Eaton’s products and services span a wide range of applications for utility-, mid- and small-scale wind. As a single-source provider, Eaton can meet your needs for both electrical and hydraulic applications for wind turbines and wind farms.

We deliver these solutions for our clients around the globe with three overriding values in mind:

- Reliability
- Efficiency
- Safety

**Electrical wind power technology**
- Power conversion components
- Turbine sensors
- Tower busway
- Base of tower switchgear
- Grid connection switchgear
- Metering and monitoring

**Electrical services**
- Substation construction
- Maintenance
- Retrofit upgrades
- Arc flash and power system studies

**Hydraulic wind power technology**
- Pitch control system
- Hydrostatic drive train
- Hydraulic yaw and drive brake system
- Hydraulic yaw drive
- Lubrication and oil coolant lines

**Hydraulic services**
- Product & system design
- Training
- Fluid analysis

**Legend**
- Electrical
- Hydraulic
A wind farm requires a complex collection of equipment that must work together efficiently to generate electricity and transmit it to the utility grid. Eaton’s components increase reliability in the nacelle’s wind turbine control systems and in the base of the turbine tower.

**Application solutions**

The power conversion components manage the flow in power conversion systems while our base of tower switchgear ensures reliable and efficient energy distribution. Our metering and monitoring solutions, as well as our sensors, report turbine status and power production.

**Customized solutions**

Eaton has the experience and expertise to customize equipment such as power distribution switchgear and metering and monitoring solutions, thus saving you installation costs and making maintenance easier.

**Skilled field services**

Eaton’s Electrical Services and Systems engineers throughout North America provide support in the field for components made by both Eaton and other electrical manufacturers. Eaton’s engineers can provide value-added services such as power system studies and arc flash studies to improve reliability and safety.

**Electrical solutions**

The ability to maximize the performance of wind turbines is critical for efficient supply of energy. Eaton provides pitch and braking control solutions for fast response, reliable output, ease-of-maintenance and safe operation.

**Application solutions**

Eaton offers the critical hydraulic systems for consistent angle control of blades to reach peak performance and robust braking in the toughest weather conditions. Eaton has proven solutions for these demanding applications to provide reliable performance, every time with a broad range of power, motion control and fluid conveyance products.

**Custom design services**

Eaton’s Application and Commercial Engineering (ACE) team works with your engineers to optimize a hydraulic solution with the exact flow, displacement, pressure, torque, speed and control software required to ensure the application needs are achieved.

**Training services**

Our trainers, who have years of industry field experience, provide the education your engineers and project teams need to maintain and service wind turbine hydraulic applications.