



SICMEMOTORI

*Permanent Magnet
Synchronous Generators
for
Wind Power Plants*



SICMEWIND

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SICMEMOTORI has developed, in cooperation with the Polytechnic of Turin, technologically advanced **multipolar, permanent magnet synchronous generators** for wind plants. Generators range from 5 to 1500kW (at 18rpm) and offer huge advantages over traditional technologies:

- Direct-Drive capability
- Higher efficiencies
- Lower maintenance

The new generators are custom designed to customer specifications using the latest electromagnetic, mechanical and thermal FEM simulation.

With higher energy production and lower maintenance cost, **SICMEMOTORI's** PM generators technology offer a faster return on investment.

The **SICMEMOTORI** advantage:

- Neodymium, Iron, Boron sintered permanent magnets specifically selected according to application requirements
- High specific power
- High efficiency
- Low starting torque
- Minimum torque ripple
- Virtually maintenance free
- Worldclass generator and motor engineering resources
- Worldclass testing facilities
- Faster ROI

SICMEMOTORI's PM synchronous generators are designed for very low speed, "direct-drive" applications, or for higher speed for "hybrid" systems.

SICMEMOTORI fully customizes the generator design according to customer specifications, to meet the most severe requirements for robustness, reliability and efficiency.

SICMEMOTORI offers customer certification of all generator design utilizing its fully equipped testing facility.

SICMEMOTORI, the world-class leader in the design and manufacture of large horsepower electric motors (up to 2,700 kW) for industrial applications, celebrated its 40th anniversary in 2007.

ISO 9001-2000 certification, lean production and a continuous learning organization make **SICMEMOTORI** the best choice to design and manufacture customized PM synchronous generators for wind turbines.



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