



SIEMENS

Ingenuity for life

## Creating the most from wind

Maximum performance and efficiency  
for wind turbines and wind farms  
with Wind Equipment from Siemens

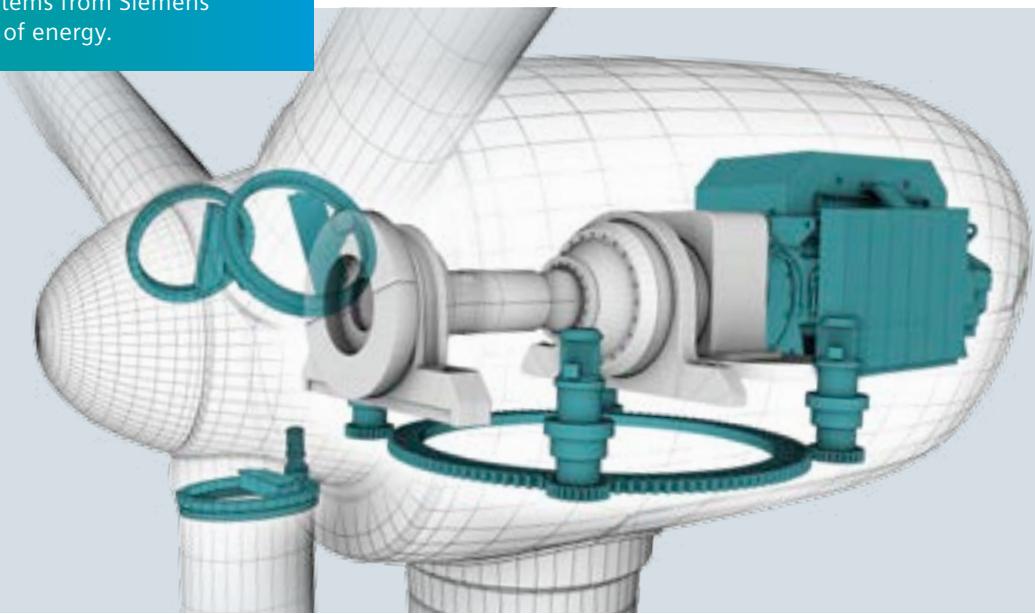
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# Performance and efficiency for wind turbines and wind farms

Wind power plays a key role when it comes to renewable energy. Our products and systems work together optimally to make the best use of this power and actually get the most from the wind. You benefit from the maximum availability and efficiency of wind turbines, low production and maintenance costs, time savings in engineering and commissioning as well as a shorter time to market. These advantages give you a fast return on investment and lower your cost of energy over the long term.

## Reduce your cost of energy

Intelligent software solutions, practical tools, and matched components and systems from Siemens help you to reduce your costs of energy.



### **Faster time to market**

Intelligent software solutions from Siemens make it easier to develop new turbine concepts. With virtual prototyping and virtual testing solutions, you develop new wind turbines faster and more cost-effectively – all the way to market readiness. Practical tools support with planning, and facilitate and accelerate engineering work. Even commissioning is faster – thanks to matched components and easy handling.

### **Maximum efficiency**

We work with platform strategies and offer standardized components and matched systems that can be combined to precisely meet your specifications. Our systems also work together extremely reliably and can thus increase efficiency throughout the plant. Comprehensive testing of the hardware and software in advance are what make this possible.

### **Maximum availability**

Our products and systems have proven their success a thousand times over in a wide range of industries and under the harshest conditions. Designed for maximum performance, they are robust and interact perfectly. All components and systems communicate seamlessly with each other – across all levels. This enables intelligent self-optimization of the wind turbines and self-protection in extreme weather conditions. All machine components can also be continuously monitored and controlled – even

remotely – to prevent damage. Preventive maintenance allows to minimize repair-related down times and systematically plan maintenance deployments.

### **Investment security throughout the entire lifecycle**

Standardized series, high connection compatibility, and extensive system tests as well as the proven industry quality of all components ensure high investment security. As the market leader in automation technology, our experience enables us to ensure the highest possible product and production quality, documented by industry-standard certificates. However, in the event that spare parts are necessary, a high degree of downward compatibility and long-term, global availability of spare parts support rapid replacement and restart.



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In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions only form one element of such a concept.

**For more information about industrial security,  
please visit [siemens.com/industrialsecurity](http://siemens.com/industrialsecurity)**