

# From site to fleet

*EDF power solutions unlocks  
AI-ready data in minutes,  
not months*



## The Challenge

EDF power solutions faced the challenge of integrating a combined Solar + Battery Energy Storage System (BESS) site into its digital operations environment. The various components—including inverters, Power Plant Controllers (PPC), and SCADA systems—utilized proprietary tag naming conventions and industrial protocols such as Modbus and DNP3. This created a complex and heterogeneous data landscape. Normalizing this data for fleet-wide analytics through manual engineering would take months.

The challenge was compounded by the requirement to securely connect Operational Technology (OT) data to the cloud while complying with NERC CIP standards further complicating the situation. Without this more efficient approach, EDF power solutions risked months of data engineering and onboarding time, delaying fleet-wide adoption of AI and analytics unlocking business value.

## The Solution

At Maverick 6, EDF power solutions deployed the Nexalis Industrial Data Foundation for the first time in a production environment. Nexalis centralized raw site data, unified vendor-specific tags into a standardized Solar + BESS reference model, and established a secure, NERC CIP-aligned pipeline into Databricks.

Nexalis took an ELT-first approach, loading raw OT data directly into the platform, where transformations and machine learning workflows run at scale. This approach

preserved the data fidelity, accelerated AI use cases, and kept all data governance in the Databricks lakehouse. Nexalis ensures that the data is clean, structured, and compliant from day one.

## Results

- **Rapid Onboarding**  
Operations in under an hour vs industry norms of weeks
- **Unified Data Mode**  
15,000+ inverter/PPC/SCADA tags normalized automatically
- **Scalability**  
Collecting 46,815 data points at a rate of over 1,000 events per second
- **Cost Avoidance**  
Avoided hundreds of data engineering hours per site
- **Market Value**  
Enabling faster analytics for participation in CAISO through improved forecasting and trading





## MAVERICK 6 SITE PROFILE

### Location

Riverside County, California

### Technology

Solar PV + Battery Energy Storage System (BESS)

### Capacity

131 MWdc solar,  
plus 50 MW (200 MWh) BESS

### Developer & Operator

EDF power solutions

### Commercial Operation

2021



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*With Nexalis, we achieved unified visibility of a complex solar and BESS site in record time. We now have standardized data readily available in the cloud, which not only streamlines operations today but positions us for AI-driven performance optimization across the fleet. What impressed us most was how quickly the team onboarded and how seamlessly the data was delivered—clean and ready to use. It gives us a clear playbook for the rest of our fleet.”*

### MARK JOHNSON

Executive Vice President for Asset Optimization  
EDF power solutions



## Summary

Maverick 6 is the inaugural production deployment of Nexalis at EDF power solutions—proving rapid onboarding, secure OT-to-cloud integration, and immediate AI-readiness. This single site serves as a blueprint to scale digital transformation across EDF power solutions’ fleet.

Transform industrial data into operational intelligence.

