2012 (phase 2) 2013 (phase 3)	[41][42][43][44]
<a href="#">Sheringham Shoal</a>	315	 <a href="#">United Kingdom</a>	<a href="#">53°7′0″N 1°8′0″E</a>	88 x <a href="#">Siemens SWT-3.6-107</a>	2012	[45][46][47][48]

Wind farm	Capacity (MW)	Location	Site coordinates	Turbines & model	Commissioning date	Refs
<u>Borkum Riffgrund 1</u>	312	 <u>Germany</u>	<u>53°58′0″N</u> <u>06°33′00″E</u>	78 × Siemens SWT-4.0-120	2015	[49]
<u>Rentel</u>	308.7	 <u>Belgium</u>	<u>51°35′27.6″N</u> <u>2°56′38.4″E</u>	42 × Siemens SWT-7.0-154	2019	[50]
<u>SPIC Jiangsu Dafeng</u>	302.4	 <u>China</u>	<u>33.514°N</u> <u>121.105°E</u>	72 × Envision 4.2MW	2018	[51]
<u>Amrumbank West</u>	302	 <u>Germany</u>	<u>54°30′0″N</u> <u>07°48′00″E</u>	80 × Siemens SWT-3.6-120	2015	[52][53]
<u>Thanet</u>	300	 <u>United Kingdom</u>	<u>51°26′0″N</u> <u>01°38′0″E</u>	100 × Vestas V90-3.0MW	2010	[54][55]
<u>Huaneng Rudong</u>	300	 <u>China</u>	<u>32.680°N</u> <u>121.323°E</u>	38 × Siemens 4.0MW 19 × Haizhuang 5MW (H154) 1 × Haizhuang 5MW (H171) 12 × Envision 4.2MW (EN-136)	2017	[56]
<u>Jiangsu Longyuan Chiang Sand</u>	300	 <u>China</u>	<u>32.816°N</u> <u>121.516°E</u>	75 × Envision EN136/4.0 MW	2018	[57]
<u>Nordsee Ost</u>	295	 <u>Germany</u>	<u>54°26′00″N</u> <u>7°41′00″E</u>	48 × Servion 6.15MW	2015	[58][59]
<u>Butendiek</u>	288	 <u>Germany</u>	<u>54°54′0″N</u> <u>07°45′00″E</u>	80 × Siemens SWT-3.6-120	2015	[60][61]
<u>DanTysk</u>	288	 <u>Germany</u>	<u>55°9′00″N</u> <u>7°10′30″E</u>	80 × Siemens SWT-3.6-120	2015	[62]
<u>Baltic 2</u>	288	 <u>Germany</u>	<u>54°58′24″N</u> <u>13°10′40″E</u>	80 × Siemens SWT-3.6-120	2015	[63][64]
<u>Meerwind Süd / Ost</u>	288	 <u>Germany</u>	<u>54°23′00″N</u> <u>7°42′00″E</u>	80 × Siemens SWT-3.6-120	2015	[65]
<u>Sandbank (Phase 1)</u>	288	 <u>Germany</u>	<u>55°11′0″N</u> <u>06°51′00″E</u>	72 × Siemens SWT-4.0-130	2017	[66][67]
<u>Lincs</u>	270	 <u>United Kingdom</u>	<u>53°11′00″N</u> <u>00°29′00″E</u>	75 × Siemens SWT-3.6-120	2013	[68]
<u>Burbo Bank Extension</u>	258	 <u>United Kingdom</u>	<u>53°28′48″N</u> <u>3°15′36″W</u>	32 × Vestas V164-8.0MW	2017	[69]
<u>Liuheng (Guodian Zhoushan Putuo)</u>	252	 <u>China</u>		63 × Siemens SWT-4.0-130	2019	[70][71]
<u>Humber Gateway</u>	219	 <u>United Kingdom</u>	<u>53°38′38″N</u> <u>0°17′35″E</u>	73 × Vestas V112-3.0MW	2015	[72]
<u>Northwind</u>	216	 <u>Belgium</u>	<u>51°37′08″N</u> <u>02°54′03″E</u>	72 × Vestas V112-3.0MW	2014	[73]
<u>Westermost Rough</u>	210	 <u>United Kingdom</u>	<u>53°48′0″N</u> <u>0°9′0″E</u>	35 × Siemens SWT-6.0-154	2015	[74][75]

Wind farm	Capacity (MW)	Location	Site coordinates	Turbines & model	Commissioning date	Refs
<u>Horns Rev 2</u>	209	 <u>Denmark</u>	<u><span><span><span><span>55°36′00″N</span> <span>7°35′24″E</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span>55.60000°N 7.59000°E</span><span><span>﻿</span> / <span>55.6; 7.59</span></span></span></span></u>	91 × Siemens SWT-2.3-93	2009	[76]
<u>Rødsand II</u>	207	 <u>Denmark</u>	<u><span><span><span><span>54°33′0″N</span> <span>11°42′36″E</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span>54.55000°N 11.71000°E</span><span><span>﻿</span> / <span>54.55; 11.71</span></span></span></span></u>	90 × Siemens SWT-2.3-93	2010	[77][78]
<u>Chenjiagang (Jiangsu) Xiangshui</u>	201	 <u>China</u>	<u><span><span><span><span>34°29′00″N</span> <span>119°52′00″E</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span>34.48333°N 119.86667°E</span><span><span>﻿</span> / <span>34.48333; 119.86667</span></span></span></span></u>	134 × FD77-1500 <u>Dongfang Electric</u>	2010	[79][80]
<u>Trianel Borkum West II (Phase 1)</u>	200	 <u>Germany</u>	<u><span><span><span><span>54°2′30″N</span> <span>6°28′0″E</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span>54.04167°N 6.46667°E</span><span><span>﻿</span> / <span>54.04167; 6.46667</span></span></span></span></u>	40 × Areva Multibrid M5000 5.0MW	2015	[81]
<u>Jiangsu Luneng Dongtai</u>	200	 <u>China</u>	<u><span><span><span><span>32°55′16″N</span> <span>121°10′55″E</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span>32.92111°N 121.18194°E</span><span><span>﻿</span> / <span>32.92111; 121.18194</span></span></span></span></u>	50 × Siemens SWT-4.0-130	2017	[82][83]














## Largest under construction

This is a list of wind farms with a nameplate capacity of more than 300MW currently under construction.

Wind farm	Capacity (MW)	Location	Site coordinates	Turbines & model	Completion	Refs
<u>Hornsea Project One</u>	1,218	 <u>United Kingdom</u>		174 x Siemens SWT-7.0-154	2020	[84]
<u>Borssele 1&amp;2</u>	752	 <u>Netherlands</u>		94 x Siemens Gamesa 8MW	2020	[85]
<u>East Anglia ONE</u>	714	 <u>United Kingdom</u>		102 x Siemens SWT-7.0-154	2020	[86]
<u>Kriegers Flak</u>	605	 <u>Denmark</u>	<u>55°01′00″N</u> <u>12°56′00″E</u>	72 x Siemens SG 8.4MW	2021	[87]
<u>Beatrice</u>	588	 <u>United Kingdom</u>	<u>58°7′48″N</u> <u>3°4′12″W</u>	84 x Siemens SWT-7.0-154	2019	[88]
<u>Hohe See</u>	497	 <u>Germany</u>		71 x Siemens SWT-7.0-154	2019	[89]
<u>Borkum Riffgrund 2</u>	450	 <u>Germany</u>		56 x MHI Vestas V164-8.0 MW	2019	[90]
<u>CGN Yangjiang Nanpeng Island</u>	400	 <u>China</u>		75 x <u>Mingyang</u> MY-5.5 MW	2020	[91]
<u>Merkur</u>	396	 <u>Germany</u>		66 x GE Haliade 150-6 MW	2019	[92]
<u>Norther Offshore Wind Farm</u>	370	 <u>Belgium</u>		44 x <u>Vestas</u> V164-8.4 MW	2019	
<u>Datang Jiangsu Binhai</u>	316.5	 <u>China</u>		1 x <u>Mingyang</u> SCD 3 MW 50 x <u>Goldwind</u> GW-140/3300 45 x <u>Sinovel</u> SL3300/128	2019	[93]
<u>Dongtai Four</u>	302.4	 <u>China</u>		63 x Siemens SWT-4.0-130 10 x <u>Envision</u> EN136/4.2 MW	2019	[94]
<u>Laoting Bodhi Island</u>	300	 <u>China</u>	<u>38.986°N</u> <u>118.804°E</u>	75 x Siemens SWT-4.0-130	2019	[95]

## Largest proposed

The following table lists largest offshore wind farm areas (by nameplate capacity) that are only at a *proposal* stage, and have achieved at least some of the formal consents required before construction can begin.

Wind farm	Capacity (MW)	Location	Site coordinates	Consents	Refs
<u>Korea Offshore</u>	2,500	 <u>South Korea</u>		Korean government approved	[96]
<u>Hornsea Project Three</u>	2,400	 <u>United Kingdom</u>		Crown Estate Round 3	[97]
Formosa III	1,900	 <u>Taiwan</u>		Undergoing environmental impact assessment and approvals which are expected to be completed by end of 2017	[98]
<u>Borssele Offshore (phases 1-4)</u>	1,400	 <u>Netherlands</u>		Phase I and II (2 x 350MW) to be built by <u>Ørsted</u> Phase III (330MW) and IV (350MW) to be built by Blauwwind II c.v. consortium	[99]
<u>Hollandse Kust Zuid Holland (phases 1-4)</u>	1,400	 <u>Netherlands</u>		Phase I & II (76 × 10MW Siemens-193m) to be built by Vattenfall/Nuon by 2023 <sup>[100]</sup> Phase III & IV (760MW) to be built by Vattenfall	[101][102]
<u>Hornsea Project Two</u>	1,386	 <u>United Kingdom</u>		Pre-Construction	[103]
Moray Firth	1,866	 <u>United Kingdom</u>		Moray East (1,116MW), Moray West (750 MW)	[104][105]
<u>Creyke Beck A</u>	1,200	 <u>United Kingdom</u>	<u>54°43′28.63″N</u> <u>2°46′06.80″E</u>	Crown Estate Round 3	[106][107]
<u>Creyke Beck B</u>	1,200	 <u>United Kingdom</u>		Crown Estate Round 3	[106][107]
<u>East Anglia (formerly Norfolk Bank)</u>	1,200	 <u>United Kingdom</u>		Crown Estate Round 3	[108][109]
<u>Teesside A</u>	1,200	 <u>United Kingdom</u>		Crown Estate Round 3	[106][107]
<u>Sofia Offshore (formerly Teesside B)</u>	1,200	 <u>United Kingdom</u>		Crown Estate Round 3	[106][107]
<u>Triton Knoll</u>	1,200	 <u>United Kingdom</u>		Crown Estate Round 2	[110]

## Other notable offshore wind farms

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Wind Farm	Country	Coordinates	Year	Notability	Refs
<u>Vindeby</u>	<u>Denmark</u>		1991	First offshore wind farm; 11 × <u>Bonus</u> 450 kW	[111][112][113][114][115][116][117]
<u>Beatrice</u>	<u>United Kingdom</u>	<u>58°7′48″N</u> <u>3°4′12″W</u>	2007	2 × <u>Senvion</u> 5MW prototype turbines, deepest fixed-foundation at 45-metre water depth	[118][119][120]
<u>Yttre Stengrund</u>	<u>Sweden</u>			First offshore wind farm to be decommissioned (in November 2015)	
<u>Hywind</u>	<u>Norway</u>		2009	First full-scale, deep-water floating turbine: <u>Siemens</u> 2.3 MW turbine in 220 meter-deep water	[121][122]
<u>WindFloat 1</u>	<u>Portugal</u>		2011	First full-scale, semi-submersible platform with a <u>Vestas</u> V80-2MW turbine installed in a dry-dock	[123]
<u>Hywind Scotland</u>	<u>United Kingdom</u>		2017	First full-scale, deep-water <u>floating wind farm</u> , at 30 MW capacity	[124]

## See also

- Jackup rig
- List of largest wind farms in the world
- Lists of offshore wind farms by country
- Lists of offshore wind farms by water area
- Wind power by country

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## External links

- [4C Offshore's Global Offshore Wind Farm Map and Database](http://www.4c offshore.com/offshorewind) (<http://www.4c offshore.com/offshorewind>)
- [North American Offshore Wind Project List](http://www.offshorewind.net) (<http://www.offshorewind.net>)
- [The Crown Estate's interactive UK marine estates map](https://web.archive.org/web/20080704025514/http://www.thecrownsestate.co.uk/70_interactive_maps_marine.htm) ([https://web.archive.org/web/20080704025514/http://www.thecrownsestate.co.uk/70\\_interactive\\_maps\\_marine.htm](https://web.archive.org/web/20080704025514/http://www.thecrownsestate.co.uk/70_interactive_maps_marine.htm))
- [LORC Knowledge - Offshore Renewables Map](http://www.lorc.dk/Knowledge/Offshore-renewables-map) (<http://www.lorc.dk/Knowledge/Offshore-renewables-map>)
- [Offshore Center List of offshore wind farms](http://www.offshorecenter.dk/offshorewindfarms.asp) (<http://www.offshorecenter.dk/offshorewindfarms.asp>)
- [Renewable UK offshore wind page](https://web.archive.org/web/20081225110353/http://www.bwea.com/offshore/worldwide.html) (<https://web.archive.org/web/20081225110353/http://www.bwea.com/offshore/worldwide.html>)
- [Tethys Map Viewer](https://tethys.pnnl.gov/map-viewer) (<https://tethys.pnnl.gov/map-viewer>) A compilation of documents, U.S. permitting sites, and international Annex IV project sites and research studies on offshore wind developments that are associated with a geographic location.

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