

EnergyUp Partial Range Gamesa technology



AEP



Revenue



Operating
reliability



Trusted
partner



Safety

Challenge

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

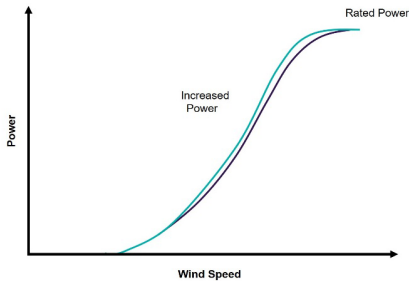
Solution

A comprehensive software controller tuning that optimizes turbine performance below rated power. A new, improved operational curve is defined using advanced aeroelastic models.

Since the upgrade is implemented in low to medium wind operation zones, load increments are negligible, ensuring full compatibility with Life Extension goals.

Benefits

- Energy production increases by up to 2% on G52-850 kW and between 2-6% on G58-850 kW (the AEP increase is site – dependent).
- The solution is compatible with lifetime extension program (based on loads envelope).
- OEM-designed and OEM-validated.
- Measurable increase in energy production can be demonstrated by site-specific measurement campaign.
- Improved revenue from day one.



AEP increase (estimates)

G52-850 kW	G58-850 kW
Up to 2%	Between 2- 6%

Applicability

G52-850 kW, G58-850 kW.

Combined services

Combine with Life Extension to optimize your aging fleet and energy production increase up to year 30.

Designer & maintainer

With over 40 years of experience in turbine manufacturing and operational excellence, Siemens Gamesa plays a diverse role as both designers and maintainers, which is key to our successful partnerships.

We have extensive experience in turbine upgrades and improvements for Siemens Gamesa fleets and are here to help you optimize your business case.

Fleet experience

10,336 WTG ~ 8,786 MW.

Installation time

4 h/WTG.

Est. lead time

Regional service will implement the new software during a turbine visit.

Information is subject to change without prior notice.