

## Offshore wind netherlands

In March 2022, the Dutch government announced that by 2030 offshore wind was to become the Netherlands' biggest power source, aiming at 21 GW of installed capacity.<sup>4</sup>

Many of the numerous smaller and older wind farms in the Netherlands consist of much smaller turbines compared to those typically deployed today. These were often manufactured by lesser known wind turbine manufacturers, sometimes producing innovative products such as the Nedwind 2 blade turbine. Many of these smaller companies were eventually acquired by the larger wind turbine manufacturers such as Vestas, Siemens and Lagerwey.

For offshore wind a new system of tendering is under development. New wind farm deployment is based on the SER agreement that describes a plan for five years of tendering 700 MW per year. Under this system the government chooses locations and organizes tenders for projects of 350 MW, and project developers can offer bids for each farm. These sites are also surveyed centrally by the government, allowing developers to avoid costly and multiple surveys.<sup>10</sup>

Many small scale wind farms exist throughout the Netherlands which bear testament to earlier models of wind turbines and lesser known manufacturers which provided a range of niche products, ranging in size and power output. There are several Dutch turbine manufacturers that continue to manufacture both large and small installations for domestic and international clients. Smaller turbines are often used for off grid, bespoke and community power internationally.

In February 2022 the Netherlands announced it increased its offshore wind target to 21 GW by 2030. That would meet approximately 75% of the country's electricity needs. With this, offshore wind energy makes an important contribution to achieving the increased climate target of 55% less CO<sub>2</sub>-emissions.<sup>15</sup>

In March 2018 the Dutch government announced that it will build between 2023 and 2030 several new windfarms with a total installed capacity of 7 gigawatt.<sup>16</sup> Where the parks will come and how they will be built is still being discussed. However, the government wants 40% of the total electricity used in 2030 in the Netherlands to be supplied by wind.<sup>17</sup>

20152015 was a record year for new installations in the Netherlands with 586 MW added of which 180 MW were offshore. This record was immediately beaten the following year with another 766 MW being added.<sup>1</sup>

The Dutch government has expressed the aspiration to build 4.450 MW of offshore wind power by 2023<sup>5</sup>; which will have a considerable impact on the Dutch electricity grid, operated by TenneT.<sup>22</sup> As a first step, the government has determined 65 sites for offshore wind farms in the North

Sea and IJsselmeer. &#91;23&#93;

By December 2013, 1,975 wind turbines were operational on land in the Netherlands, with an aggregate capacity of 2,479 MW.&#91;24&#93; An additional 228 MW of capacity was installed at sea.&#91;25&#93;

In November 2011, the Dutch government decided to no longer fund EUR6 billion per year to maintain subsidized wind kWh at EUR0.18. It sharply cut subsidies down to EUR1.5 billion, leaving private sector to carry over wind turbine investments should these be beneficial.&#91;26&#93;

Whilst there are a growing number of large onshore wind farms in the Netherlands, most of the onshore farms in 2015 consisted of a large number of small wind farms, including many single installation turbines as well as farms of between 1-10 turbines. In total there were 3,004 MW of onshore wind power at the end of 2015. Most wind power is produced in the province of Flevoland.&#91;24&#93; A few of the larger wind farms are listed here.

The largest wind farm in the Netherlands is Noordoostpolder with a capacity of 429 MW. The farm consists of three smaller wind farms owned by separate organisations with local community links. The wind farm's 86 wind turbines will produce 1.4 billion kWh of electricity, enough. power for over 400,000 households every day, a figure roughly equivalent to the number of households in the Northern Netherlands.&#91;12&#93;

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