



# Wind power high speed permanent magnet generator

What is a permanent magnet direct drive turbine generator?

Permanent magnet direct-drive (PMDD) turbine generators avoid rotor winding losses and mechanical energy losses associated with gearboxes and couplings. The full power converter provides the flexibility to optimize rotor rotational speed for maximum mechanical energy transformation. Compliance with demanding grid requirements.

What is a permanent magnet generator (PMG)?

Permanent magnet generators (PMGs) increase annual energy production (AEP), minimize total life cycle costs (TCLs) and fulfill the strictest grid code requirements. Together with a full-power converter, they enable high reliability, better overall efficiency and the ultimate future-proof grid code compliance.

Who makes permanent magnet generators for wind turbines?

ABB has been developing and delivering permanent magnet generators for wind turbines since 2000, helping turbine manufacturers remain both on schedule and within budget. Leading wind turbine manufacturers trust ABB's expertise, and today most of the megawatt-class permanent magnet generators operating in Europe and North America were built by ABB.

Why do wind power systems use permanent magnet synchronous generators?

For low speed generation, most systems use permanent magnet synchronous generators due to high efficiency and reliability. Commonly there are two types of permanent magnet synchronous generators used in the wind power generation including radial and axial flux generators.

What is a medium speed permanent magnet generator?

Medium speed permanent magnet generators represent a very compact, slower speed solution offering the highest efficiency with low maintenance needs. ABB has strong background in medium permanent magnet design with proven reliability.

What is a switch permanent magnet generator?

As a pioneer, we challenged the wind industry first by making PMGs the preferred technology for offshore wind turbines and then making them commercially available to onshore turbines. The Switch permanent magnet generators increase annual energy production, minimize total life cycle costs, and fulfill the strictest grid code requirements.

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