

Heila EDGE[®]

Control & Optimization.
Monitoring & Analytics.
Operation & Maintenance.

The decentralized and modular Heila EDGE microgrid control platform simplifies and standardizes the connection and optimization of solar arrays, batteries, and other distributed energy resources (DERs) by converting DERs into intelligent agents that interact and create systems to build self-managing microgrids and fleets from the ground up.

Heila EDGE[®] ensures widespread DER component interoperability to improve resource dispatching for:

- Optimized utilization of on-site DERs and microgrids
- Maximized market participation uptime
- Reduced costs and increased resiliency
- Flexible and scalable distributed energy systems



Simplify Microgrid Controls

The Heila EDGE provides user-intuitive controls and optimization that create a standardized ecosystem for asset deployment and integration across multiple energy resources.



Boost Resilience

The Heila EDGE facilitates resiliency modes of operation, such as automatically islanding and re-synchronizing DERs with the grid, allowing systems to continue operating without external communications.



Optimally Control Assets

The Heila EDGE lets you precisely control real and reactive power across multiple DERs in numerous operational scenarios and efficiently coordinate the grid support capabilities of DERs under control.



Obtain Cost Consistency

The Heila EDGE mitigates project-by-project variations in installation costs due to its modular and predictable system configuration process.



Minimize Failure Risks

The EDGE provides redundancy and minimizes the risk of single points of failure due to its decentralized control scheme.



Optimize Site Economics

The EDGE's optimization software enables economic optimization for grid-tied and islanded systems — including solar over-generation recapture, energy arbitrage, demand charge management, and time-of-use (TOU) rate avoidance.



Use Onsite or Remote Access & Control

Heila offers onsite and remote data access and control, providing powerful data visualization, archival, reporting, and exporting tools through an accessible and intuitive user interface.



Maximize Asset Compatibility

The Heila EDGE is compatible with industry-standard protocols and has a growing number of compatible equipment vendors for easy plug-and-play capability.

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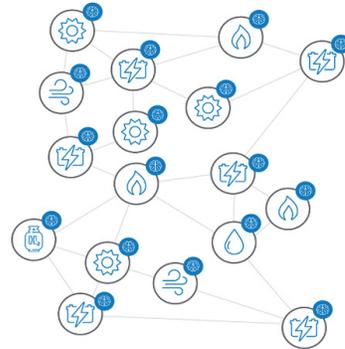
A Distributed and *Intelligent* Approach

Heila EDGE[®] supports a hybrid approach and is dynamic, self-healing, fully scalable, with no single point of failure, and responds in real-time.



Centralized Control

Single central device monitors, controls and optimizes all the DERs for both local objectives and system-level goals.



Distributed Control

Add intelligence to each DER to control and optimize for both local objectives and system-level goals.

Feature	Description
System Processor	4x ARM CortexTM-A9
Memory Module	2GB DDR3 (64 Bit)
Storage Drive	64 GB
Input/Output(s)	2x USB Ports 1x RS-485/422 Port 1x RS-232 Port 2x CAN Bus Ports 1x Ethernet Port (For Upstream Controllers) 1x Ethernet Port (For Downstream Assets) 8x Analog Inputs, 2x Analog Outputs 4x Dry Contact Inputs, 4x Dry Contact Outputs 2x Digital Inputs, 2x Digital Outputs
Input Voltage	12-24 VDC
Current Consumption	12V: 0.5A idle (1A peak) 24V: 0.24 idle (0.5A peak)
System Cooling	Passive
Ambient Temperature Range	-20°C - 70°C
Storage Temperature Range	-40°C - 85°C
Humidity	5% to 95% (non-condensing)
Maximum Altitude	3,000 m
Pollution	Pollution Degree 2
Case Dimensions	7.87 x 5.70 x 2.20 in (200 x 145 x 56 mm)
Optional Outdoor Enclosure Rating	NEMA 4 - 10 x 10 x 6 in (254 x 254 x 152.4 mm)



Pioneering the Future of Microgrids

Learn how Heila EDGE[®] helps you at Heilatech.com