

Wind energy provides 8% of Europe's electricity

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EU's grid connected cumulative capacity in 2014 reached 129 GW, meeting 8% of European electricity demand, equivalent to the combined annual consumption of Belgium, the Netherlands, Greece and Ireland. According to a JRC report, the impressive growth of the industry will allow at least 12% electricity share by 2020, a significant contribution to the goal of the European energy and climate package of 20% share of energy from renewable sources.

The 2014 JRC wind status report presents the technology, market and

economics of the wind [energy](#) sector with a focus on the EU. Wind power is the [renewable energy](#) which has seen the widest and most successful deployment over the last two decades, increasing the global cumulative capacity from 3 GW to 370 GW. Last year represented an annual record with 52.8 GW of wind turbines capacity installed worldwide, a 48% increase compared to 2013 and 17% over the 2012 record of 45.2GW.

With 23.2 GW of new installations and a market share of 44%, China is well ahead of EU's member states which together installed 13.05 GW. The EU however still leads in cumulative capacity and its 129 GW onshore and offshore wind installations, allowed six countries – Denmark, Portugal, Ireland, Spain, Romania and Germany – to generate between 10 and 40 % of their electricity from [wind](#).

European turbine manufacturers accounted for 78% of the non-China world market in 2014. In a context of high competition and diminishing turbine prices, manufacturers managed to improve their balance sheet thanks to better cost management and reduced raw materials costs. The cost of generating [wind energy](#) continues its downward trend, highly favoured by a reduction in the cost of project financing.

Provided by Joint Research Centre (JRC)

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