

EnergyUp Partial Range Siemens Onshore technology

Challenge

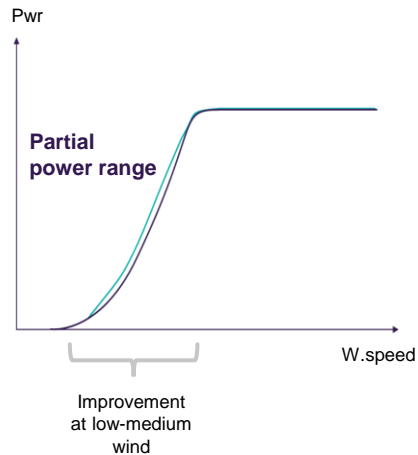
Increase energy production and power output while maintaining safety and turbine longevity.

Solution

EnergyUp Partial Range is a software and advanced wind turbine control feature designed to provide a site-specific Annual Energy Production (AEP) improvement while ensuring the turbine operates within the design wind class load envelope. It optimizes the partial range area of the power curve by refining the rotational speed and pitch settings.

Benefit

- Up to a 1% increase AEP (depending on site conditions and configuration).
- Software solution.
- Minimal investment.
- Fast implementation.
- Similar noise level at 107 dB
- Profitability.
- Improved asset value.



AEP



Improved
performance



Operating
reliability



Trusted
partner



Safety

Applicability

SG 4.3-120, SG 4.3-130.

Industry validation

Certification with DNVGL in progress:

- No impact on the grid, loads or noise.
- AEP gains validated for each specific configuration.

Installation time

1 h/WTG.

Est. lead time

Fast remote software
installation and parameter
setting.

Information is subject to change without prior notice.