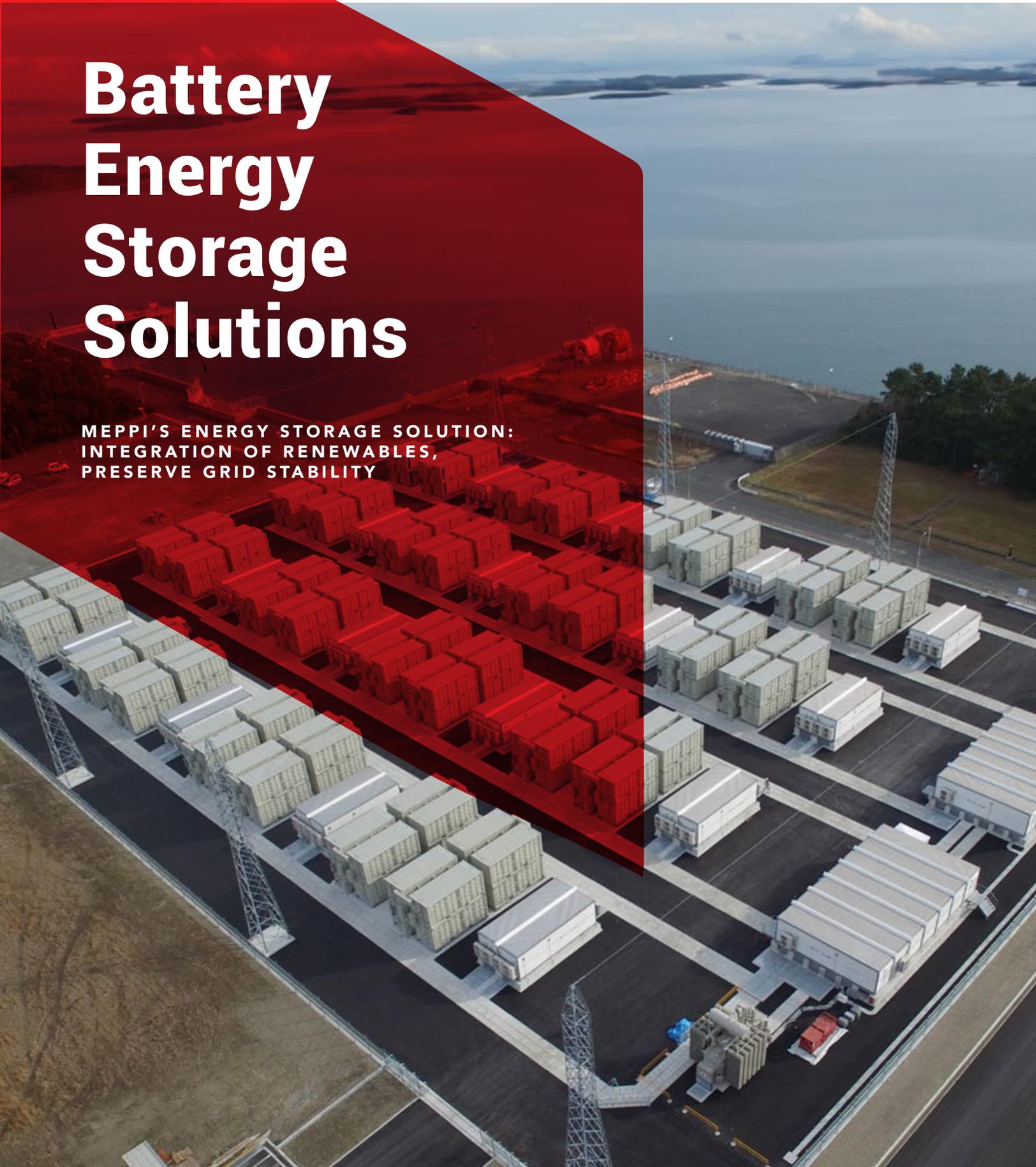


# Battery Energy Storage Solutions

**MEPPI'S ENERGY STORAGE SOLUTION:  
INTEGRATION OF RENEWABLES,  
PRESERVE GRID STABILITY**



# GAIN THE ADVANTAGES OF MEPPI's MODULAR SOLUTION

**You want to keep your grid up and running. So do we.**

*Mitsubishi Electric Power Products, Inc. (MEPPI) is a respected leader in the energy industry. We use our expertise to develop renewable energy solutions that focus on high quality and maximum dependability. MEPPI has delivered /contracted more than 100 MWh+ of BESS projects across North America. Plus, a commitment to service that keeps systems at peak efficiency.*

## HIGH QUALITY LEADS TO EXCEPTIONAL RESULTS

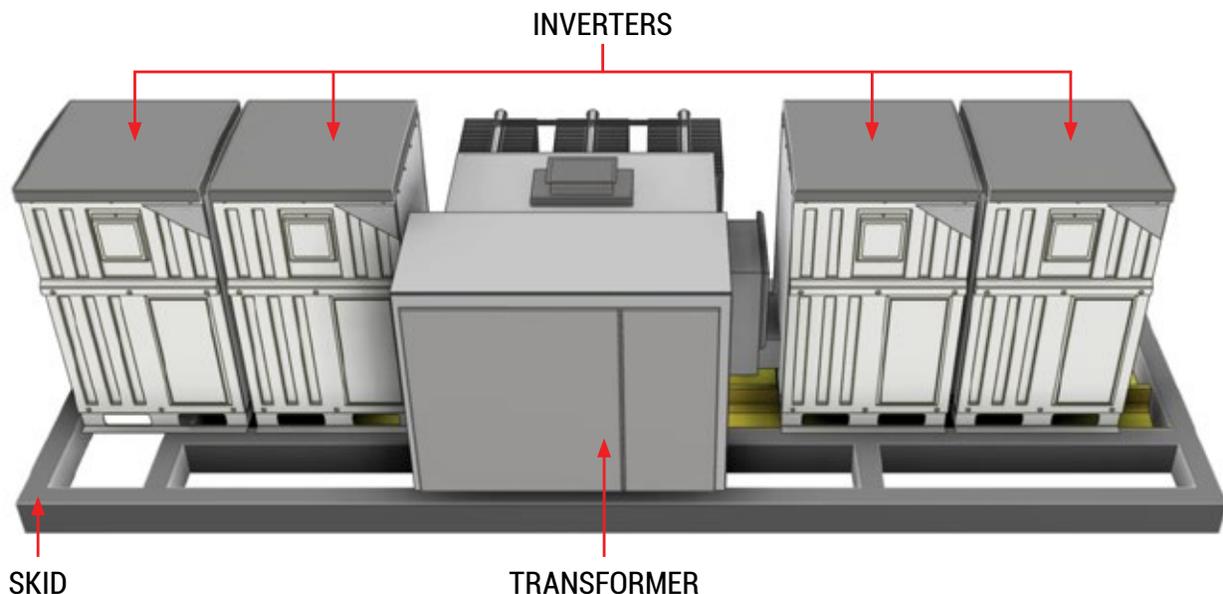
MEPPI's Power Conversion System (PCS) BESS Skids are designed to streamline your operations, enabling smooth and efficient commercial operation from day one. With 40 years of experience, MEPPI is ready to:

- ◆ Provide ISO 9001 certified substation turnkey services.
- ◆ Work closely with management and engineering teams to assure all phases of the project stay in sync.
- ◆ Meet your design deadlines and delivery dates - allowing you to fulfill your commitments.

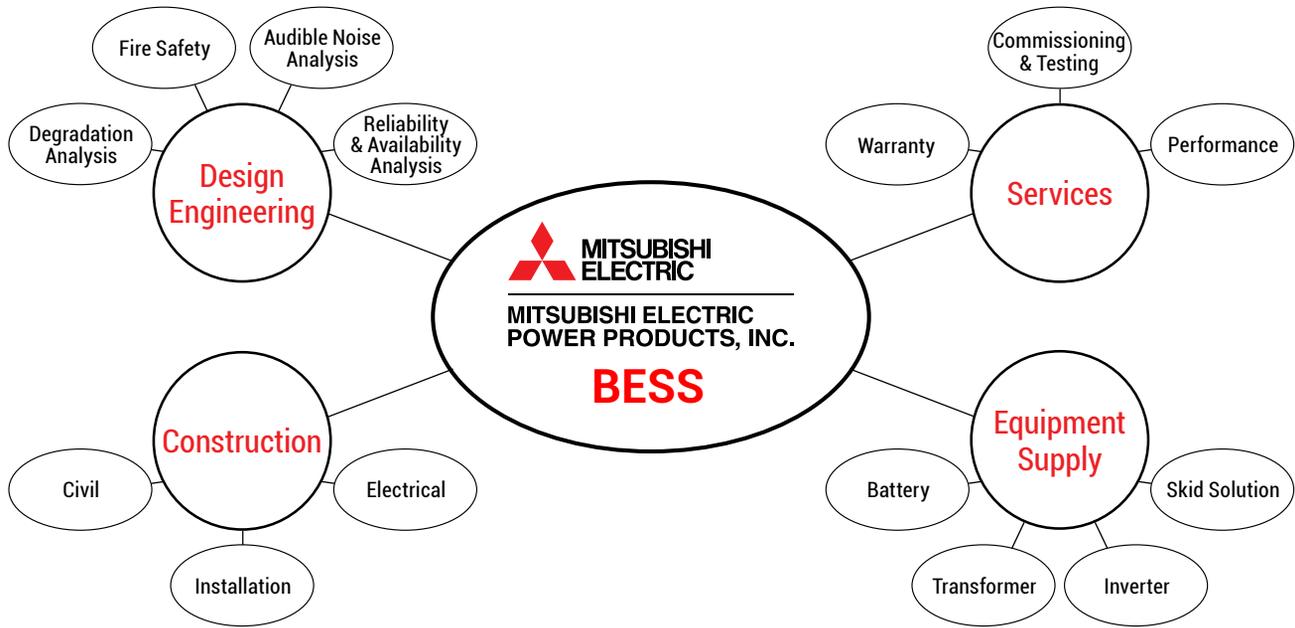
## POWERFUL, ALL-IN-ONE SYSTEM

The Inverter, Transformer, and Skid Controller are all on one Power Conversion System Skid to make installation hassle-free. This system:

- ◆ Arrives at your job site fully assembled and ready to go
- ◆ Works with pile-type foundations, making design and set-up simpler
- ◆ Seamlessly integrates with your on-site trackers, fiber, auxiliary power, and controllers
- ◆ Connects to any standard communication protocol
- ◆ Is a UL or IEC certified global design
- ◆ Offers standalone storage or AC-coupled storage options



# BESS TURNKEY SOLUTIONS



## THE SOLUTION

BESS plays a critical role in facilitating the integration of renewable energy sources into the grid. Excess energy generated during high periods of output can be stored via Lithium Iron Phosphate (LFP) batteries. The BESS then ensures a stable and reliable supply of electricity during periods of low output. This helps to balance the grid and reduce the need for expensive and polluting peaking power plants. In addition, BESS can provide backup power in the event of a power outage, improving the resiliency of the electrical grid.

### Applications:

- ◆ Stationary Energy Storage
- ◆ Renewable Integration
- ◆ Microgrid Support
- ◆ Grid Stabilization
- ◆ Peak Shaving

### LFP (Lithium Iron Phosphate)

- ◆ Excellent Safety
- ◆ Excellent Cycle Life
- ◆ Excellent Power
- ◆ Cost-Effective Option
- ◆ Moderate Energy
- ◆ High Energy Density
- ◆ Low Self-Discharge
- ◆ High Efficiency



## AN ONGOING PARTNERSHIP

MEPPI is committed to the success of your project.

### On time, every time

We'll work with your team to select from a range of high-quality components to meet your design requirements and all delivery and installation deadlines.

### Comprehensive training programs

We make sure your team has the necessary skills to operate the skids effectively.

### Rigorous testing and commissioning

We ensure the skids operate at peak performance and maximum efficiency.

### Full-warranty wrap and long-term service and support

After installation, our dedicated support team will provide ongoing monitoring, warranty coverage, and exceptional after-sales service and support.



INVERTER SPECS		
Manufacturer/Model	TMEiC PVU-L0840GR	EPC Power CAB100050-100181
Module Capacity (kW)	840 @ 25°C	1500 kW @ 40°C
Output Vac Range	630 +10% / -12%	690 +10% / -12%
Rated Power (kW)	840	1500
Min Vdc	915	976
Max Vdc	1300	1500
Ambient Temperature Range	-25°C ~ 50°C	-20°C ~ 55°C

### MEPPI BESS Offering

- ◆ Inverters convert DC power from the battery into AC power that can be used by electrical devices
- ◆ Transformers ramp up voltage for POI

### Options

- ◆ Skids offered with either TMEiC or EPC Inverters
- ◆ Up to (5) EPC inverters per skid and up to (6) TMEiC inverters per skid
- ◆ Arctic rated option available for EPC inverters
- ◆ Transformer ratings to match customer needs
- ◆ Oil containment available upon request



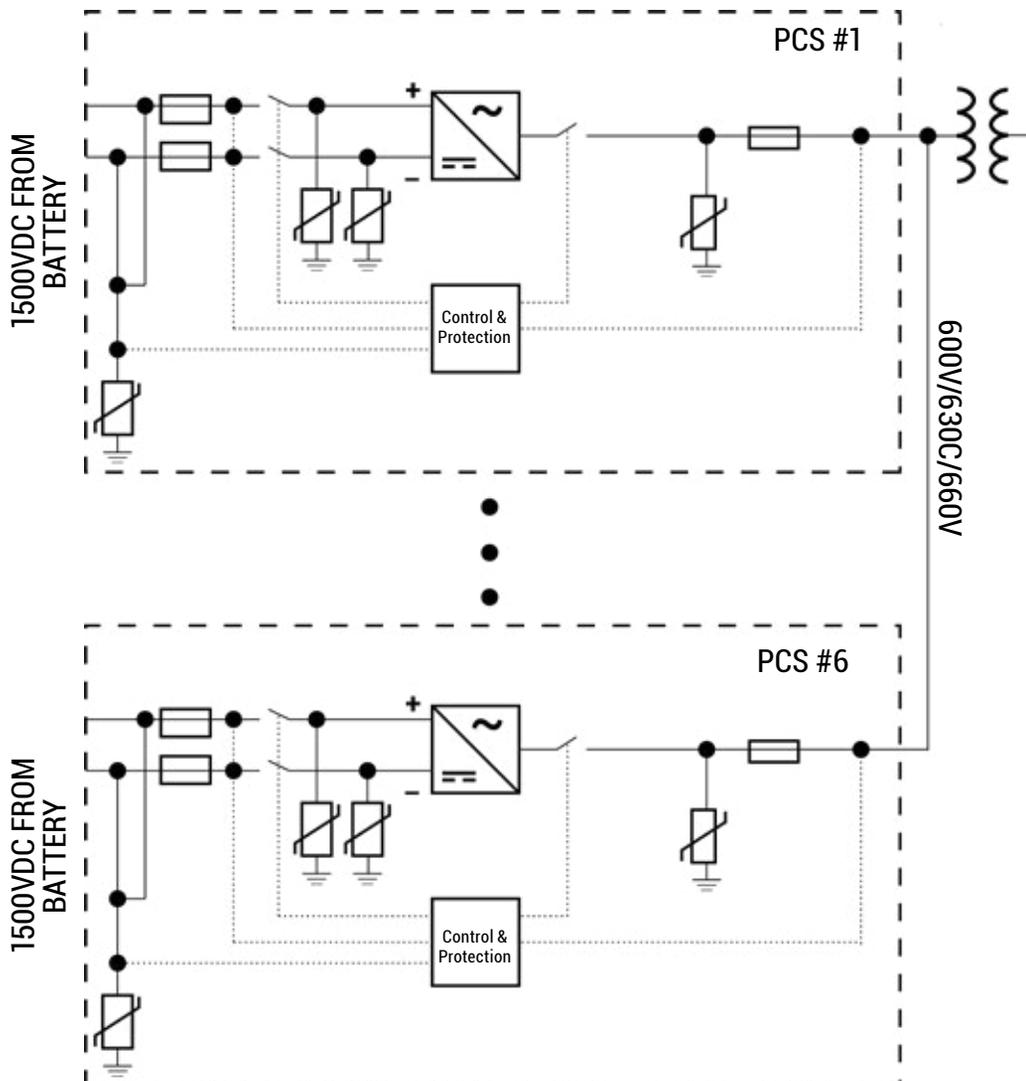
**MEPPI BESS PCS SKIDS OFFER COMPREHENSIVE ON SITE COMMUNICATION AND SEAMLESS INTEGRATION TO INCREASE YOUR PRODUCTIVITY**

## BATTERY STORAGE HARDWARE INCLUDES:



- ◆ Standard Enclosure
- ◆ Battery
- ◆ Battery Management System Cabinet
- ◆ HVAC
- ◆ Off-Gassing Valve
- ◆ Fire Suppression System
- ◆ Distribution Management Cabinet
- ◆ DC Junction Box
- ◆ Wiring System

## ELECTRICAL DIAGRAM



# PRESERVE GRID STABILITY

MEPPI PROVIDES A WIDE RANGE OF SOLUTIONS FROM EQUIPMENT SUPPLY TO FULL TURNKEY OFFERINGS



**We're ready to work with you to create a custom configuration that fits your exact needs.**

Visit [meppi.com/BESS](http://meppi.com/BESS) or scan the QR code below



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*Mitsubishi Electric Power Products, Inc. serves the North American power systems, rail transportation, and large visual display markets with electrical and electronic products, systems and services. The products offered include gas circuit breakers, vacuum circuit breakers, power transformers, gas-insulated substations, power electronics and electricity transmission technologies including high voltage DC, battery energy storage systems, generator services, nuclear power plant control systems, uninterruptible power supplies, rail transportation equipment, and high-definition LED displays for sports, commercial and retail installations. For more information and to learn more, visit [www.MEPPI.com](http://www.MEPPI.com).*



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