

# Stellar Microgrid OS™

## Mission Control for your Microgrids

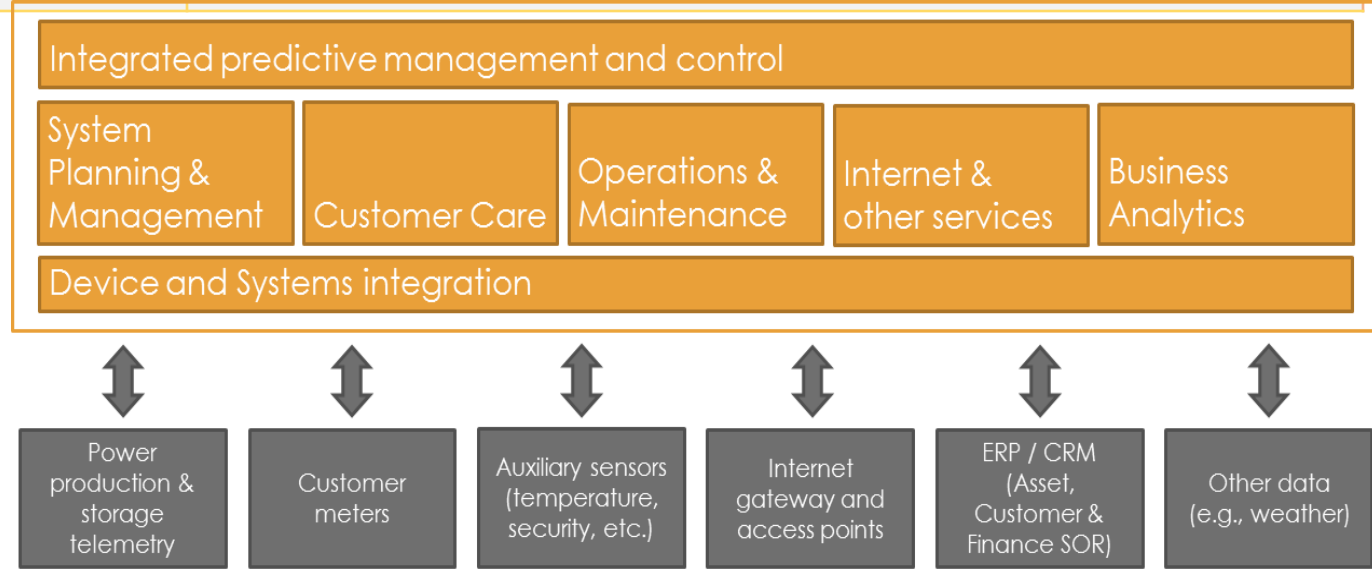
### Reduce Costs & Improve Operational Efficiency

Stellar Microgrid OS™ was designed by microgrid operators for power asset portfolio managers. The Stellar platform connects to installations in any location, owners and operators can remotely monitor and optimize distributed power systems in real-time.



The heart of the Stellar platform uses IoT technology and cloud-based software architecture for power systems monitoring and control. By collecting and normalizing data across multiple sites down to the component level, Stellar provides insights to leverage best practices and optimize system performance. Integrated modules such as incident ticketing and customer relationship management (CRM) streamline business and operations.

<p><b>Key Features</b></p>	<ul style="list-style-type: none"> <li>• Easily track power system portfolio status and performance detail</li> <li>• Monitor and control customer power consumption, credit and payment history</li> <li>• Status monitoring and machine learning generates automated notifications for anomaly detection and opportunities for optimization</li> <li>• Technology agnostic; assemble systems from best-of-breed smart components</li> <li>• Analyze data from disparate smart components with simplified, unified download</li> <li>• Quickly access all incidents with associated descriptions for each power system component for troubleshooting and customer support</li> <li>• Full alert and ticketing reporting</li> </ul>
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# Stellar Edge™

## Mission Control for your Microgrids

### Rugged And Smart Power Systems Controllers

Stellar Edge™ is innovative IoT (Internet of Things) hardware for remote data acquisition, sensing, and control. Stellar Edge executes commands for all distributed power system components and streams data to the cloud visualized by New Sun Road's Stellar Microgrid OS™.



Hardware-agnostic, StellarEdge is compatible across a wide range of protocols and devices. With local caching capabilities, the controller protects against data loss during network outages. Hybridized local and cloud-based architecture enables control optimization via machine learning and ensures availability of real-time insights anytime, anywhere.

<b>Key Features</b>	<ul style="list-style-type: none"> <li>Local logging and data cache protects against outages</li> <li>Configurable sampling rate: as high as 1s</li> <li>Designed for proximity to power and communication electronics</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>Wi-Fi (802.11AC)</li> <li>1x RJ45 (10/100/1000 Mbit/s)</li> <li>1x I2C expansion</li> <li>1x 1-wire for climate sensing</li> <li>2x USB 2.0 socket</li> <li>2x USB 3.0 socket</li> <li>1x Isolated RS-485 Modbus RTU</li> <li>1x Isolated CAN-Bus</li> <li>8x 24 VDC digital inputs</li> <li>4x 24 VDC digital outputs</li> </ul>
<b>Power Supply</b>	24VDC (5W average, 15W peak)
<b>Environmental conditions</b>	<ul style="list-style-type: none"> <li>Ambient operating temperature: -20°C to +60°C</li> <li>Humidity: 93% (non-condensing)</li> <li>Protection class (no NEMA enclosure): IP20</li> </ul>
<b>Size</b>	90 mm x 150 mm x 60 mm
<b>Warranty</b>	2 years from date of shipment

# Stellar IS™

## Integrated Systems with Remote Monitoring and Control

### Modular Power & Connectivity Solutions

Stellar IS™ is an easy-to-install complete renewable energy microgrid product that can produce 2- 8 kW of solar power with advanced battery storage and provide wireless connectivity.



It can be connected to any source of power generation and controlled by the comprehensive Stellar Microgrid OS™, which lets operators manage and run one or more systems remotely while optimizing performance and minimizing costs. Offered in a container or pod configuration, our power systems engineers have designed Stellar IS™ to cost effectively deliver in the most remote locations and harshest environments. With over 200 microgrid systems installed in over 20 countries, New Sun Road can deliver a provens solution for your energy access requirements.

<b>Key Features</b>	3-30 kVA inverters 2-24 kWp of solar panels 13-52 kWh storage (L-ion) with operational optimization AC-input ready, generator or grid
<b>Communications</b>	Connectivity: broadband internet, hotspot up to 15km Cloud-based dashboard using Stellar Microgrid OS™
<b>Applications</b>	Businesses, institutions, offices and production centers Telecommunications towers Schools, vocational centers, clinics, community buildings Disaster response
<b>Benefits</b>	Low maintenance, remote monitoring and troubleshooting Increased energy access and reliability Internet connectivity