

The Preferred Partners

M&I Electric Far East was incorporated in 1995. We are a switchgear and panel manufacturer, and system integrator of electrical power delivery products & energy management solutions. We supply high quality and cost effective custom-design Switchboards, MCCs, VFDs, Inverters, BusDuct, Integrated Power Controls, Online Condition Monitoring Products, and Power Energy Management System. Combined with our service capabilities, we can provide a turnkey solution.

Our customers include oil & gas companies, onshore and offshore production operators, as well as petrochemical, chemical, marine, water and waste water, power generation and other industries.



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M&I Electric Far East Pte Ltd
Enabling Safe Power Intergration

Total solution provider
of reliable and quality
Power Distribution
control products and
electrical services



The Preferred Partner of Electrical Power Delivery Solution

OUR PRODUCTS

Low Voltage Switchgear, PMCC, VFD

Low Voltage Switchgear & MCC are available up to 690VAC, 6300A/7000A
Short Circuit Test up to I_{cw} 120kA 1s, I_{pk} 264kA, IEC 61439-1/2, EN/IEC 60439-1
Type Tested to 600VAC, 5000A, 100kA rms UL 67, UL 508A, UL 845 & UL 891

Medium Voltage Switchgear, MCC, VFD

MV Switchgear ANSI/NEMA C37.20.2 up to 38kV, 2500A, 40kA, IEC 62271 Standard
up to 24kV, 2500A, 20/25kA 3s, 50/60Hz

Switchgear/MCC Features

- ◆ Arc Resistance, Arc Mitigation
- ◆ IEC61850 Protection IEDs
- ◆ PLC, IEDs with Profibus, Modbus or Devicenet Communication Interface
- ◆ Automatic Generators Parallel Control & Power Management System
- ◆ Designed to ABS, DNV or GL requirements

AC & DC Drives

- ◆ For Land & Offshore Drilling
- ◆ Digital & Analog DC Drives
- ◆ DC drives with 4 quadrant SCR bridges option up to 750VDC 3200HP
- ◆ Modular AC Drives (VFD) up to 690VAC 2000HP, Liquid Cooled through 4000HP
- ◆ M & I eDrives 6, 12, 18 & 24 pulse or AFE
- ◆ Harmonics Filters IEEE 519, IEC 61800
- ◆ Dynamic or regenerative braking
- ◆ Designed to IEEE, ABS, SOLA or DNV requirements
- ◆ Modbus, Profibus, Devicenet, Ethernet Communication Interface

Power Control Building

Factory assembled, fully integrated and tested with HVAC, Pressurization, Fire Protection Systems

AETI Solar Inverters

- ◆ Modular 1MW IGBT Inverters
- ◆ Grid Tie at 410 – 480VAC, or step up to MV
- ◆ Max PV input 1100VDC, MPPT & Anti-Islanding features, IEEE 1547, IEC 61727

AETI Wind Power Converters

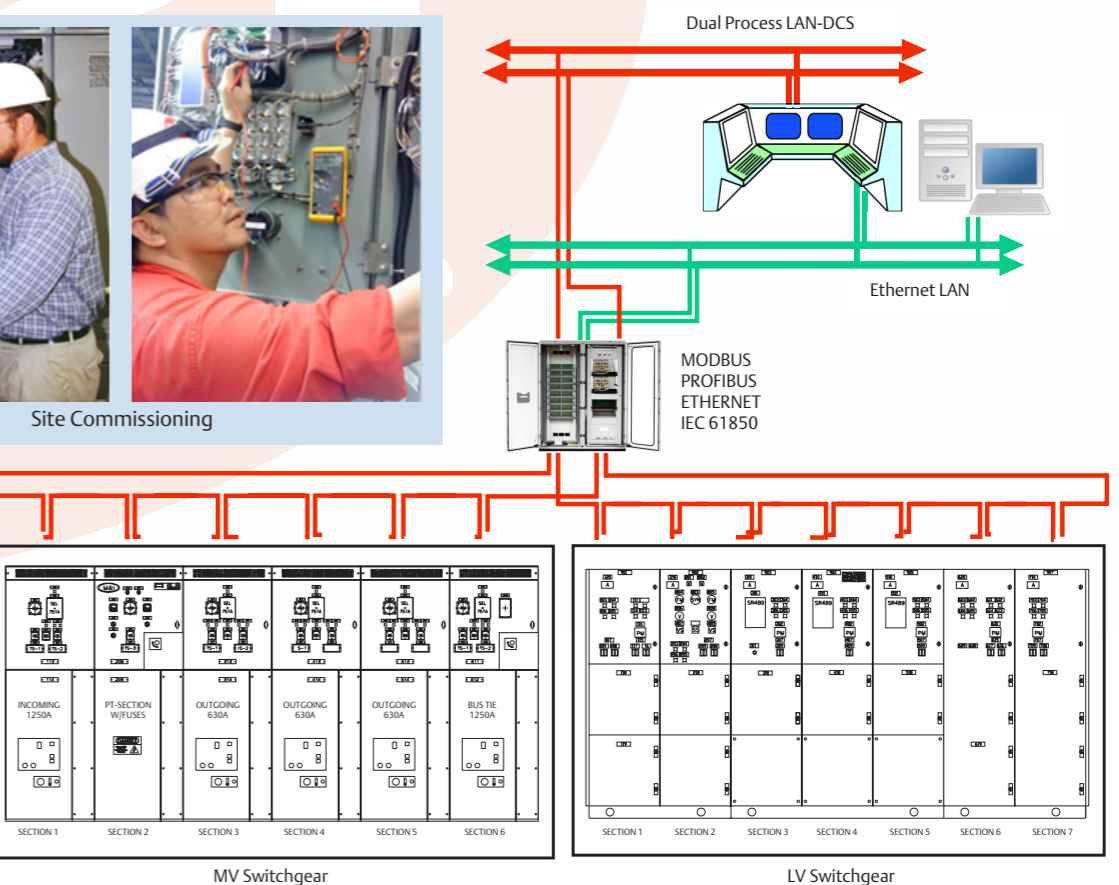
- ◆ Full Power (Direct Drive) or Double Fed Design
- ◆ Air or Liquid Cooled IGBT Inverters
- ◆ Modular 750kW, 1MW, 1.5MW, 2MW, can be parallel
- ◆ Anti-Islanding, Low Voltage Ride Through features
- ◆ 600VAC/690VAC, 3 phase, 50 or 60 Hz

OUR SERVICES

M&I Engineering & Technical Services is based on our extensive manufacturing and construction experience coupled with our attention to industrial developments & future trends. Over the years, we have successfully served our clients from various industries, such as Marine, Oil, Gas & Petrochemical and Power Plants.

Our Capabilities:

- ◆ Integrated Power Distribution System
- ◆ Engineering Solution
- ◆ Short Circuit Analysis
- ◆ Load Flow Analysis
- ◆ Transient Stability Analysis
- ◆ Protection Devices Coordination Study
- ◆ Harmonic Analysis
- ◆ Power Energy Management Solution
- ◆ Online Condition Monitoring
- ◆ Infrared Thermography
- ◆ Protective Relay Test & Calibration
- ◆ Primary & Secondary Current Injection
- ◆ High Potential Insulation Test
- ◆ Meter & Transducer Test Calibration
- ◆ Contact Resistance Measurement
- ◆ Insulation Power Factor Test
- ◆ Transformer Turn Ratio Test
- ◆ Troubleshooting & Maintenance
- ◆ Commissioning & Startup
- ◆ Switchgear/MCC Modification & Upgrade
- ◆ Power Breaker Upgrade, AFIE Reduction NFPA-70E Compliance



Low Voltage Switchgear



Medium Voltage Switchgear



PLC Control Panel



AC Drives



Powerhouse