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TenneT transfers approximately 7.77 terawatt hours of wind energy from the North Sea to the shore in the first half of 2017

North Sea 'wind harvest' in the first half of 2017 exceeds the first half of 2016 by 50%

- North Sea wind reaches a significant 16.5% of total wind energy generation in Germany
- The first half of 2017 already corresponds to around 72% of total 2016 output
- Maximum value of the infeed performance of offshore wind farms in the North Sea reaches 4,010 megawatts in June

In the first half of 2017, the wind energy transferred by the transmission system operator TenneT from the North Sea to the shore rose to 7.77 terawatt hours (TWh)*).

In a half-year comparison, the result of the first half of 2017 exceeded that of the first half of 2016 (5.18 TWh) by 50%, which at the same time corresponds to the 72% of total output for the year 2016 (10.83 TWh).

Lex Hartman, Member of the TenneT Management Board, said: "The flow of energy from the North Sea has now reached a significant 16.5% share of overall wind energy generation in Germany and thus represents almost a sixth of the total wind power output. At the same time, future costs will decrease for wind farms and connection systems, which points to excellent economic performance in the field of offshore energy. We are also expecting this trend to continue as time progresses."

In total, TenneT has nine offshore grid connection systems with a joint 5,221-megawatt capacity for transmitting offshore wind energy to the power grid. TenneT will complete three further grid connection systems by the end of 2019, which will make available a transmission capacity of 7,132 megawatts from the North Sea. There are plans for four more connections by 2025, which will increase North Sea transmission capacity to over 10,000 megawatts. The maximum infeed performance of offshore wind farms in the North Sea reached 4,010 megawatts on 07 June 2017. Capacity expansion for offshore wind farms in the North Sea attained 4,399 megawatts on the effective date of 30/06/2017.

“Offshore wind farm capacities in the North Sea totalled almost 3,000 megawatts in the first half of 2016, which rose to almost 4,400 megawatts by the end of June 2017. This expansion, on the one hand, lays clear the present growth in generation output, but a major prerequisite for the successful bringing in of the ‘wind harvest’ was the continual expansion of TenneT transmission capacities, since February 2016 we have already been able to supply more than 5,200 megawatts. As such, TenneT has now achieved more than 80% of the federal government’s expansion goal of having 6,500 megawatts of offshore wind capacities by 2020,” said Hartmann.

The wind energy turbines in the Baltic Sea (not within the TenneT grid area) generated 0.7 terawatt hours*) in the first half of 2017, which means Germany’s total offshore yield totalled 8.47 terawatt hours *). With an addition 38.74 terawatt hours*) of generated onshore wind energy, the total yield is thus 47.21 terawatt hours*).

*) Financially subsidised electricity in accordance with the German Renewable Energy Act, without other direct marketing; for 2017, as the provisional actual value.

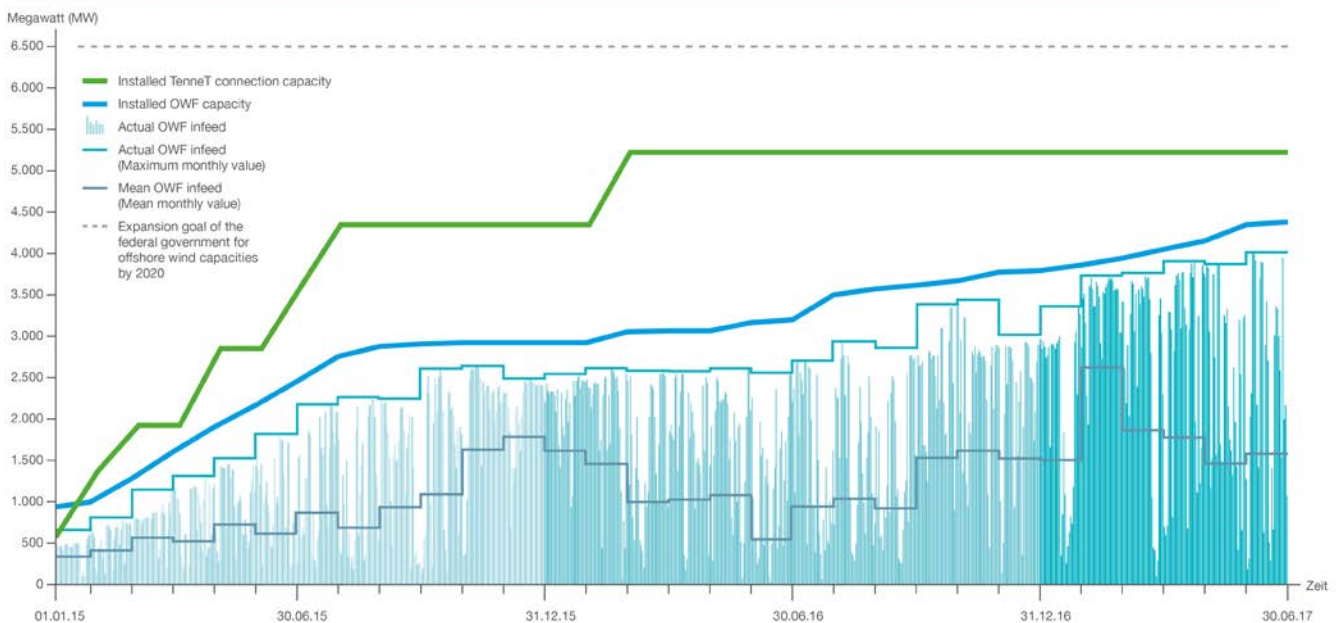
TenneT

TenneT is a leading European electricity transmission system operator (TSO) with its main activities in the Netherlands and Germany. With over 22,000 kilometres of high-voltage connections we ensure a secure supply of electricity to 41 million end-users. We employ approximately 3,000 people, have a turnover of EUR 3.2 billion and an asset value totalling EUR 19 billion. TenneT is one of Europe’s major investors in national and cross-border grid connections on land and at sea, bringing together the Northwest European energy markets and enabling the energy transition. We take every effort to meet the needs of society by being responsible, engaged and connected.

Taking power further

Installed connection- and OWF capacity/actual OWF infeed (TenneT grid area)

During period from 01/01/2015 until 30/06/2017



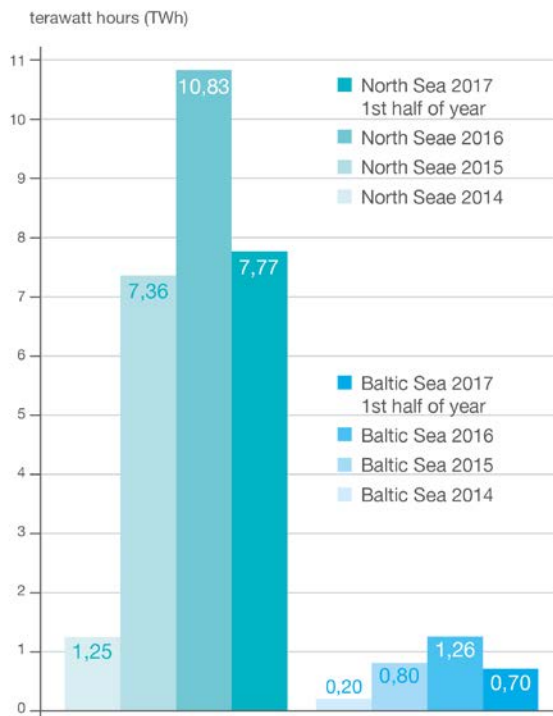
TenneT TSO GmbH **Address:** Bernecker Straße 70, 95448 Bayreuth

Internet: www.tennet.eu **Company Headquarters:** Bayreuth **AG Bayreuth:** Commercial Register B 4923

Chairman of the Supervisory Board: Melchior Kroon **Managing Directors:** Dr Urban Keussen (chairman), Alexander Hartman

For comparison: North Sea (TenneT grid area) und Baltic Sea

Energy fed-in from OWF in terawatt hours



For comparison: North Sea (TenneT grid area) und Baltic Sea

Energy fed-in from OWF in terawatt hours



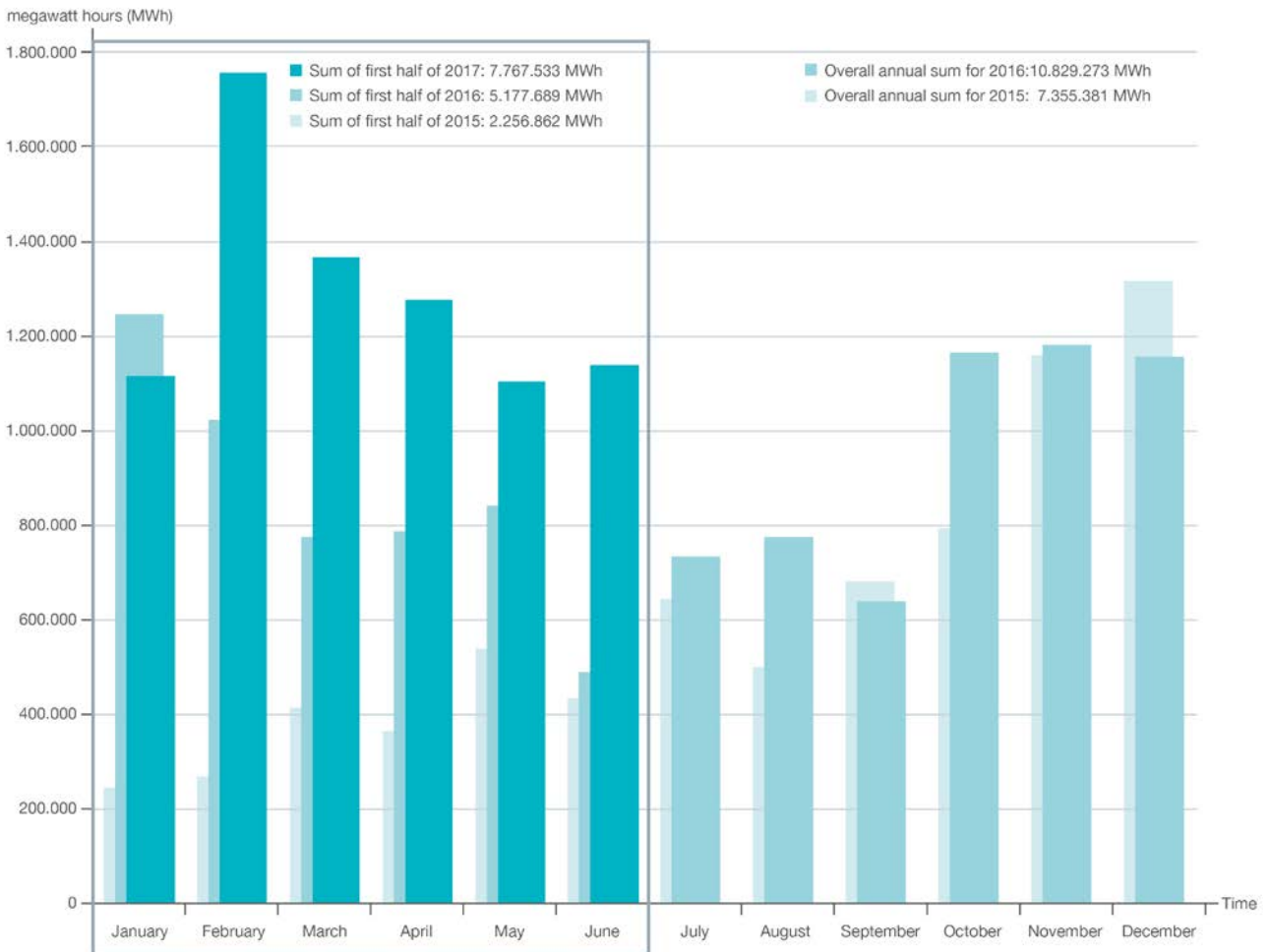
Installed connection- and OWF capacity/actual OWF infeed (TenneT grid area)

During period from 01/01/2015 until 30/06/2017, In megawatts (MW)

Effective date		01.01.	31.01.	28.02.	31.03.	30.04.	31.05.	30.06.	31.07.	31.08.	31.09.	31.10.	30.11.	31.12.
Installed TenneT connection capacity	2015	575	1.375	1.951	1.951	2.815	2.815	3.505	4.305	4.305	4.305	4.305	4.305	4.305
	2016	4.305	4.305	5.221	5.221	5.221	5.221	5.221	5.221	5.221	5.221	5.221	5.221	5.221
	2017	5.221	5.221	5.221	5.221	5.221	5.221	5.221						
Installed OWF capacity	2015	945	1.033	1.284	1.579	1.887	2.162	2.477	2.753	2.883	2.928	2.947	2.947	2.947
	2016	2.947	2.947	3.028	3.053	3.053	3.173	3.216	3.498	3.555	3.615	3.695	3.747	3.795
	2017	3.795	3.885	3.945	4.041	4.185	4.343	4.399						
Actual OWF infeed (Maximum monthly value)	2015	485	644	795	1.137	1.298	1.511	1.792	2.159	2.247	2.238	2.613	2.631	2.495
	2016	2.495	2.591	2.670	2.655	2.615	2.686	2.590	2.785	2.989	2.849	3.440	3.480	3.012
	2017	3.012	3.375	3.726	3.734	3.917	3.877	4.010						
Mean OWF infeed (Mean monthly value)	2015	325	325	399	557	505	720	603	865	674	947	1.064	1.611	1.773
	2016	1.773	1.679	1.476	1.047	1.095	1.132	683	980	1.045	887	1.565	1.644	1.554
	2017	1.554	1.500	2.618	1.843	1.774	1.484	1.584						

Monthly sums from the energy fed-in from OWF in megawatt hours (TenneT grid area)

During period from 01/01/2015 until 30/06/2017



Media information: The tables and graphics are available in a higher resolution from the TenneT press office: presse@tennet.eu