OPERATIONS
CONTROL CENTER
STANDARD SERVICES

- 24/7/365 Remote Monitoring
- Fault Notification & Remote Resets
- Curtailment Management

ADVANCED SERVICES

In addition to our Standard Services, Advanced Services can be added to enhance your plant’s performance. These include:

- SCADA Support
- Balance of Plant Services
- Performance Monitoring
- NERC Compliance Support
INTEGRATED TECHNOLOGY AT THE OPERATIONS CONTROL CENTER

EDF Renewable Services (EDF RS) provides critical 24/7/365 remote monitoring, diagnostics, and troubleshooting from its state-of-the-art Operations Control Center (OCC), increasing equipment availability, minimizing downtime and reducing operational and maintenance costs.

The Operations Control Center combines control center, SCADA and O&M auxiliary services into a Technical Services hub, with a “One Touch” integrated front end monitoring system to improve response times and more effectively track Key Performance Indicators.

Advanced Technology to Increase Customer Revenues

The OCC is equipped with scalable technical infrastructure with component redundancy capable of disaster recovery, mitigating risk and managing compliance. This enhances the OCC’s ability to monitor and diagnose plant performance and to provide additional sophisticated O&M services.

The OCC uses advanced technology to optimize equipment availability and profitability, increasing customers’ revenue around the clock.

Standard and Advanced Service Options for Flexible Solutions

We understand the need for flexible solutions. From our Standard Service offerings to à la carte Advanced Services, we have a breadth of experience that guarantees we create the optimized solution for your assets’ needs. That’s why our world-class services organization partners with customers to develop comprehensive service solutions from our Standard or Advanced Services to best fit your asset needs.

Minimize Downtime through Real Time Fault Notification

Increase Availability with Rapid Remote Response

Maximize Profitability with Curtailment Management

Ensure Compliance with NERC Support

Mitigate Risk through Clearance Management
WHY EDF RENEWABLE SERVICES OCC?

- **Maximized Revenue**
  The Operations Control Center helps EDF RS respond in real-time to site issues and customer needs, decreasing downtime, increasing site availability and thus yield, resulting in maximized revenues and profitability.

- **Collaborative Troubleshooting**
  Specialists at the OCC work in collaboration with the customer, looking at operation and performance issues to ensure the plant equipment is operating to full function.

- **Customized Reporting**
  Daily and Monthly reports provide a record of key operating parameters and significant operational events, trends and anomalies. This data is summarized to assist with the identification of performance shortfalls and the planning of maintenance activities.

- **Reliability**
  EDF Renewable Services’ OCC monitoring and reporting provides confidence that the project is operating at maximum efficiency and following reliability standards.

- **Safety**
  The robust clearance management system ensures the safety of technicians and avoids damage to project site assets.

- **Expertise**
  EDF RS has a 25 year history as an O&M provider, bringing decades of expertise to each plant. As an owner/operator, we understand the opportunities and challenges faced every day in the renewable energy business.
As renewable energy projects come under more scrutiny and regulation typical with other traditional generators, we are preparing for the future and enhancing our cyber security and compliance capabilities. EDF Renewable Services is listed as Generation Operator in the NERC Compliance Registry with Western Electricity Coordinating Council, and is in the process of meeting the corresponding mandatory compliance standards as set forth by NERC Reliability Standards.

EDF Renewable Services’ comprehensive implementation plans to meet the significant changes in the NERC CIP Standards have already begun. The OCC expansion and modernization provides a perfect opportunity to continue our strong commitment to provide best-in-class service to our valued customers while helping to improve cyber security over the nation’s Bulk Electric System (BES).

In accordance with the NERC’s implementation schedule EDF RS will be well-positioned to offer additional service offerings with significant reliability compliance benefits to our customers including:

- Confidently evaluate the state of NERC compliance across the organization (even when outsourced)
- Confidently rely on compliant NERC CIP best practices
- Effectively maintain mandatory regulatory compliance documentation
- Quickly respond to NERC audit data requests
Activities represent projects in various stages of development, construction and ownership as of 12.31.13

NORTH AMERICAN PRESENCE

UNDER OCC MONITORING

→ 6,000+ MW
→ 3,500 turbines
→ 300 solar inverters
About EDF Renewable Services

EDF Renewable Services understands renewable energy facilities represent a substantial investment. With over 25 years of experience we are the trusted leader to ensure maximum project availability and profitability for owners and investors. As part of a global organization with utility-scale wind, solar, and biomass plants across North America, we bring a depth of expertise to every project.

From remote monitoring of facilities to full operations & maintenance services, EDF Renewable Services offers flexible service plans that adapt to fit a wide spectrum of customer needs.

We design preventative maintenance programs encompassing inspections, plant check-ups, and incident analysis, and can arrange for corrective maintenance to be performed on site. We work closely with our customers to keep maintenance costs as low as possible, including tight budgetary control over spare parts and tool purchasing, and sharing budgetary data on a fully transparent basis.