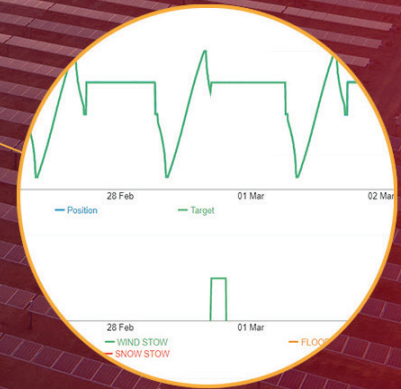


NX Data Hub

For optimal energy performance
in a secure environment

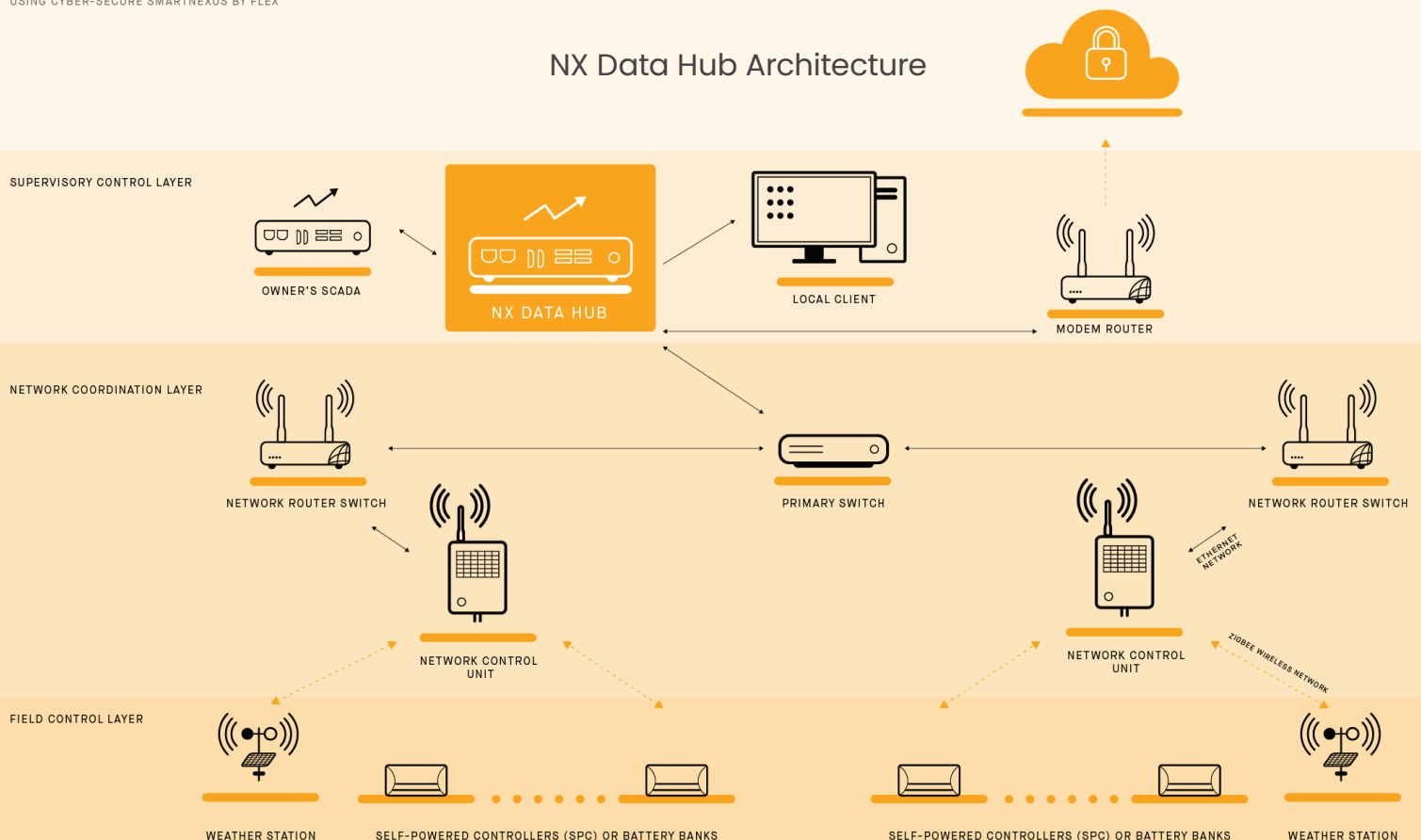


Purpose-Built for Advanced Data Analytics

The NX Data Hub allows customers to collect the data from our smart 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 CLOUD
USING CYBER-SECURE SMARTNEXUS BY FLEX

NX Data Hub Architecture



Remote Monitoring and Control

The NX Data Hub 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 Hub 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.

NX DATA HUB 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

Case Study

The landmark Villanueva Solar Power Plant in Coahuila, Mexico is the largest PV plant in the Americas. It also be the smartest, thanks to Nextracker's NX Data Hub. Built on Flex's cybersecure connected intelligence platform, the system provides advanced data analytics, management and services capabilities, enhancing operational control of Nextracker tracker performance.

Name of Project	Villanueva Solar
Location	Coahuila, Mexico
Developer / Owner	Enel Green Power
EPC	Nextracker
Project Size	828 MW



Villanueva Solar Power Plant, Northern Mexico.
828 MW with NX Horizon Smart Solar Tracker
using NX Data Hub.