



CUSTOMER CASE STUDY

LEADING WIND ENERGY COMPANY SET TO CAPTURE \$1.35M PER YEAR IN SAVINGS.

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One of Asia's largest Independent Power Producers (IPP) in the renewable energy industry has launched a trial of Uptake Radar to increase its annual energy production (AEP) and improve the reliability of its diverse fleet of wind turbines.

OVERVIEW

The company is exploring options to increase AEP and improve reliability through advanced analytics at a wind farm in India. In collaboration with Uptake, the company identified a potential increase in AEP of 1% across the entire fleet of wind turbines. This represents \$4,300 in value per turbine per year.

1.0%

improvement across
fleet of wind turbines

\$4,300

in value per turbine
per year

CHALLENGE

A renewable IPP was looking to add smart capabilities to their Control Center where they monitor a diverse fleet of wind turbines.

The objective was improved productivity and reliability across their entire wind portfolio. One of the key requirements for an analytics partner is domain expertise in wind turbines to help them deploy analytics software that addresses their specific needs. They were looking for the ability to leverage weather and SCADA data within a single tool and identify underperforming turbines to help optimize the maintenance program with third party providers.

**SOLUTION**

Uptake worked closely with the IPP's executive team to align available data sets with Uptake's proprietary productivity models and then scoped an initial trial to deliver Uptake Radar for Wind Turbines.

Uptake Radar helps the company address underperformance issues, minimize unnecessary curtailment, and detect frequent issues that affect performance (i.e., wind vane malfunction).

The company's senior manager of technical services said:

"We generally need to wait for one month to get this type of analysis done. With Uptake, it takes a few minutes."

— Senior Manager

Ultimately, Uptake is delivering advanced notice of potential issues that enables the IPP to schedule preventive maintenance.

Ultimately, Uptake is delivering advanced notice of potential issues that enables the IPP to schedule preventive maintenance. The result is an increase of annual electricity production from their turbines. Initial calculations using Uptake's productivity benchmarks show that productivity gains of 1% AEP represent a production increase of \$4,300 per turbine per year. The company agreed to deploy Uptake Radar on a trial basis for 27 turbines at one of their wind sites for three months. Cascading that average production increase across the entire fleet has the potential of resulting in \$1.35M per year across all 625MW.

\$1.35M

**Potential annual savings
across all 625MW**

You have the data to make critical decisions about your energy business at scale. Let us help you use that data to save millions.

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