



# Member Update Presentation NAATBatt 2025: Extending Range

# What We Do

Nuvation Energy provides battery management systems and engineering services to organizations designing and building energy storage systems.



## Battery Management Systems

UL 1973 Recognized battery management systems for large-scale stationary energy storage.



## Energy Management Solutions

Energy storage controllers for demand management, solar integration, power backup, and other applications.



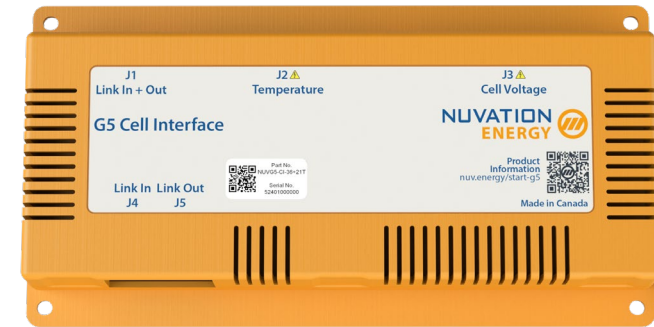
## Engineering Design Services

Design and integration services for ESS solutions, customer-specific BMS variants for new battery technologies.

# The New 36-Channel CI

## High-Voltage BMS

- Allows for higher density energy storage systems, particularly those using 52s and 104s battery module configurations
- Compared to the CI-24, the CI-36 provides:
  - Additional battery cell measurement channels, up to 36
  - Additional thermistor measurement channels, up to 21
  - Additional Linkbus connection option suited for certain battery module/tray designs
  - Compatible with existing Gen 5 Stack Switchgear



Nuvation Energy has shipped battery management systems that support over **1GWh** of energy storage.



**Hundreds** of installations worldwide

# Continued Dedication to Secure Solutions

Nuvation is the only North American utility scale BMS available for purchase

## North America Manufacturing

- Manufactured at trusted North American sites
- Components sourced directly from the manufacturer or trusted distributor
- No grey market or similar source purchasing
- Manufactured and assembled at ISO 9001 UL audited facilities
- All test fixtures designed and built by Nuvation
- All test fixtures employ hardware and software security features

## Counterfeit Protection

- Nuvation BMS implements an authentication process
- Ensures no counterfeit products are used during BMS operation

## Encryption

- Use of industry standard disk encryption
- Hardware security features on products
- Protects hardware from physical tampering and intrusion

## Data Protection

- Use of detailed logging measurements, system status, and software activity on products
- Ensures relevant activity can be tracked for security audits and analysis

## Network Security

- Use of industry standard secure communication protocols (HTTPS, SSH) on internet connected products
- Ensures secure, authenticated communication and data transfer

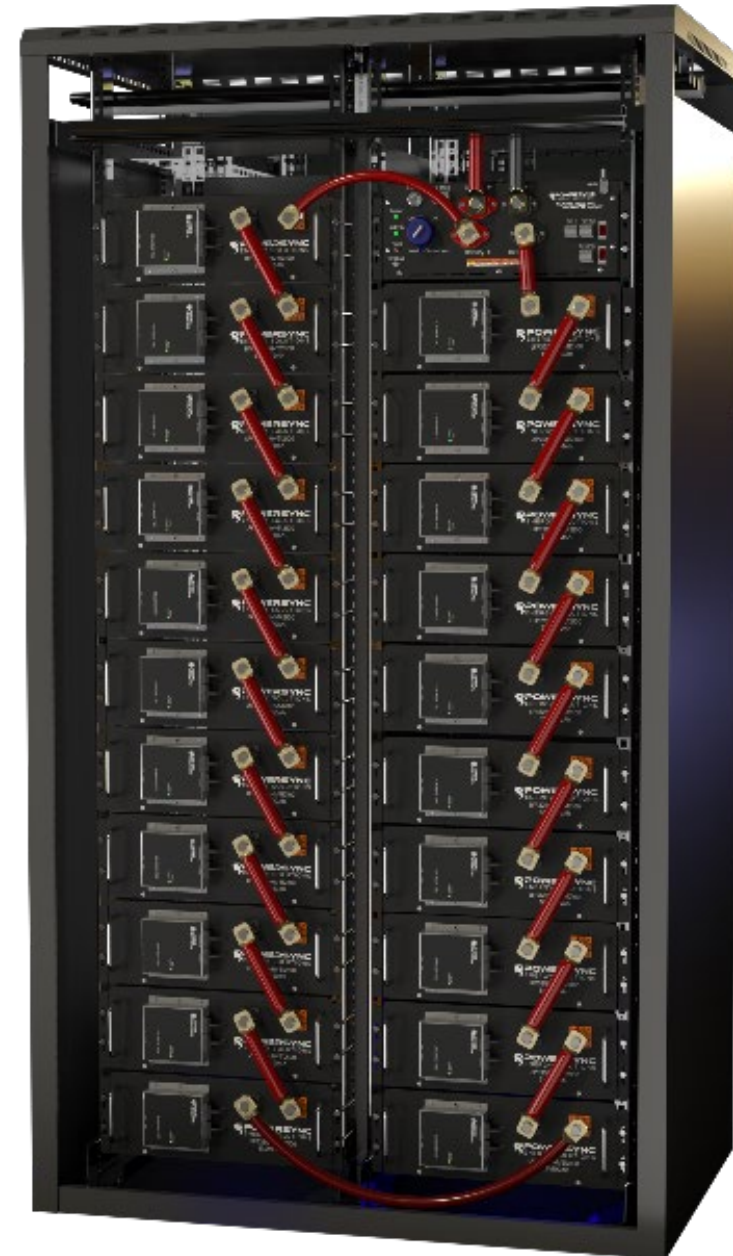


# Customer Example:

## DC-Coupled Microgrid

Project: Install a 194 kW Solar PV Array and ESS to supply minimum 24hrs of critical backup power

- Uses Nuvation high-voltage Battery Management System and Energy Management System



# Customer Example:

## EVLO: Utility Grid and Behind the Meter

- EVLOFLEX: Configurable as 1.65, 2, or 2.5 MWhr
- LFP batteries monitored by the Nuvation Energy battery management system
- Energy applications include:
  - T&D Investment Deferral
  - Congestion Relief
  - Resource Adequacy
  - Renewable Integration
  - Backup Power
  - Peak Shaving
- ESS designed and manufactured in North America
- 100% of electronic components come from North American suppliers, including Nuvation's BMS!





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