Wind energy is free, sustainable, and inexhaustible. Investing in alternative energy sources, such as wind power, will result in a more energy-efficient America.

As a method of generating electricity, a wind farm presents challenges. It requires a complex collection of equipment that must work together effectively to generate electricity and transmit it to the utility grid. Because wind farms are often located in remote areas far from urban services, monitoring and maintaining equipment can be complicated.

Eaton has the solutions you need to meet those challenges. Our services and solutions can help your wind farm operate more reliably, cost effectively and safely.

Eaton solutions for wind power include:
- Hydraulic pitch control, including:
  - Cylinders
  - Power units
  - Pumps and motors
  - Proportional and screw-in cartridge valves
  - Oil filtration and breather systems
  - Hose and fittings
- Hydraulic disc and caliper brakes
Local supply
Wind farms are located across America, many of which are in remote areas. Eaton’s far-reaching distribution network ensures that Eaton products are just around the corner to supply wind farm owners and operators with immediate and inventory needs for hydraulic components and after-sale support.
- Global distribution network

Skilled field service
As wind power has gained an ever increasing importance, so have demands multi-megawatt-producing turbines needing higher levels of control and reliability. Eaton’s Application and Commercial Engineering teams specialize in delivering proven, application-specific solutions and working alongside your team in designing and coordinating the design application through project commissioning and user training.
- Installation services
- Commissioning services
- Maintenance services
- Retrofit upgrades and service
- Onsite custom solutions and services

Durable, reliable components
Wind farm operators require extreme reliability and durability, particularly in harsh environments. Eaton power units, along with control valves and hydraulic cylinders, optimize the pitch angle of turbine blades and thereby power production, while limiting loads on the turbine structure. Eaton hydraulic disc and caliper brakes bring the turbine to a safe and complete stop.
- Control manifolds
- Proportional valves
- Screw-in cartridge valves
- Servo actuators
- Tie-rod cylinders
- Hydraulic disc and caliper brakes

Solutions customized for you
Off-the-shelf equipment may not precisely match a wind farm’s power needs, making it more costly or inconvenient to install. Eaton and its distributor partners can customize equipment to meet your exact pitch and brake control requirements. Among our customized hydraulic products are:
- Power units
- Cylinders
- Disc and caliper brakes
- Valve manifolds

Around the clock performance
Wind turbines must perform around the clock. Eaton’s engineering team will work with you to design an optimal hydraulic system featuring Eaton heavy-duty pumps and motors that work in concert with a well-designed hydraulic filtration system, which helps eliminate contamination and system downtime. Our hydraulic hose options offer superior flexibility, strength, and ease of assembly. Eaton’s wind-worthy hydraulic power units are designed to keep a turbine’s pitch and brake controls up and running—even when the turbine is not moving—and provide a long service life.
- Vane pumps
- Piston pumps
- Filters
- Reservoir breathers
- Hose and fittings
- Power units
- Proportional directional valves

Our industry-leading products and services are designed to deliver:
- Energy Efficiency
- Reliability
- Safety
- Cost Effectiveness

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