

WIND POWER IS BOOMING

Sinovel is the leading supplier in China

SINOVEL
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Sinovel Wind Co., Ltd. is the largest Chinese manufacturer and market leader for wind turbines in China.

Sinovel Wind (Group) Co., Ltd. is China's first specialized high-tech enterprise to have independently developed, designed, manufactured and marketed large-scale onshore, offshore and intertidal series of wind turbines that are adaptable to a global variety of wind resources and environmental conditions. Sinovel has been growing by leaps and bounds. With the new installed wind power capacity of 1,403 MW in 2008, it ranked No.1 in China and No.7 in the world. In 2009 Sinovel had the new installed wind power capacity of 3,510 MW, ranking No.1 in China and No.3 in the world. Looking forward, Sinovel will continue to meet challenges, pursue excellence in a pioneering and creative spirit, strive to build itself into the most competitive wind power equipment manufacturer in the world, and realize the strategic objective of becoming the world's No.1 supplier in 5 years.

► **wind.application:** *Mr. Gang, how do you see the general development of wind power in China?*

► **Tao Gang:** Wind power plays a key role in climate protection and renewable energy, both in China and of course worldwide. As the latest Ernst&Young report on the development of renewable energies shows, China is leading the way: More electricity is produced here from renewable energy than anywhere else in the world. Almost every second wind turbine erected worldwide in 2010 is located in China. The

promotion of renewable energy is also part of the national energy strategy: Around 12% of our electricity demand is required to be provided by renewable energy sources by 2020.

► **wind.application:** *What are the developments taking place in the offshore sector?*

► **Tao Gang:** China's largest offshore wind farm with a total output of 100 MW was put into operation over a year ago: Sinovel erected 34 wind turbines in the 3 MW class very close to the world's fourth longest bridge,



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Tao Gang

Technical Director
of Sinoel

the Donghai bridge near Shanghai, with a length of over 32 kilometers. Last year, the farm supplied clean energy to the World Expo 2010 in Shanghai and now supplies power to around 50,000 homes.

The experiences in Europe show that offshore installations belong to the future. I also see this trend taking place in China, particularly on our country's east coast: There is a huge energy requirement in the rapidly growing industrial cities. The province of Jiangsu and Shanghai have a long coastline with shallow water that is ideally suited for the extensive development of offshore energy. Wind conditions are more stable than onshore, there is no need to build on expensive land, and the distances to the loads are shorter and less expensive to cover.

► **wind.application:** *The total potential for energy from offshore turbines in China is estimated at around 750 gigawatts and around 30 GW of this is expected to be installed by 2020. What projects do you have in the pipeline?*

► **Tao Gang:** Last October we won the tender for the installation of 600 MW of turbines for the offshore farms near Binghay and Sheyang in Jiangsu province, and thus 60% of the tendered output. In November we received the order for a

further 800 MW off the coast of Hami (Xinjiang province) and 550 MW off Zhangjiakou (Hebei province). This is impressive testimony to our robust technology and makes us market leaders for offshore turbines in China.

► **wind.application:** *You are pioneers in the field of multi-megawatt plants in China, as well as building the first 5 MW turbine in China and equipping China's first offshore wind farm. Sinoel is a company that is highly driven by innovation. What role does your technology partner Bachmann play now and in the future?*

► **Tao Gang:** Bachmann's knowhow and experience enables us jointly to implement advanced and future-proof control solutions. We highly appreciate their application support as well as the training made available for our technical personnel. In future we will be testing the use of the coldclimate modules and the condition monitoring solutions specifically for offshore applications. The integration of safety modules in the M1 automation system for our wind turbines is another project on which we are working. This kind of solution definitely has an important role in the future.