



Wind

OPS-102

Wind Farm O&M System

As offshore wind farms expand, O&M teams face increasing demands for real-time monitoring, revenue tracking, and collaboration. Wind integrates equipment, weather, and vessel data into a centralized intelligent O&M system covering monitoring, task management, assets, and revenue. With AI analytics, predictive maintenance, and smart scheduling, it improves efficiency, reduces human error, and ensures secure, stable offshore wind operations.

3 Key Features



Real-Time Monitoring and Alerts

Integrates equipment, weather and vessel data for real-time monitoring and automated alerts, enhancing O&M efficiency and safety.



Revenue Tracking and Analysis

Consolidates generation and revenue data to help owners and O&M teams evaluate performance, assess investments, and track long-term returns for more accurate financial decisions.



Task Collaboration and Work Orders

Facilitates cross-department collaboration between engineering and asset teams through smart scheduling and tracking, improving efficiency, reducing errors, and ensuring stable wind farm operations.

5 Key Functions



Operation Control Center (OCC)

Offers a multi-role interface integrating monitoring, tasks, assets, vessels, and weather data. Supports approvals, work permits, and progress tracking, with built-in maintenance forms, alerts, and secure O&M management.



Multi-Site Wind Farm Management

Enables unified management across multiple wind farms with cross-site monitoring of equipment, work orders, and performance to improve efficiency and resource flexibility.



Asset Management and Maintenance History

Builds equipment and maintenance records to track asset lifecycle, using AI analytics and predictive maintenance to boost reliability and optimize O&M planning.



Event Handling and Notification Mechanism

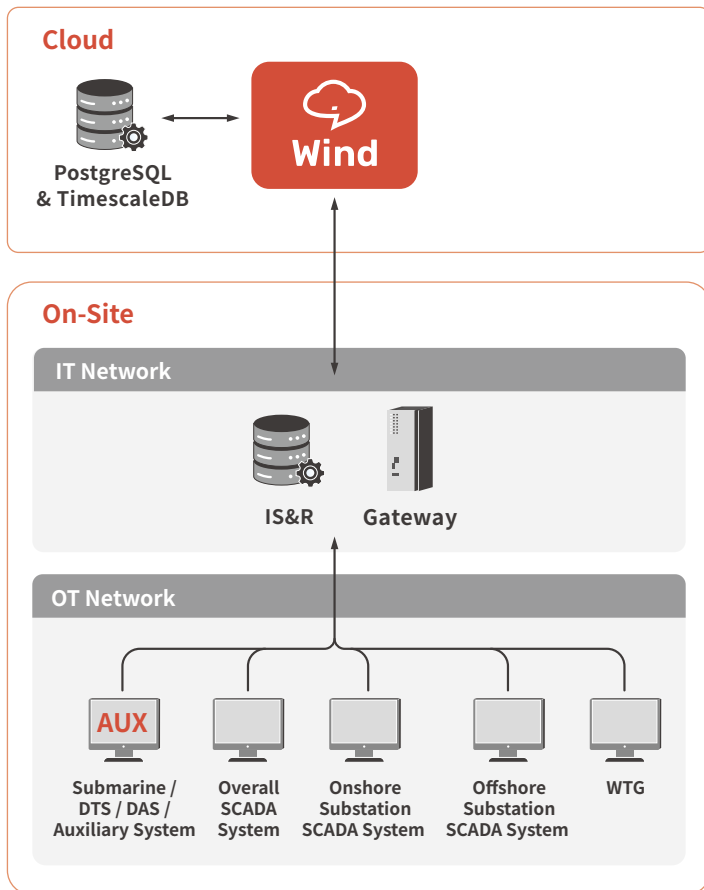
Provides event logging, reporting, and tracking with multi-role collaboration to ensure incidents are quickly resolved and documented. Integrates work order management to auto-assign O&M teams by event type, enabling mobile updates, on-site reporting, and image uploads to boost efficiency and transparency.



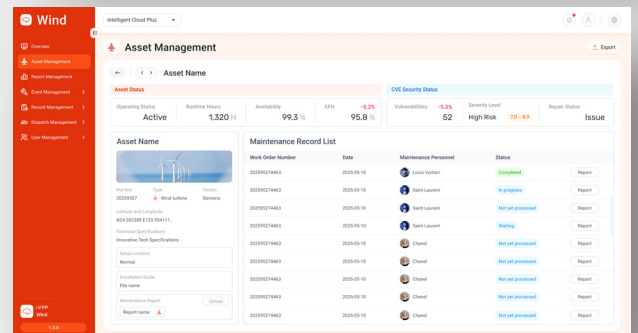
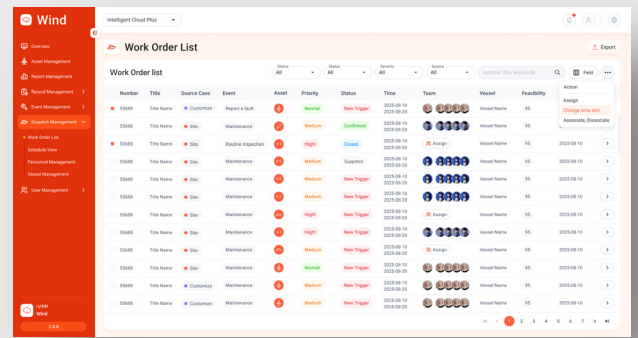
Automated Reporting and Visual Analytics

Automatically generates O&M, asset, revenue, and event reports with charts and KPIs, helping managers quickly assess operation status and make data-driven decisions.

System Architecture



System Interface



Application Fields



Renewable Energy
Developers



Power and Energy
O&M Providers



Smart Grid and
System Integrators

Success Cases



Offshore
Wind Farm Owners
/ Developers



O&M
Service Providers
(Contractors)



Wind Farm Operators
(OCC)



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