

Wildlife Protection Bat Rain Sensor integration feature

Challenge

Minimize risk to bats while ensuring compliance with local regulations and minimizing turbine's stoppages due to bats, resulting in higher energy production for the wind farms.

Solution

The Wildlife Protection Bat System with rain sensor integration provides a more precise control over individual wind turbine operations during rain events. The rain sensor integration ensures that turbines stop only when it is not raining, thereby reducing curtailment periods.

The solution includes:

- Configuration of the bat protection module in the Environmental Management tool integrated into the SCADA system.
- Development of an algorithm to manage stoppages due to bat presence, taking rain conditions into account.
- Configuration of network and communication devices to enable connection of the rain sensor*.
- SCADA adaptation to ensure proper operation, including updates as necessary.
- Customer acceptance testing.

Benefits

- Enhanced bat protection: Ensures turbines stop only when bat activity is highly probable, minimizing collision risks.
- Optimized energy production: Smart curtailment reduces unnecessary shutdowns, balancing energy output and wildlife safety.
- Reliable data logging: Consistent logs ensure transparency and support analysis.

* Device, installation and configuration is in the scope of the operator.



Regulation
compliance



Customized
solution



Revenue



Partnership

Applicability

WindNet® PRO.

Compatible products

Can be acquired with other Siemens Gamesa environmental solutions to ensure compliance with local regulations and enhance operational capabilities, ultimately increasing energy production.

Installation time

Depends on site.

Information is subject to change without prior notice.