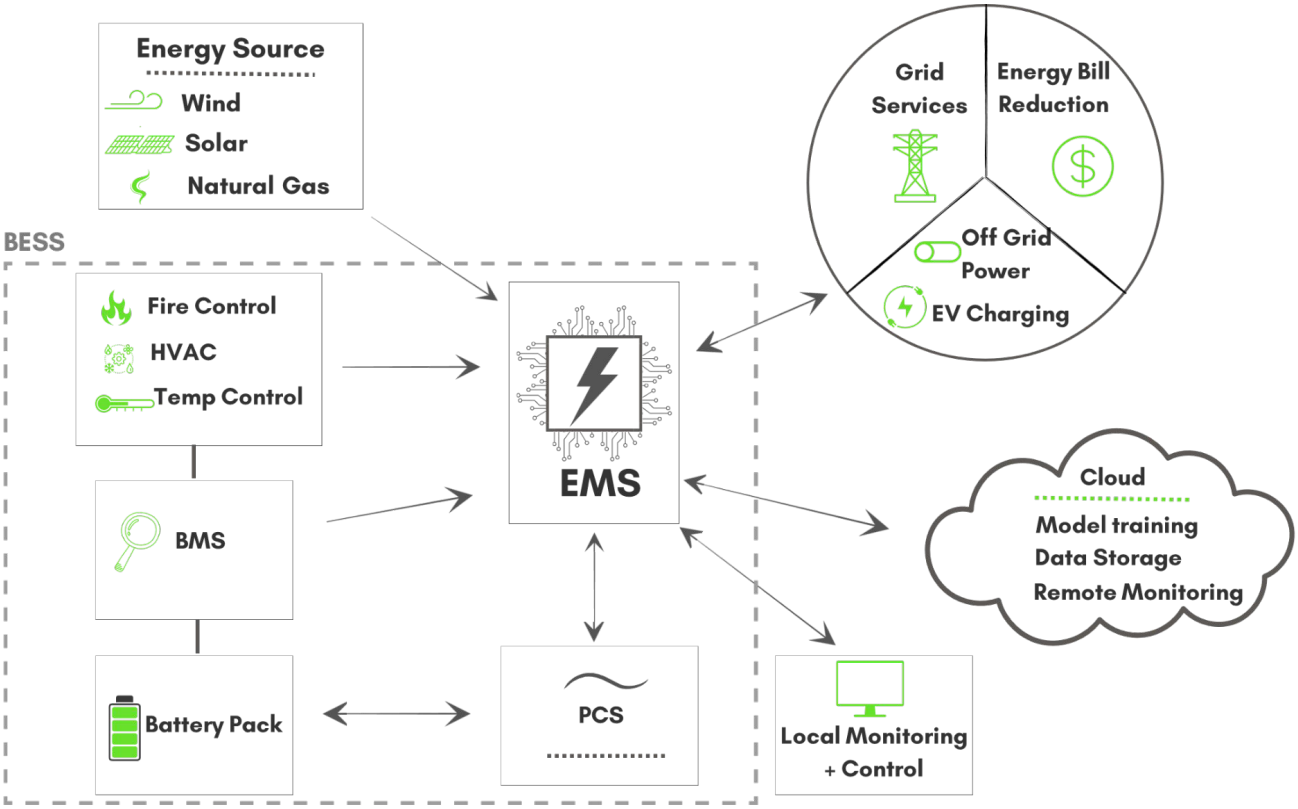
WATTMORE's Intellect Operate - EMS & SCADA

Key Features	
Real-Time Monitoring	**Automated Controls**
Track energy production, load, and battery health across all sites from a single, intuitive dashboard.	Implement Intelligent control strategies tailored to your tariff, usage profile, or market opportunity.
Advanced Battery Management	**Grid Interactive Capabilities**
Optimize Battery storage assets with real-time charge/discharge control, predictive analytics, and lifecycle monitoring to maximize energy savings and longevity.	Seamlessly integrate with utility grid allowing for peak shaving, load shifting and demand response participation.
Intelligent Forecasting	**Alerts & Notifications**
Predict energy demand, generation, and storage utilization using AI-driven analytics.	Stay ahead of potential issues with real-time alerts and performance insights
Data-Driven Insights	**Intelligent Reporting**
Generate detailed reports and visualizations to support asset management and decision-making.	Analytics are important, access to data is important. WATTMORE's historian approach is uncompromised with built in reporting and alerting along with self generated reporting alerting.

EMS - How It Works Overview



Forecast

Every 15 minutes, EMS produces 24-hr forecasts for energy usage, generation and price.

Optimize

Forecasts, real-time data, and economic variables are inputs to an objective function maximizing savings and revenue.

Control

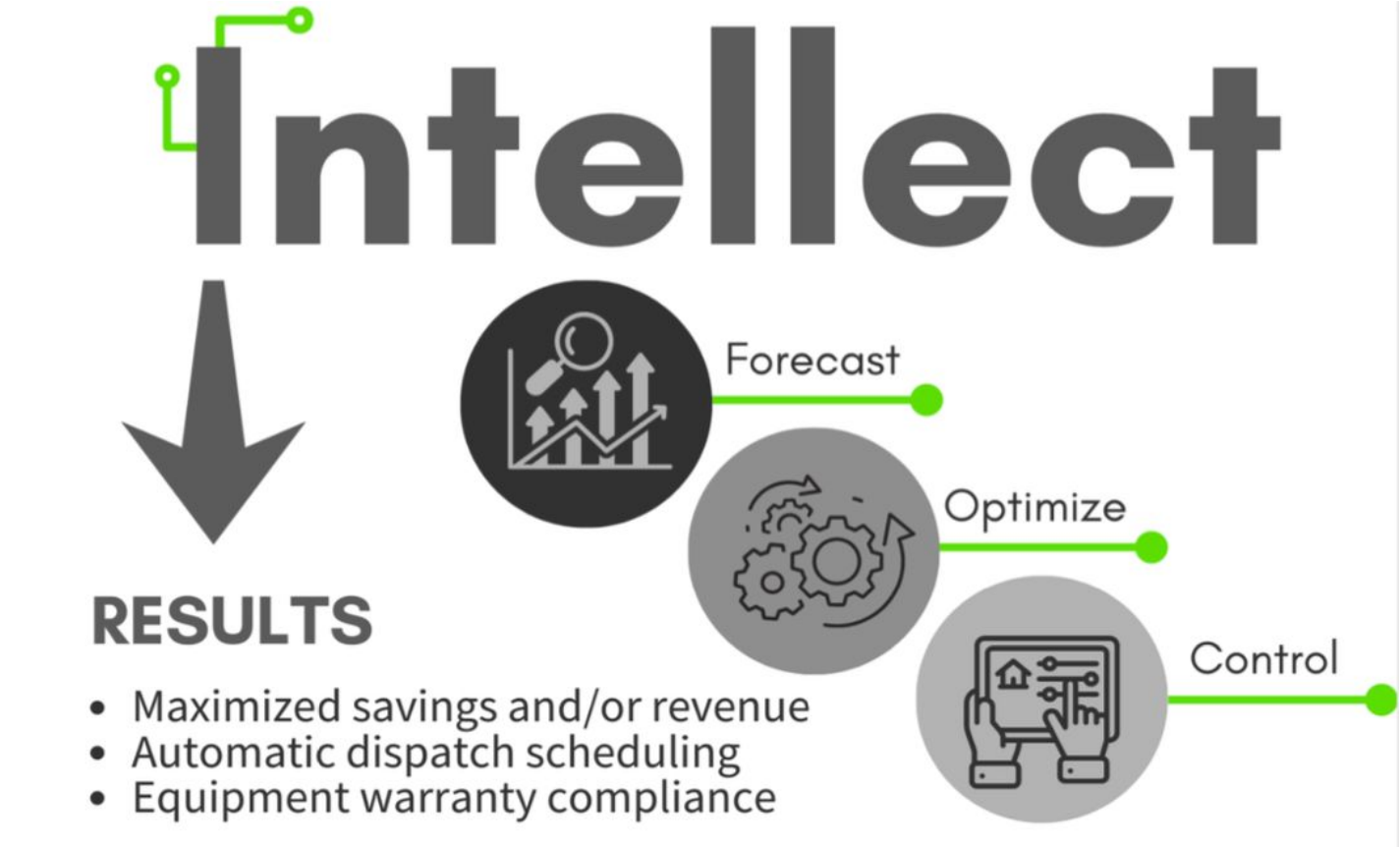
The output of the optimization is a dispatch schedule for the control system to follow.

Results:

✓Automatic/Manual Power Control

✓Secure Command System

✓Maximized Savings and/or Revenue



Battery Management for Solar & Power Plants
Seamless Solar + Battery Integration
WATTMORE Operate enables real-time control over battery storage systems, ensuring optimal energy utilization. Whether co-located with solar farms or part of standalone battery energy storage systems (BESS), our EMS ensures maximum return on investment.
Optimized Battery Charging & Discharging
Operate dynamically adjusts battery usage based on grid conditions, solar production, and load demand. This helps in energy arbitrage, peak shaving, and ensuring continuous power availability.
Lifecycle & Health Management
Monitor battery performance, predict degradation, and extend the useful life of battery assets with intelligent thermal and charge cycle management.
Grid Services & Market Participation
Leverage battery storage for frequency regulation, demand response, and energy trading, unlocking new revenue streams while maintaining grid stability.

Hardware

Agnostic Approach

The WATTMORE Operate EMS is built to offer the utmost flexibility pertaining to third party integrations. WATTMORE has extensive experience working with hundreds of hardware manufacturers. Weather station equipment, backup generators, battery management systems, solar inverters, battery inverters (PCS), meters, relay's switchgear etc. You name it, we have worked with it.

Communication Protocol Flexibility

There are many standards and protocol types in existence. WATTMORE's EMS communications library and equipment comes ready with DNP3, Modbus (RTU and TCP), BACnet, IEC 61850, MQTT, and CAN Bus. We are ready to connect, control, manage and report.

Hardware Integrations

WATTMORE commonly works with the best manufacturers in the industry. We are no strangers to working with SEL, Schneider Electric, Siemens, ABB, Eaton, Dynapower, EPC Power, LG, Power Electronics, Gotion, EOS, TROES, and Samsung. Let us know your requirements and who your approved vendors are and we will do the rest.

Physical and Cyber Security

WATTMORE does not compromise when it comes to the security of our customers and their assets. All software is secured with 2FA or multi factor authentication, employees are trained and go through extensive awareness training, and hardware comes with intrusion alarm and notifications. For our high secure clients and sites we can implement biometric access control such as facial recognition.