

NX Data Monitoring and Control Platform

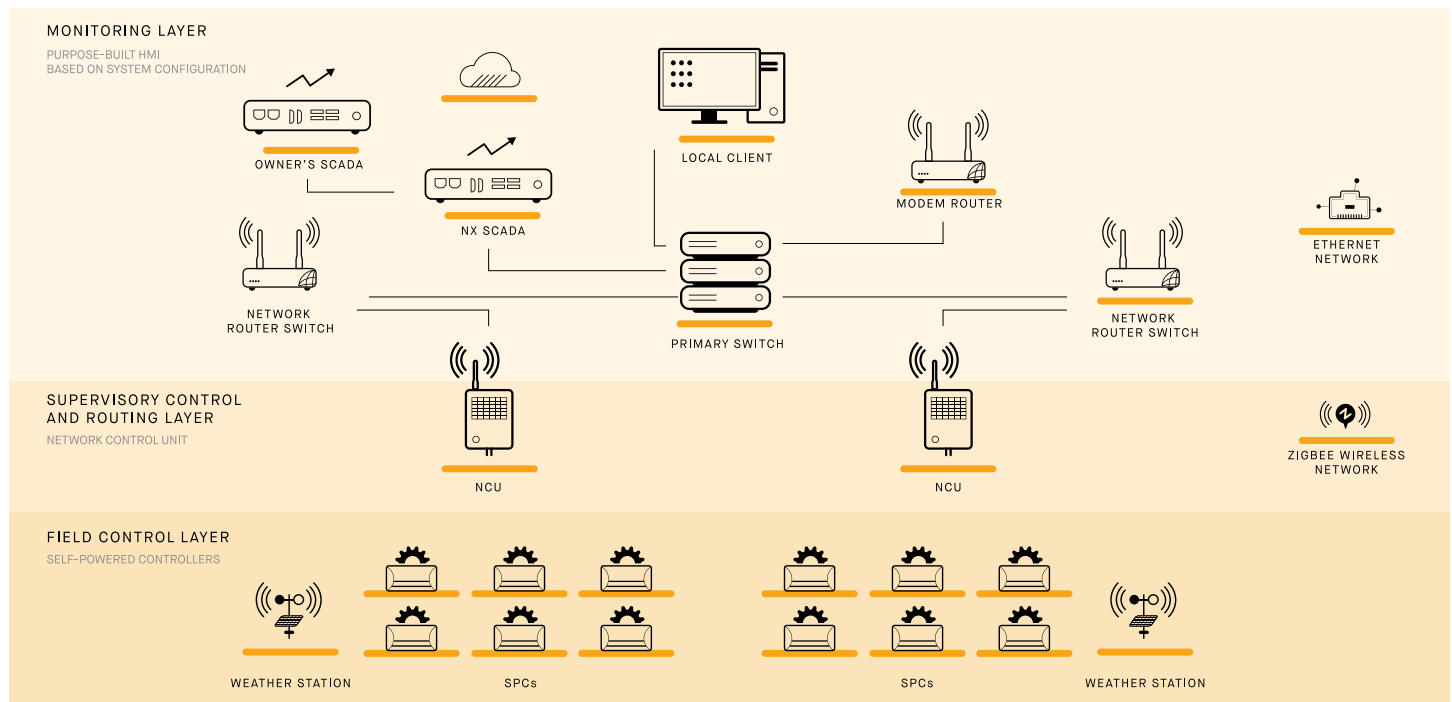
For optimal energy performance in a secure environment



Purpose-Built for Advanced Data Analytics

The NX Data Monitoring and Control Platform allows customers to collect the data from NX Horizon™ solar trackers and bring it together in one central place, making the job of integrating all that data into their own plant SCADA much simpler. Our data hub incorporates a suite of advanced data- and software-driven digital services for both tracker and energy storage systems that can dramatically improve asset management efficiency and lower operating costs. Through machine learning, predictive modeling and other technologies, our purpose-built, utility-grade data management platform continuously monitors the health and performance of the individual tracker components and overall system operations via our secure communications network.

NX Data Monitoring and Control Platform



Remote Monitoring and Control

The NX Data Monitoring and Control Platform provides sitewide data visualization with an intuitive graphical user interface, collects and visualizes weather station and tracker-row-level data for up to six months, and brings together the aggregated tracker operational metrics from across the solar PV power plant. The platform can dispatch aggregated commands to the site, block or individual trackers.

Secure Platform for Digital O&M

The NX Data Monitoring and Control Platform collects a wealth of granular data from the arrays and uses advanced diagnostic capabilities such as the Digital O&M™ software service to turn that information into meaningful action. The cybersecure NERC-CIP compatible data platform learns from each data point and helps asset owners save on O&M costs by better managing scheduled and unscheduled maintenance, identifying installation issues with pattern recognition technology and enhancing warranty support.

Case Study

Once completed, Villanueva Solar will be the largest PV power plant in the Americas. It will also be the smartest, thanks to NEXTracker's NX Data Monitoring and Control Platform. Built on Flex's cybersecure SmartNexus™ connected intelligence platform, the system will provide advanced data analytics, management and services capabilities, enhancing operational control of NEXTracker components.

NX Data Monitoring and Control Platform Technical Specifications

Communication Protocols:

NX Talk over TCP/IP with NCU
 NX Talk over ZigBee with trackers
 OPC-UA with client SCADA
 No MODBUS register mapping needed

Physical:

Ports: 2 HDMI, 4 USB, 2 Gb LAN, 1 DC jack
 Mounts: DIN-mount, VESA-mount, wall-mount
 Dimensions: 196 mm x 36.75 mm x 141 mm

Electrical:

Input voltage 110V or 240V

General:

Connects with up to 120 MW
 Operating temp 0°C to 45°C
 Fanless system for indoor use only

Compliance:

CE standards applied (EN 55022/EN 55024/EN 60950)
 Assembled using FCC-certified components
 RoHS

Firmware:

Proprietary NX firmware v1.0 or later

Project Name: **Villanueva Solar** Developer: **Enel Green Power** EPC: **NEXTracker**

Location: **Coahuila, Mexico** Project Size: **754 MW**

