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**control systems, maintenance,  
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**Wind PowerWind Power  
Fundamentals**

**A wind turbine is a device that  
converts kinetic energy from the**

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wind into electrical power. The role of wind turbines is to extract energy from wind and convert it to electrical energy. This extraction is subjected to certain limitations represented by Betz's limit which is the maximum energy possible to convert kinetic energy into

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Wind turbine, apparatus used to  
convert the kinetic energy of wind  
into electricity. Wind turbines come  
in several sizes, with small-scale  
models used for providing  
electricity to rural homes or cabins

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**and community-scale models used for providing electricity to a small number of homes within a**

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**fundamental concepts and control methods/techniques for wind turbine control systems. Wind turbine control is necessary to ensure low maintenance costs and efficient performance. The control system also guarantees safe operation, optimizes power output,**

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**and ensures long structural life.**

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wind turbine design. They were  
testing a 65 kW wind turbine, and**

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**have announced plans to develop a 7.5 MW turbine. Their design concept may be a hybrid between torque splitting and a Continuously Variable Transmission (CVT), as they allude to a “friction drive system” to absorb sudden wind spikes. A ...**

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## **Wind Turbines: Fundamentals, Technologies, Application ...**

**Wind turbines work on a simple principle: instead of using electricity to make wind—like a fan—wind turbines use wind to make electricity. Wind turns the propeller-**

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**like blades of a turbine around a rotor, which spins a generator, which creates electricity.**

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