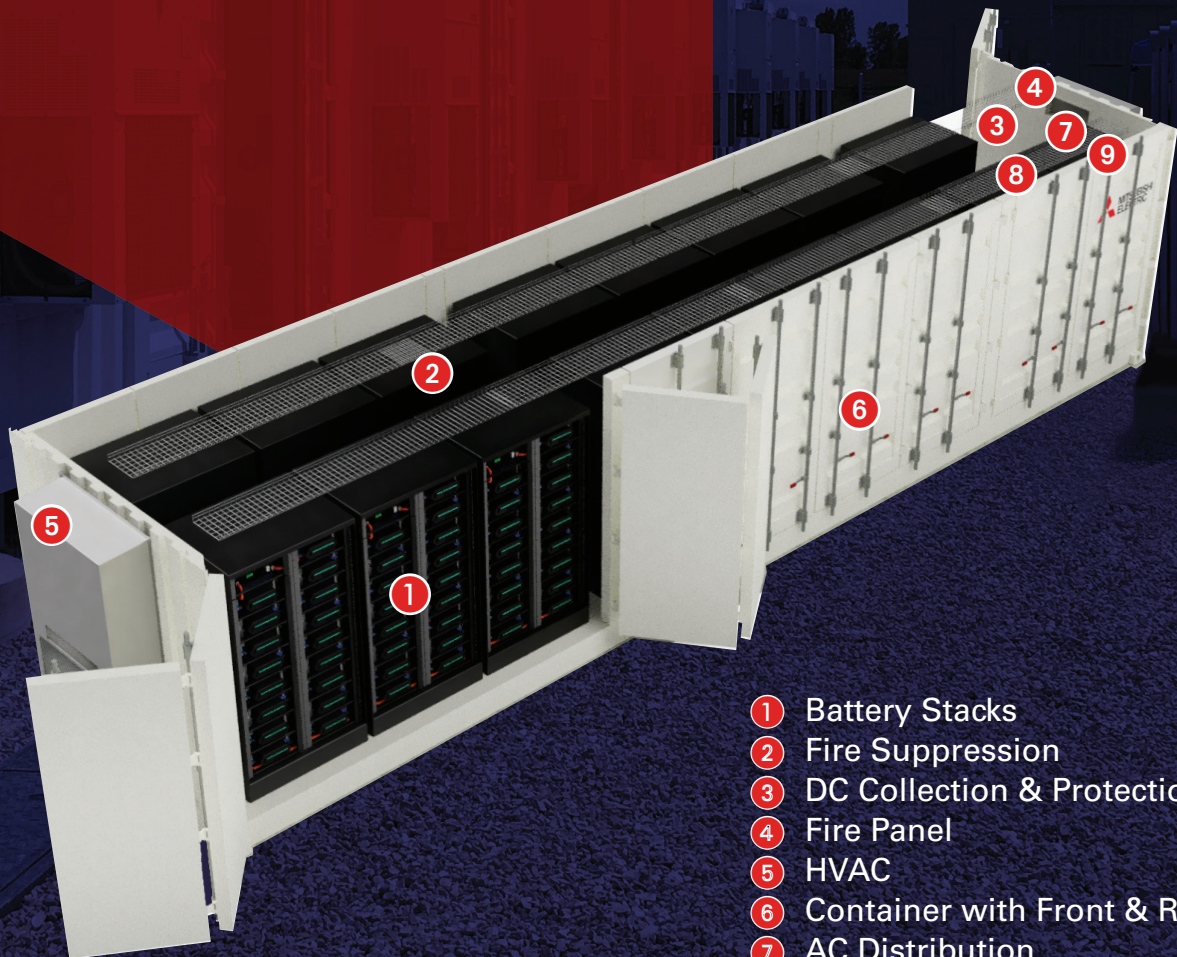


# BATTERY ENERGY STORAGE SYSTEMS

MODULAR, SCALABLE ENERGY STORAGE SYSTEMS



- ① Battery Stacks
- ② Fire Suppression
- ③ DC Collection & Protection
- ④ Fire Panel
- ⑤ HVAC
- ⑥ Container with Front & Rear Access
- ⑦ AC Distribution
- ⑧ UPS
- ⑨ HVAC Controls

**Mitsubishi Electric's battery energy storage system** is a scalable, purpose-built battery solution that includes all of the balance of system (BOS) equipment that can be modified to meet the customers' requirements. In addition to the battery

system, MEPPI provides an integrated system design including bi-directional inverters, medium voltage transformers, and an energy management system. The system has been designed to scale from 1MW to 100+MW at durations of 1-4 hours.

## BESS SPECIFICATIONS

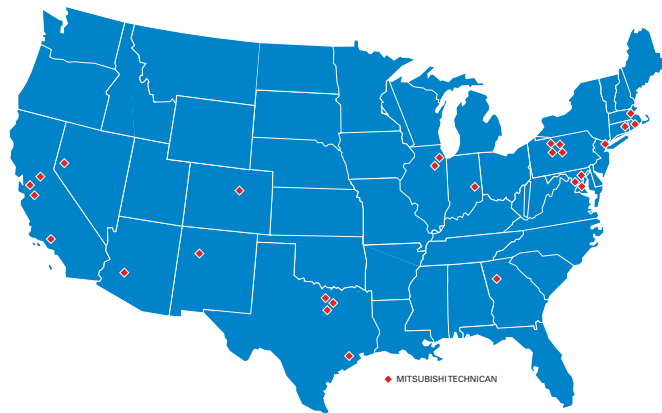
MODEL	ME-2240	ME-3150
Battery Chemistry	Lithium Iron Phosphate (LFP)	Lithium Iron Phosphate (LFP)
Control	MEPPI EMS	MEPPI EMS
Usable Energy Capacity (kWh)	2,240	3,150
Rated Power (kW)	2,240	2,800
Depth of Discharge (%)	100	100
DC Round Trip Efficiency [2 hr rating] (%)	95	95
Performance Guarantee	80% SOH after 3,650 cycles or after 10 years	80% SOH after 3,650 cycles or 70% SOH after 15 years
Ambient Temperature Range	-30 to +50°C	-30 to +50°C
Fire Suppression	StatX (aerosol)	StatX (aerosol)
Cooling	Forced air & HVAC	Forced air & HVAC
Codes & Standards Compliance	UL 1642, UL 1973, IEC 62619	UL 1642, UL 1973, IEC 62619
* Lower currents available ** Does not include setbacks, PCS, or BOP		

# USE CASE APPLICATIONS

**MEPPI considers the individual** use case and value stacking for each project in its product and system design. The energy storage system is capable of supporting a wide range of applications:

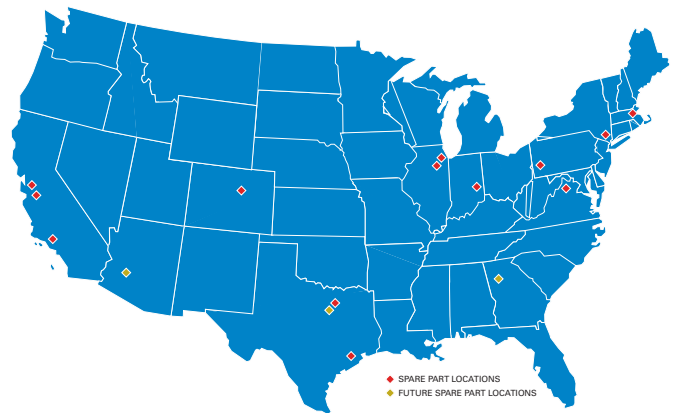
- ◆ Frequency Regulation
- ◆ Energy Arbitrage
- ◆ Renewable Integration
- ◆ Spinning Reserve
- ◆ Demand Charge Reduction
- ◆ Transmission or Distribution Deferral
- ◆ Voltage Support
- ◆ Resource Adequacy
- ◆ Backup Power
- ◆ Congestion Relief

## SERVICE & SUPPORT



### TECHNICIAN NETWORK

- ◆ Based on UPS network
- ◆ Access to experts
- ◆ MEPPI & 3<sup>rd</sup> party



### PART STOCK / DISTRIBUTION

- ◆ Spare parts availability
- ◆ Central location



### SERVICE & SUPPORT

- ◆ Technical support line
- ◆ Access to experts



### COMPREHENSIVE TRAINING

- ◆ Investment in technician training
- ◆ Focus on start-up, maintenance & repair



# WHY MITSUBISHI?



## **BANKABILITY**

Strong parent company  
Brand recognition  
Strong financials



## **TECHNOLOGY**

Robust & reliable equipment  
High quality supply chain  
Solid system & application design



## **UTILITY EXPERIENCE**

Over 40+ years in utility space  
GW experience in solar and storage  
Applied lessons learned to design



## **SERVICE**

Regionalized service technicians  
Quick response via service network  
Central spare parts hub



## **INTEGRATION**

Container or building solutions  
EMS/BMS testing in USA  
Pretesting before site integration



## **POWER SYSTEM STUDIES**

In-house group used by large utilities  
30+ system studies engineers  
Wide-variety of study experience

## **mitsubishi electric power products, inc.**

### **Corporate Headquarters**

Thorn Hill Industrial Park  
530 Keystone Drive  
Warrendale, PA 15086

Web: [www.meppi.com](http://www.meppi.com)

Phone: (+1) (866) 390-6487

Fax: (+1) (724) 778-5209

Email: [renewables@meppi.com](mailto:renewables@meppi.com)