

# EnergyUp Full Power Curve Advanced Siemens technology

## Challenge

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

## Solution

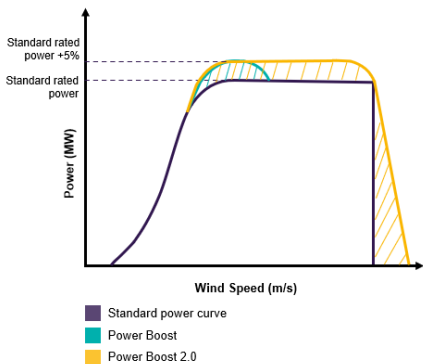
This advanced solution enhances the power production of the Siemens fleet by increasing the standard rated power by up to 5%, depending on site-specific conditions, turbine configuration, and local factors such as wind, temperature, and voltage. The extra energy is produced in the following areas:

- Partial Range.
- Rated Power.
- Cut Out (only for SWT-2.3-101, SWT-2.3-108, SWT-2.3-82 VS, SWT-2.3-93 and SWT-2.625-120).

This is achieved by optimizing the pitch control system in the partial range and, where applicable, extending the wind speed range to capture additional power in high-wind conditions. For turbines that have not been upgraded with EnergyUp Nominal Range, EnergyUp Full Power Curve, Advanced will also increase the revolutions per minute (rpm) along with the rated power.

## Benefits

- Increased annual energy production by up to 3% for turbines not already running EnergyUp Full Power Curve, Advanced.
- Increased power production and improved business case with low risk.
- Measurable and demonstrated output gain.
- Improved AEP at minimized cost while ensuring the integrity of the assets.



AEP



Improved performance



Operating reliability



Trusted partner



Safety

## Applicability

Onshore: SWT-2.3-93, SWT-2.3-101, SWT-2.3-108.

Offshore: SWT-3.6-107, SWT-3.6-120, SWT-4.0-120, SWT-4.0-130, SWT-6.0-154.

## Compatible products

It can be acquired with EnergyUp Partial Range and Cut Out (included for SWT-2.3-101, SWT-2.3-108, SWT-2.3-82 VS, SWT-2.3-93 and SWT-2.625-120) to increase AEP in several areas of the power curve.

### Fleet experience

Approx. 4,500 WTG.

### Installation time

Remote activation 1.5 h/WTG.

### Payback

Depends on the individual case.

### Certificate

DNV-GL certification for all applicable platforms.

Information is subject to change without prior notice.