Longyuan wind turbine blades

Who is Longyuan Power?

A subsidiary of China Energy,Longyuan Power Group Company Limited (Longyuan Power) was founded in 1993. It is the largest wind operator in the worldand the first specialised firm that produces wind power in China.

What is the quality problem of wind power equipment in China?

Quality problem of wind power equipment has emerged since 2010. Key design techniques still rely on European and American companies. Testing and certification system for wind turbines is imperfectin China. Without enough experience of operation and maintenance,serious test on turbine quality in China is approaching.

How long should offshore wind power last in China?

But in China most of the issues emerge within two or three years . Quality guarantee for offshore wind power must be stricter than onshore projects. The utilization rate of offshore turbine should be more than 95% and the main components should maintain 20-yearservice life.

How will China's Wind power industry change in the 12th FYP?

In the 12th FYP period,Chinese manufacturers will focus on 3-5 MW onshore wind turbines. The upsizing of wind turbinechanges the demand pattern of China's wind power industry and promotes the update of the parts and components. Fig. 2,Fig. 3 show the change of unit size from 2007 to 2010 ,. Fig. 2.

What happened to Rudong wind farm?

However,in the pilot offshore wind power project,Rudong wind farm operated by China Longyuan Power Group,motor in one of the two turbines supplied by Sinovel was damagedafter one year's operation and the availability rate of the turbine is as low as 80%.

What is China's first offshore wind turbine?

In December of 2008,China's first 3-MWdoubly-fed asynchronous offshore wind turbine was put into production by Sinovel. In July of 2010,China's first 3.6-MW double-fed asynchronous offshore wind turbine was put into production by Shanghai Electric. In October of 2010,Sinovel announced China's first 5-MW offshore wind turbine.

How Wind Blades Work. Wind turbine blades transform the wind''s kinetic energy into rotational energy, which is then used to produce power. The fundamental mechanics of wind turbines is straightforward: as the wind ...

Visiting the Longyuan Offshore Demonstration Wind Farm, Global Times reporters were impressed by the colossal turbines fitted to each windmill, as well as the size of the blades, each of which is ...

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The newest member of GE"s 2.5-MW class of wind turbines, the 2.75-103, offers high efficiency, even at low wind speeds. This new turbine features electrical system uprates and GE"s 50.2 proprietary blade design that ...

China Longyuan Power has settled in Guodian New Energy Technology Research Institute. The ceremony was held in Future Science and Technology City in Xiaotangshan, Changping District, Beijing on June 28, at ...

The pitch of your turbine blades--the angle of the blade"s windward edge--is a key factor in maximizing your turbine"s efficiency, especially at low windspeeds. Too low of a pitch and the ...

Ice on the surface of wind turbine blades may result in power production losses and unsafe operations. An effective technological solution to the ice issue is coating de-icing. ...

A typical drag coefficient for wind turbine blades is 0.04; compare this to a well-designed automobile with a drag coefficient of 0.30. Even though the drag coefficient for a blade is fairly constant, as the wind speed increases, the ...

Consequently, wind turbines with fewer or more blades in the CO-DRWT (Counter-Rotating Dual Rotor Wind Turbine) design generate less energy. These results show similarity with the SRWTs (Single ...