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# List of Offshore Wind Farms

| Sno. | Wind forms                               | Country     | Capacity (MW) | Number of Turbines | wind form Operator                          | Foundation Type            | TSO                              | Year of Comm.  | Operational Status |
|------|--|-------------|---------------|--------------------|---|----------------------------|----------------------------------|----------------|--------------------|
| 1    | Alpha Ventus                             | Germany     | 60            | 12                 | Stiftung Offshore Windenergie               | Jacket                     | Tennet                           | April 2010     | Operational        |
| 2    | Anholt                                   | Denmark     | 399.6         | 111                | DONG Energy                                 | Monopile                   | energinet.dk                     | September 2013 | Operational        |
| 3    | Arklow Bank 1                            | Ireland     | 25.2          | 7                  | Airtricity                                  | Monopile                   | ESB                              | June 2004      | Operational        |
| 4    | Avedore Holme                            | Denmark     | 10.8          | 3                  | DONG Energy                                 | Gravity-Base               | energinet.dk                     | September 2011 | Operational        |
| 5    | Baltic 1                                 | Germany     | 48.3          | 21                 | Energie Baden-Württemberg                   | Monopile                   | 50Hertz                          | May 2011       | Operational        |
| 6    | Baltic 2                                 | Germany     | 288           | 80                 | Energie Baden-Württemberg                   | Jacket                     | 50Hertz                          | October 2015   | Operational        |
| 7    | Bard Offshore 1                          | Germany     | 400           | 80                 | Bard  | Tripod                     | Tennet                           | March 2010     | Operational        |
| 8    | Barrow                                   | UK          | 90            | 30                 | DONG Energy                                 | Monopile                   | TC Barrow OFTO Ltd               | December 2006  | Operational        |
| 9    | Beatrice Demonstration                   | UK          | 10            | 2                  | SSE Renewables                              | Jacket                     | National grid                    | August 2007    | Decommissioned     |
| 10   | Belwind 1                                | Belgium     | 165           | 55                 | Belwind                                     | Monopile                   | Elia                             | December 2010  | Operational        |
| 11   | Belwind 2 Haliade Demonstration          | Belgium     | 6             | 1                  | Belwind                                     | Jacket                     | Elia                             | November 2013  | Operational        |
| 12   | Blyth                                    | UK          | 4             | 2                  | E.ON  | Monopile                   | National grid                    | December 2000  | Decommissioned     |
| 13   | Bockstigen                               | Sweden      | 2.5           | 5                  | Nordisk Vindkraftservice                    | Monopile                   | Svenska Kraftnät                 | March 1998     | Operational        |
| 14   | Borkum Riffgrund 1                       | Germany     | 312           | 78                 | DONG Energy                                 | Monopile                   | Tennet                           | Oct 2015       | Operational        |
| 15   | Breitling Demonstration                  | Germany     | 2.5           | 1                  | WIND-projekt                                | Gravity-Base               | 50Hertz                          | Sep 2006       | Operational        |
| 16   | Burbo Bank 1                             | UK          | 90            | 25                 | DONG Energy                                 | Monopile                   | National grid                    | Oct 2007       | Operational        |
| 17   | Burbo Bank 2                             | UK          | 256           | 32                 | DONG Energy                                 | Monopile                   | National grid                    | -              | Under Construction |
| 18   | Butendiek Offshore Windfarm              | Germany     | 288           | 80                 | WPD offshore GmbH                           | Monopile                   | Tennet                           | Aug 2015       | Operational        |
| 19   | Choshi Offshore Demonstration Project    | Japan       | 2.4           | 1                  | Toyko Electric Power Company (TEPCO)        | Gravity-Base               | Tokyo Electric Power Company     | 2013           | Operational        |
| 20   | DanTysk                                  | Germany     | 288           | 80                 | Vattenfall                                  | Monopile                   | Tennet                           | 2014           | Operational        |
| 21   | Donghai Bridge 1                         | China       | 102           | 34                 | Shanghai Donghai Wind Power                 | Gravity-Base               | East China Power Grid (ECPG)     | 2010           | Operational        |
| 22   | Egmond aan Zee                           | Netherlands | 108           | 36                 | Nuon  | Monopile                   | Tennet                           | 2007           | Operational        |
| 23   | Ems Emden                                | Germany     | 4.5           | 1                  | ENOVA                                       | Monopile                   | Tennet                           | October 2004   | Operational        |
| 24   | Fishermen's energy atlantic city Phase 1 | USA         | 24            | 6                  | -   | Jacket                     | -                                | -              | Consent Authorised |
| 25   | Frederikshavn                            | Denmark     | 7.6           | 3                  | DONG Energy                                 | Monopile                   | Energinet.dk                     | June 2003      | Operational        |
| 26   | Global Tech 1                            | Germany     | 400           | 80                 | Global Tech 1 Offshore Wind                 | Suction                    | Tennet                           | 2013           | Operational        |
| 27   | Greater Gabbard                          | UK          | 504           | 140                | SSE Renewables                              | Monopile                   | National grid                    | 2012           | Operational        |
| 28   | Gunfleet Sands                           | UK          | 172.8         | 48                 | DONG Energy                                 | Monopile                   | National grid                    | June 2010      | Operational        |
| 29   | Gunfleet Sands 3 Demonstration           | UK          | 12            | 2                  | DONG Energy                                 | Monopile                   | National grid                    | November 2012  | Operational        |
| 30   | Gwynt y Môr                              | UK          | 576           | 160                | RWE npower renewables                       | Monopile                   | National grid                    | 2014           | Operational        |
| 31   | Hooksiel Demonstration                   | Germany     | 5             | 1                  | Bard  | Tripod                     | E.ON Netz                        | October 2008   | Decommissioned     |
| 32   | Horns Rev 1                              | Denmark     | 160           | 80                 | Vattenfall                                  | Monopile                   | Energinet.dk                     | December 2002  | Operational        |
| 33   | Horns Rev 2                              | Denmark     | 209.3         | 91                 | DONG Energy                                 | Monopile                   | Energinet.dk                     | January 2010   | Operational        |
| 34   | Hywind Demonstration                     | Norway      | 2.3           | 1                  | Haugaland Kraft                             | Floating                   | Statnett                         | September 2009 | Operational        |
| 35   | Irene Vorrink                            | Netherlands | 16.8          | 28                 | Nuon  | Monopile                   | Tennet                           | 1997           | Operational        |
| 36   | Jeju Demonstration                       | South Korea | 2             | 1                  | Korean Institute for Energy Research (KIER) | Jacket                     | Korea Electric Power Corporation |                | Operational        |
| 37   | Kamisu                                   | Japan       | 14            | 7                  | Wind Power Ibaraki                          | Monopile                   | -                                | July 2010      | Operational        |
| 38   | Kårehamn                                 | Sweden      | 48            | 16                 | E.ON  | Gravity-Base               | Svenska Kraftnät                 | 2013           | Operational        |
| 39   | Kemi Ajos                                | Finland     | 30            | 10                 | Innopower                                   | Grounded:Artificial Island | Fingrid                          | 2008           | Decommissioned     |
| 40   | Kentish Flats 1                          | UK          | 90            | 30                 | Vattenfall                                  | Monopile                   | National grid                    | June 2005      | Operational        |

|    |                                 |             |       |     |   |              |                              |                |                    |
|----|---------------------------------|-------------|-------|-----|---|--------------|------------------------------|----------------|--------------------|
| 41 | Kitakyushu Demonstration        | Japan       | 2     | 1   | Electric Power Development Co (J Power) (J Power) | Gravity-Base | Kyushu Electric Power        | 2013           | Operational        |
| 42 | Lely                            | Netherlands | 2     | 4   | Nuon  | Monopile     | Tennet                       | June 1994      | Decommissioned     |
| 43 | Lillgrund                       | Sweden      | 110.4 | 48  | Vattenfall  | Gravity-Base | Svenska Kraftnät             | December 2007  | Operational        |
| 44 | Lincs                           | UK          | 270   | 75  | Centrica Energy                                   | Monopile     | National grid                | 2012           | Operational        |
| 45 | London Array 1                  | UK          | 630   | 175 | DONG Energy                                       | Monopile     | National grid                | April 2013     | Operational        |
| 46 | Lynn and Inner Dowsing          | UK          | 194.4 | 54  | Centrica Energy                                   | Monopile     | National grid                | March 2009     | Operational        |
| 47 | Meerwind Süd und Ost            | Germany     | 288   | 80  | WindMW  | Monopile     | Tennet                       | December 2013  | Operational        |
| 48 | Middelgrunden                   | Denmark     | 40    | 20  | DONG Energy                                       | Gravity-Base | Energinet.dk                 | March 2001     | Operational        |
| 49 | Nordsee Ost                     | Germany     | 295.2 | 48  | RWE Innogy  | Jacket       | Tennet                       | 2013           | Operational        |
| 50 | North Hoyle                     | UK          | 60    | 30  | RWE npower renewables                             | Monopile     | National grid                | July 2004      | Operational        |
| 51 | Northwind                       | Belgium     | 216   | 72  | Parkwind NV                                       | Monopile     | Elia                         | 2014           | Operational        |
| 52 | Nysted 1                        | Denmark     | 165.6 | 72  | DONG Energy                                       | Gravity-Base | Energinet.dk                 | 2003           | Operational        |
| 53 | Ormonde                         | UK          | 150   | 30  | Vattenfall  | Jacket       | National grid                | 2012           | Operational        |
| 54 | Pori Offshore 1                 | Finland     | 2.3   | 1   | Suomen Hyötytuuli                                 | Gravity-Base | Fingrid                      | September 2010 | Operational        |
| 55 | Prinses Amalia Windpark         | Netherlands | 120   | 60  | Eneco   | Monopile     | Tennet                       | 2008           | Operational        |
| 56 | Rhyl Flats                      | UK          | 90    | 25  | RWE npower renewables                             | Monopile     | National grid                | 2009           | Operational        |
| 57 | Riffgat                         | Germany     | 108   | 30  | EWE   | Monopile     | Tennet                       | 2013           | Operational        |
| 58 | Robin Rigg                      | UK          | 180   | 60  | E.ON  | Monopile     | National grid                | 2010           | Operational        |
| 59 | Rodsand II                      | Denmark     | 207   | 90  | E.ON  | Gravity-Base | Energinet.dk                 | 2010           | Operational        |
| 60 | Ronland                         | Denmark     | 17.2  | 8   | Vindenergi/Harboøre Møllelaug + Thyborøn-Harboøre | Gravity-Base | Energinet.dk                 | 2003           | Operational        |
| 61 | Rudong 1 Intertidal             | China       | 48.3  | 21  | China Longyuan Power                              | Tripod       | East China Power Grid (ECPG) | November 2011  | Operational        |
| 62 | Rudong Intertidal Demonstration | China       | 30    | 15  | China Longyuan Power                              | Monopile     | East China Power Grid (ECPG) | 2010           | Operational        |
| 63 | Sakata                          | Japan       | 16    | 8   | Summit Wind Power                                 | Other Piled  | Tohoku Electric Power        | 2004           | Operational        |
| 64 | Samsø                           | Denmark     | 23    | 10  | Samsø Havvind                                     | Monopile     | Energinet.dk                 | 2003           | Operational        |
| 65 | Scroby Sands                    | UK          | 60    | 30  | E.ON  | Monopile     | National grid                | 2004           | Operational        |
| 66 | Setana                          | Japan       | 1.32  | 2   | Setana Town                                       | Other Piled  | Hokkaidō Electric Power      | 2004           | Operational        |
| 67 | Sheringham Shoal                | UK          | 316.8 | 88  | Scira Offshore Energy                             | Monopile     | National grid                | December 2012  | Operational        |
| 68 | Sprogo                          | Denmark     | 21    | 7   | Sund & Bælt                                       | Gravity-Base | Energinet.dk                 | December 2009  | Operational        |
| 69 | Suizhong Demonstration          | China       | 1.5   | 1   | China National Offshore Oil Corporation (CNOOC)   | Jacket       | Oil field grid system        | November 2007  | Operational        |
| 70 | Teesside                        | UK          | 62.1  | 27  | EDF Energy Renewables                             | Monopile     | National grid                | 2012           | Operational        |
| 71 | Thanet                          | UK          | 300   | 100 | Vattenfall  | Monopile     | National grid                | September 2010 | Operational        |
| 72 | Thornton Bank 1                 | Belgium     | 30    | 6   | C-Power   | Monopile     | Elia                         | 2009           | Operational        |
| 73 | Thornton Bank 2                 | Belgium     | 180   | 30  | C-Power   | Jacket       | Elia                         | 2012           | Operational        |
| 74 | Thornton Bank 3                 | Belgium     | 108   | 18  | C-Power   | Jacket       | Elia                         | 2013           | Operational        |
| 75 | Trianel Borkum 1                | Germany     | 200   | 40  | Trianel   | Tripod       | Tennet                       | 2015           | Operational        |
| 76 | Tuno Knob                       | Denmark     | 5     | 10  | DONG Energy                                       | Gravity-Base | Energinet.dk                 | May 1995       | Operational        |
| 77 | Utgrunden 1                     | Sweden      | 10.5  | 7   | Vattenfall  | Monopile     | Svenska Kraftnät             | December 2000  | Operational        |
| 78 | Veja mate                       | Germany     | 402   | 67  | Veja mate Offshore Project GmbH                   | Monopile     | Tennet                       |                | Under Construction |
| 79 | Vindeby                         | Denmark     | 4.95  | 11  | DONG Energy                                       | Gravity-Base | Energinet.dk                 | 1991           | Operational        |
| 80 | Vindpark Vanern                 | Sweden      | 30    | 10  | Vindpark Vänern                                   | Gravity-Base | Svenska Kraftnät             | 2009           | Operational        |
| 81 | Walney 1                        | UK          | 183.6 | 51  | DONG Energy                                       | Monopile     | National Grid                | May 2011       | Operational        |
| 82 | Walney 2                        | UK          | 183.6 | 51  | DONG Energy                                       | Monopile     | National Grid                | March 2012     | Operational        |

|    |                                    |          |       |    |                                  |                  |                              |               |                    |
|----|------------------------------------|----------|-------|----|----------------------------------|------------------|------------------------------|---------------|--------------------|
| 82 | Wainey 2                           | UK       | 185.0 | 51 | DONG Energy                      | Monopile         | National Grid                | March 2012    | Operational        |
| 83 | Wikingen                           | Germany  | 350   | 70 | Iberdola                         | Jacket           | 50Hertz                      |               | Under Construction |
| 84 | WindFloat Demonstration            | Portugal | 2     | 1  | Energias de Portugal             | Semi submersible | REN                          | December 2011 | Decommissioned     |
| 85 | Xiangshui Demonstration            | China    | 202   | 22 | Xiangshui Yangtze Wind power Co. | Various          | -                            | 2016          | Operational        |
| 86 | Xiangshui Intertidal Demonstration | China    | 4.5   | 2  | Yangtze New Energies Development | Other Piled      | East China Power Grid (ECPG) | 2010          | Operational        |
| 87 | Yttre Stengrund                    | Sweden   | 10    | 5  | Vattenfall                       | Monopile         | Svenska Kraftnät             | Sep 2001      | Decommissioned     |

### For more information, refer the following informative links/materials:

1. <https://www.offshorewind.biz/>
2. <http://www.4coffshore.com/>
3. <https://www.thewindpower.net>
4. <https://orsted.com/en/Our-business/Wind-Power/Our-wind-farms>
5. <http://energynumbers.info/capacity-factors-at-danish-offshore-wind-farms>
6. <https://corporate.vattenfall.co.uk/projects/operational-wind-farms/thanet/>

Updated in: **April 2018**

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