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What is wind power generation?
Wind power generation is power generation that converts wind energy into electric energy. The wind generating set absorbs wind energy with a specially designed blade and converts wind energy to mechanical energy,which further drives the generator rotating and realizes conversion of wind energy to electric energy.

What are the components of wind power generation system?
In terms of configuration,wind power generation system normally consists of wind turbine,generator,and grid interface converterswhere the generator is one of the core components. There are the following wind power generation technologies such as synchronous generator,induction generator,and doubly fed induction generator.

What are wind energy systems?
Wind energy systems harness the kinetic energy from wind and convert it into electricity,playing a crucial role in the global shift towards sustainable energy solutions.

How efficient is a wind generator?
A 100%efficient wind generator can transform maximum up to 60% of the available energy in wind into mechanical energy. In addition to this,losses occurring in the generator or pump decrease the overall efficiency of power generation to 35%. III. PRINCIPLE OF ENERGY CONVERSION:

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