NX Flow unique benefits include:

- Smart, connected software solution integrating Flex's cybersecurity, NERC-CIP compliant data platform with Nextracker's Digital O&M™ control software and asset management offers safe and complete system analytics, preventive maintenance, and monitoring.

- At the core of the system lies an advanced vanadium flow battery (VFB) that can discharge 100% of stored energy with little to no degradation*, even under extreme duty cycles. This has been validated by DNV-GL, a respected independent engineering firm.

- The battery is DC-coupled with the PV array, thereby dramatically improving round-trip inverter efficiency versus typical AC-coupled battery systems.

*Nextracker internal field testing reveals 10 years of continuous cycling with zero degradation.
When it came time to recommend a solar-and-storage solution, Nextracker was not only the clear choice with its next-generation technology and trackers, but its customer-first approach is second to none, and the short product delivery lead times on an accelerated schedule were essential.

– Amy Van Beek, Cofounder, Ideal Energy

NX Flow Features and Benefits

**NX Horizon™ Solar Tracker**
- Self-powered tracker — no grid power required
- Integrated back-up battery
- Motor and tracker controls
- Up to 120-degree (±60) tracking range
- Zigbee wireless network

**NX Machine Learning Predictive and Software optimization**
- Analytics to maximize project IRRs
- Digital O&M™ to resolve potential issues in the field
- Automated commissioning
- SmartNexus™ intelligent cybersecure platform
- Data security / NERC CIP compliant

**Vanadium Flow Battery (VFB)**
- 10 kW-AC nominal, 4 hour duration
- 40 kWh-DC energy rating
- Integrated thermal management and BMS

- 100% depth of discharge with <1% lifespan degradation
- Performance service agreement
- Integrated EMS
- Zigbee wireless network
- Controller integrated into NX data and communication platform
- Ships wet, no battery assembly required
- Simple and quick installation

**String Inverter**
- Three-port design allows direct PV-to-battery charging
- 30 kW native rating
- 1000 Vdc rating
- Integrated EMS
- DC-coupled for direct PV-to-battery charging
- Direct PV to grid inverter capability
- Direct battery to grid inverter capability
- String-level monitoring