



China's wind energy market breaks all records Manufacturers and suppliers give information on their activities at HUSUM WindEnergy

HUSUM WindEnergy – at the Husum Fair site from 21 to 25 September 2010

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Wind energy is a real boom industry – especially in China. The world's wind capacity in 2009 grew by 37.5 GW, or 31%. That brings cumulative global installations up to 157.9 GW, according to the Global Wind 2009 Report of the Global Wind Energy Council (GWEC). Of this total, 13 GW of new wind power capacity were added in China, compared to 10 GW in Europe and 9.9 GW in the United States. This impressive achievement turned China into the world's largest wind market in 2009. Furthermore, from 2005 onwards China has doubled its wind power capacity each year, more than doubling in 2009 from 12.1 GW to 25.1 GW. Danish wind industry research firm MAKE Consulting expects China to increase its total grid-connected wind capacity to approximately 130 GW by the end of 2015. The exhibitors at Husum WindEnergy 2010 who are active in China can therefore expect special interest of trade visitors in their products, projects and services. A number of delegations from China are expected to attend this leading trade fair of the wind energy industry, to be held in Husum from 21 to 25 September.

By 2017 China may have the world's largest cumulative wind capacity, said GWEC's spokeswoman Angelika Pullen, prior to the upcoming Husum WindEnergy 2010. "The China Meteorological Administration has estimated that China enjoys 253,000 MW onshore wind power potential and 750,000 MW offshore. There are 30 turbine producers and 40 suppliers in China," she added. "The country has also substantially boosted its electrical infrastructure capacity. Lack of grid connections often meant that it took up to six months or more until new wind farms could actually go online. Today, it takes only 1 or 2 months."

There are now three Chinese companies among the Top 10 list of the world's largest wind turbine suppliers. Husum exhibitor Sinovel is China's largest and the world's third-largest wind turbine manufacturer based on its market share in 2009. In 2009, Sinovel shipped approximately 2,400 of its 1.5 MW wind turbines and approximately 100 of its 3 MW wind turbines (branded SL3000). Sinovel is also developing an even larger offshore wind turbine model in the 5 MW power rating range which, like the SL3000, is a cooperation project with US-based wind technology developer/supplier and Husum exhibitor AMSC Windtec.

Goldwind Science & Technology ranked fifth in the 2009 Top 10. It successfully manufactures 1.2 MW and 1.5 MW sister direct-drive turbine models originally developed by Vensys Energy of

Germany. Goldwind owns 70% of Vensys share capital and both partners have installed prototypes of a more powerful 2.5 MW Vensys 90/100 model series in their respective countries.

Dongfang, a Chinese company, became the world's seventh largest wind turbine supplier in 2009. Another core activity of Dongfang is the manufacture of advanced permanent magnet type wind turbine generators for Husum exhibitor The Switch of Finland.

European wind turbine suppliers with manufacturing facilities in China include Emergya Wind Power, a Netherlands based company which is already manufacturing a 900 kW direct drive turbine model in China, and will soon be producing a new 2 MW model there. Another example of this kind of cooperation is Avantis Energy of Germany, which has signed a first wind turbine manufacturing partnership agreement with Yinhe Avantis Wind Power Co. Ltd of Southern China.

Chinese companies are increasingly active in the world market, offering a wide range of components to the global wind industry, ranging from castings, bearings and generators, to complete sub-assemblies. The German subsidiary of Zhejiang Jiali Technology Development & Research and its Wuppertal based business partner beotechnic GmbH represent Hangzhou Sound Foundry Co., LTD of China, based in Xiaoshan/Hangzhou, about 200 km from Shanghai.

Yantai Shougang Magnetic Materials Inc. is a leading rare earth magnet supplier with an annual manufacturing capacity of 300 tonnes. These NdFeB-based magnet materials are in high demand for a range of high-tech applications, including wind turbine generators.

Many large European and US-based wind turbine suppliers now have a manufacturing presence in China, including Husum exhibitors Nordex and Siemens Wind Power of Germany, Vestas of Denmark, Gamesa of Spain, and US-based GE Energy. Nordex has received several substantial orders from China since the autumn of 2009. These were for the proven S77/1500 series including a cold-climate version, and 22 turbines of the new S82/1500 turbine series with enlarged 82-metre rotor diameter.

Gamesa has been active in China since 2000 and will again strengthen its presence in China with a fifth manufacturing plant in Jilin province (northwest China), one of the country's prime wind energy regions. The factory, scheduled to begin operating in 2011, will manufacture 2MW G8X-2.0MW megawatt wind turbines and have a production capacity of 500 MW per year. It substantially adds to a first 400 MW facility for 2 MW turbine assembly that became operational earlier this year.

Vestas received an order from China Datang Renewable Power Co., Ltd. at the end of 2009, for 58 of the latest V60-850 kW turbines. Based on the proven V52-850kW turbine platform with a track record of over 3,000 units, the V60-850 kW is Vestas' first-ever market-specific turbine tailored for the dry, harsh wind and weather conditions of northern China.

Among many major component suppliers active in the fast growing Chinese wind market is Husum exhibitor Hansen Transmissions International of Belgium. This global drive system manufacturer

and major supplier of wind turbine gearboxes has production facilities in Belgium and India, and an assembly and testing plant for the Chinese market, located in Tianjin.

Finally, engineering maintenance of wind energy systems is of crucial importance. SKF, a globally active company, is a good example of a leading service provider and supplier of bearings, seals, mechatronics and lubrication systems. The company recently inaugurated a wind industry service centre in Shanghai to cover the Asia-Pacific region.

HUSUM WindEnergy 2010 – the leading trade fair for the international wind industry – is organised in cooperation between Messe Husum and Hamburg Messe. More than 800 companies from at least 30 countries will present their products and services in Husum from 21 to 25 September, including the world's leading wind turbine manufacturers and their equipment suppliers. This dedicated wind energy fair will be the international meeting point and forum for companies and trade visitors. For further information, please visit the website www.husumwindenergy.com

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