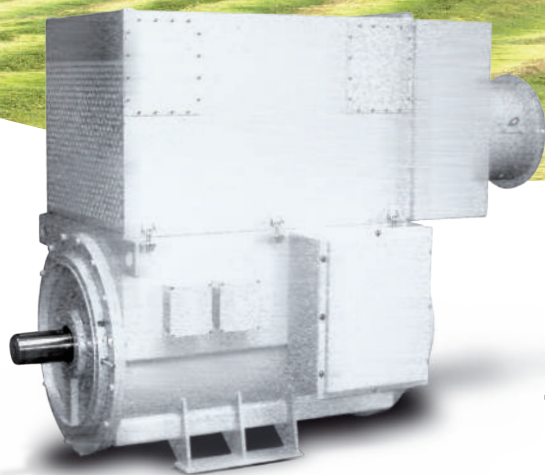


*Variable high speed generators  
for wind turbines with gearbox  
up to 1MW*



**VS**





## Variable Speed: a smart approach to wind industry.

### ***VS variable high speed generators up to 1 MW are developed for wind turbines with gearbox.***

*Variable speed technology applied to the wind industry consists in using, within a predetermined range of speeds, a synchronous generator normally working at constant speed, with an active control on the output voltage while the current is supplied.*

*This allows to maximize the turbine productivity, providing energy with different wind conditions and maintaining in operation the alternator and the control system even in case of over-speed.*

*The systems represents the main guarantee for the turbine safety and full efficiency.*

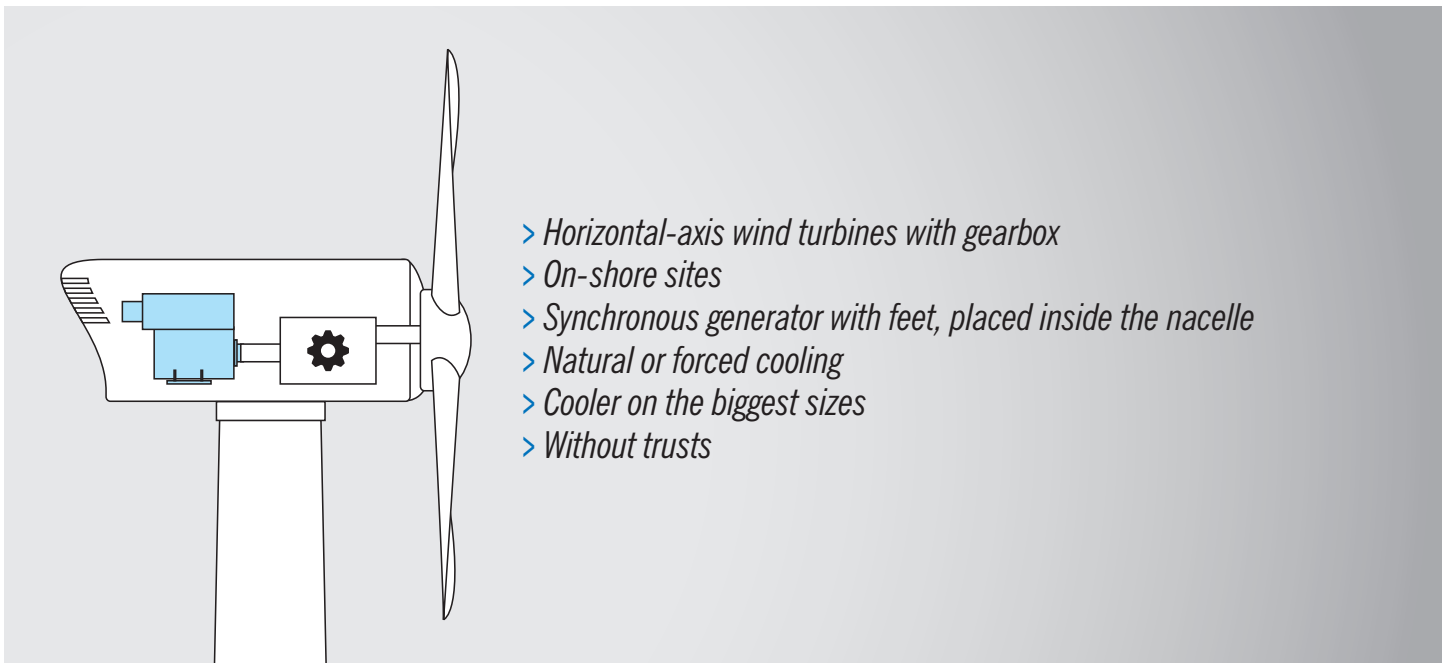
*VS generators can be easily integrated inside the turbine nacelle, assuring the greatest reliability of the performances.*

*Thanks to their versatility, they can also substitute induction generators installed on existing turbines.*

*VS generators are the latest result of the technical excellence of Sogaenergies, Soga SpA's wind energy division.*

*Today, our offer is one of the most complete in the market, including permanent magnet low and medium speed generators (EV series up to 300 kW) and variable high speed generators (VS series up to 1 MW), for small and medium wind turbines with direct drive system or gearbox.*

*For the technical data referred to the models  
[wind@sogaenergyteam.com](mailto:wind@sogaenergyteam.com)*



- > Horizontal-axis wind turbines with gearbox
- > On-shore sites
- > Synchronous generator with feet, placed inside the nacelle
- > Natural or forced cooling
- > Cooler on the biggest sizes
- > Without trusts



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