



Wind + Sun+ Logica

LOGICA'S RENEWABLE ENERGY MANAGEMENT SYSTEM CONNECTS, MONITORS, MANAGES AND INTEGRATES WIND ENERGY

Key benefits

- Offers centralized real-time remote control and management
- Supports all major turbine vendors
- Receives hundreds of key data points per turbine in real time
- Sends control commands for individual turbines, complete wind farms or substations
- Allows immediate connection to the grid and support for power trading and settlement
- Manages multiple warranties and service level agreements (SLAs)

THE CHALLENGE

North America is driving a renewable energy agenda. As the share of renewable energy increases in its energy portfolio, technical and operational challenges will arise. Mother Nature is still in charge. Safety and reliability are critical. A pool of diverse production assets in remote locations adds complexity. Once captured, energy must be controlled, managed, and transmitted to the grid in line with regulations.

OUR ANSWER

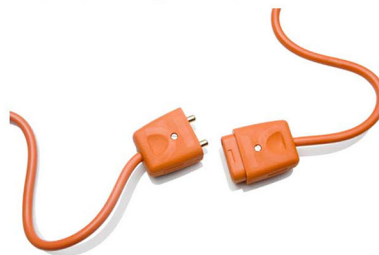
Logica's Renewable Energy Management System (RMS) provides a solution for centralized operation, maintenance, and real-time control of geographically dispersed wind power generation units regardless of the turbine type, substation manufacturer or communication protocol.

Real-time remote management allows operators to start and stop turbines or entire plants from a central location. Centralized control provides the ability to balance electricity output, prevent over- and under-production, and block the network from overload situations.

The RMS system facilitates integration of increased levels of wind energy on the grid while ensuring grid safety and compliance with NERC regulations.

RMS also provides an interface to energy production forecasting. It helps operators plan for maintenance based on accurate forecasting and enables integration with workforce management and other external systems such as metering or energy trading systems.

Streamline management and control of your growing renewable energy portfolio. Choose Logica's RMS, the complete business and technology solution.



Logica

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“We asked several multi-nationals in Spain and Portugal, and it was Logica who presented the best solutions and references for this complex challenge. The project is bound to become an international reference in the renewable energy sector. It will allow consolidation of wind asset optimization and drive EDP’s growth in this area.”

Rui Chousal
EDP Renewables
Project Manager

CASE IN POINT

EDP Renewables is the third largest producer of renewable energy in the world. EDP Renewables chose Logica to implement its wind farm management platform, improve market position and allow for future growth of wind capacity. Wind turbines from all major turbine manufacturers were included and data volumes of 200 - 300 signals per turbine added to the challenge.

To successfully manage this environment, Logica collaborated with EDP to:

- optimize output through centralized wind energy dispatch
- minimize downtime and reduce maintenance costs by monitoring turbine performance and analyzing failures
- enhance grid reliability
- comply with regulations by integrating production data into transmission and distribution system operations.

Today, Logica’s RMS system manages 2 GW of installed production capacity for EDP Renovaveis and this will grow significantly in the near future.

WHY WORK WITH LOGICA?

Logica has over 15 years experience in developing and implementing supervision, control and data acquisition systems (SCADA) and performance management systems. The RMS solution was developed by Logica Iberia based on industry leading platforms and incorporates the international standard for data normalization for wind power plants (IEC61400-25).

We have a flexible, collaborative culture. Our innovative, practical solutions are tailored to client needs. We deliver a blended service model that combines local knowledge with global resourcing. We engage our clients on all levels. We pioneer technology across industries in recognition of the world beyond IT. And, we create new ways for clients to succeed. Our goal is to be brilliant together with you.



Logica is a business and technology service company, employing 39,000 people. It provides business consulting, systems integration and outsourcing to clients around the world, including many of Europe’s largest businesses. Logica creates value for clients by successfully integrating people, business and technology. It is committed to long term collaboration, applying insight to create innovative answers to clients’ business needs. Logica is listed on both the London Stock Exchange and Euronext (Amsterdam) (LSE: LOG; Euronext: LOG).

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