



Weather Enabled Decision Support Solutions for Renewable Energy

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CHALLENGE

Weather is one of the top three reasons for missed milestones in the construction industry and built environment, with negative impacts costing billions of dollars.

WeatherBuild's mission is to leverage weather data, machine learning and predictive analytics to increase productivity, enhance safety and manage risk.



OBJECTIVES

- Manage weather risks and mitigate schedule impacts to meet commercial operation dates (COD).
- Meet schedule milestones and performance measures in power purchase agreement (PPA) terms.
- Minimize downtime of assets during operations and maintenance (O&M), inspection and repowering.
- Optimize uptime of work crews and equipment resources across geographically distributed sites.
- Prioritize sites and turbines for safe travel and work, as a part of job-safety analysis (JSA).

For EPC Contractors, O&M and Repowering Contractors, and Owners and Equity Investors

RESULTS

Enhance Project Economics

In an investment environment where margins are increasingly under pressure, WeatherBuild helps to preserve and enhance economics across the total project lifecycle: construction and commissioning, operations and maintenance, to repowering.

Improve On-site Decision-making

WeatherBuild's predictive analytics provide wind energy stakeholders with actionable insights to improve situational awareness and make better-informed decisions about weather events, schedule impacts, safety risks and probable outcomes.

Enhance Site Safety & Manage Risk

Site-specific risk assessments include weather risk probability for construction activities, maintenance tasks, and equipment operations, to enable weather risk-adjusted scheduling, time impact analysis (TIA), what-if analysis (WIA), and integrated workflows.

Purpose Built for Construction and O&M

Unlike legacy products that offer the same relatively raw weather data packaged across numerous market sectors, WeatherBuild is a purpose built solution, specifically engineered from the ground up for the construction industry and deeply integrated with project management and production control workflows.

Deep Integration with Project Management

WeatherBuild features deep schedule integration with project management and operation solutions for safety, risk and schedule impact analysis.

"Weather risk management is one of our most important responsibilities to meet our commercial operation date and power purchase agreement."

- Construction Manager, Renewable Energy Services Company

SOLUTIONS

WeatherBuild offers a suite of decision support solutions that empower contractors, owners and operators to improve situational awareness and make better-informed decisions about weather events, schedule impacts, safety risks and probable outcomes.

WeatherBuild Basic

Hyper-local weather risk & lightning reports with automated delivery to your project teams

- Daily weather reports with risk assessments of construction activities
- Automated delivery via email, text messages, and push notifications
- Hyper-local weather data based on the exact geo-location of your project
- Alerts for total lightning strikes and all-clear countdown notifications
- Lightning strike history logs with detail data for site inspections

WeatherBuild Pro

Custom hyper-local weather analytics solution with risk management and dispute resolution tools

- Activities and impacts customizable based on your project-specific requirements
- Integration with your schedule to enable weather risk probability for each activity
- Compatible with Trimble CrewSight, Oracle Primavera P6, and many other formats
- Historical reports of actual weather data with event and impact analysis
- Integration with weather stations and data loggers of actual outcomes
- Plus WeatherBuild Basic



BENEFITS

Increase Productivity

Gain actionable insights in real-time at the point of construction and operations to optimize uptime of your crews and equipment.

Enhance Safety

Ensure the health, safety and environment (HSE) of your project, and safeguard your crews, materials, equipment and resources.

Manage Risk

Evaluate probability and intensity of events, impacts and outcomes, and maximize schedule opportunities to ensure your project goals.

LEARN MORE

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