

Incorporating New Energy Infrastructure for Global Sustainable Energy and Green Energy Transitions

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WWW.TMEIC.COM

Introduction



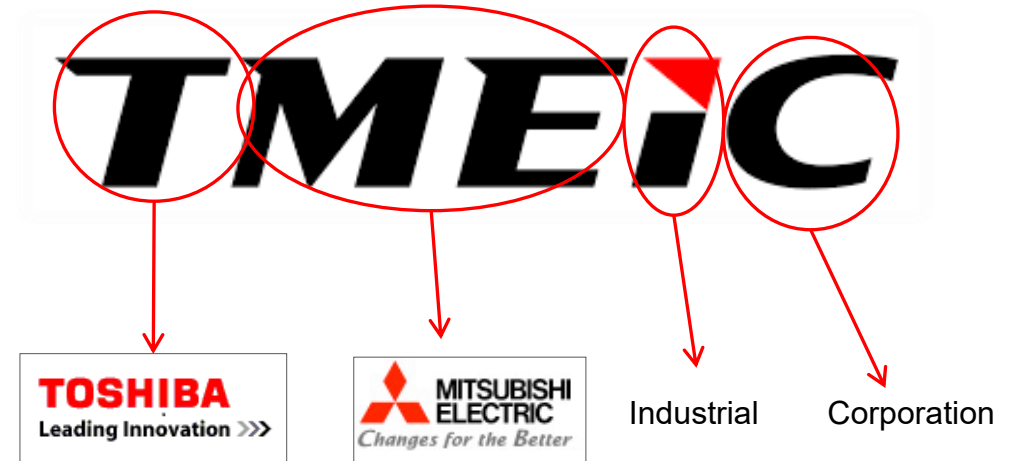
Suraj Mishra
Business Development Manager
TMEIC Industrial Systems

Experience:

2009 – 2012	Procurement Manager <i>Godrej & Boyce Mfg Co Ltd</i>
2012 – 2025	Head of Equipment & Automation Procurement <i>APM Terminals</i>
Since April 2025	Business Development Manager, Industrial Systems <i>TMEIC</i>

Education:

Mechanical Engineering – University of Pune
Executive MBA – NMIMS, Mumbai



TMEIC is a global drive and automation systems supplier with manufacturing, engineering, sales, and service facilities around the World.

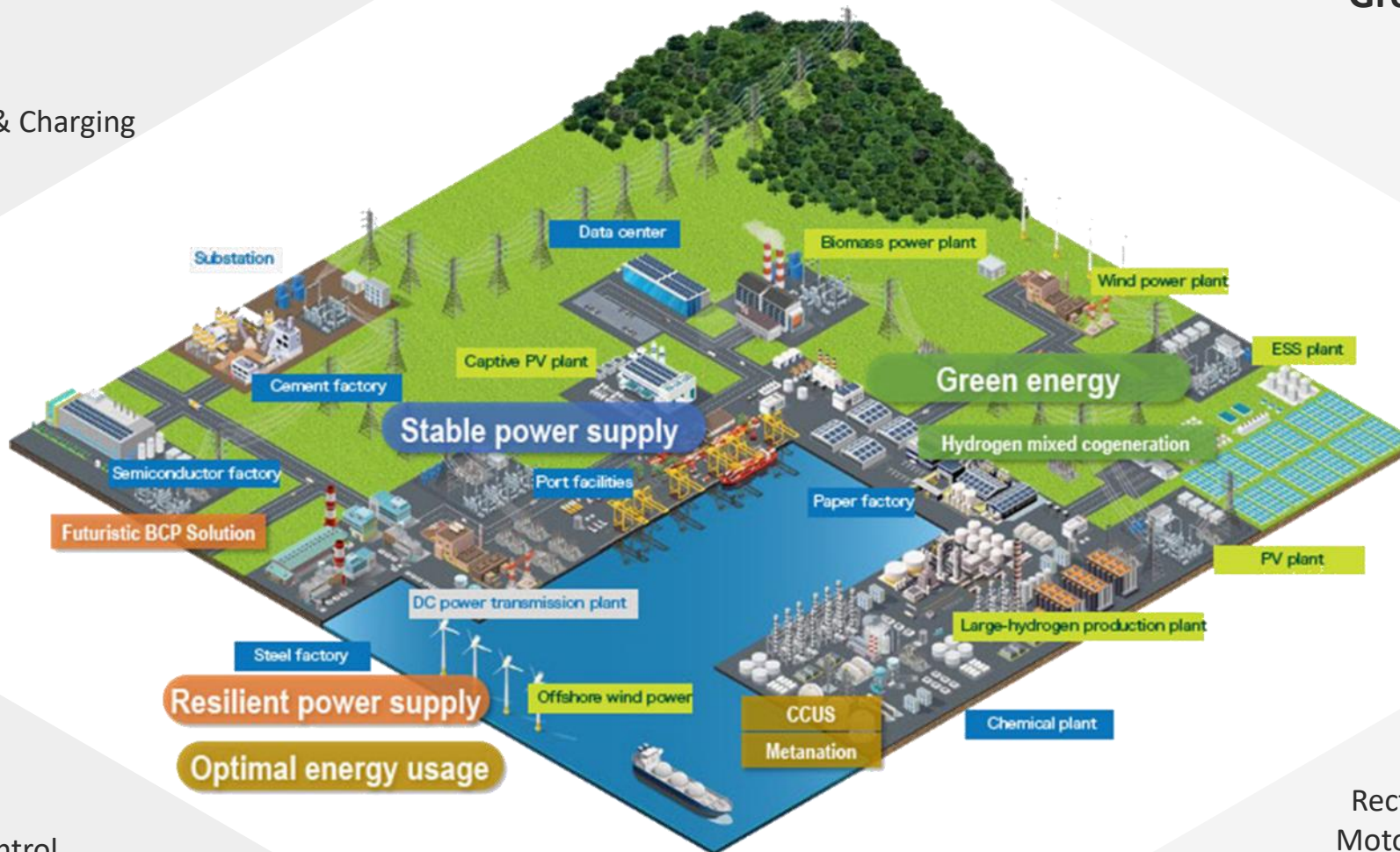
TMEiC is enabling Green Transition across industries

Ports & Terminals

On-Shore Power Supply
Equipment Electrification & Charging
Smart and Micro Grids
Energy Storage Solutions

Green Energy Production

Inverters for Grid-Scale Solar
Energy Storage Systems



Power Quality & Grid Support

Peak Shaving
Energy Management & Control

Hydrogen Solutions

Rectifier Systems for Electrolysis
Motors & Drives for Compression
and Liquefaction

TMEIC in Renewable Energy & Port Industry

Renewable Energy



45+

GW Worldwide

30+

GW in North
America

330+

Installations in
North America

*Photovoltaic Inverters / Energy Storage Systems
/ Energy Management & Controls*

Container Ports & Terminals



68+

Ports

625+

ASCs

410+

Quay Cranes

20+

Cantilevered Gantry
Cranes

40+

Rail-Mounted
Gantry Cranes

TMEiC supports customer around the Globe



16 Offices

9 Factories



Total 25 locations



4,255+ Employees

300+ Service Engineers



Manufacturing and ESS Test Facility – Bangalore, India

- TMEIC's India factory – Manufacture PV inverters and ESS inverters
- This facility has its own “microgrid” with factory load, PV, ESS, & energy management

TMEIC Factory

Solar PV for energy savings

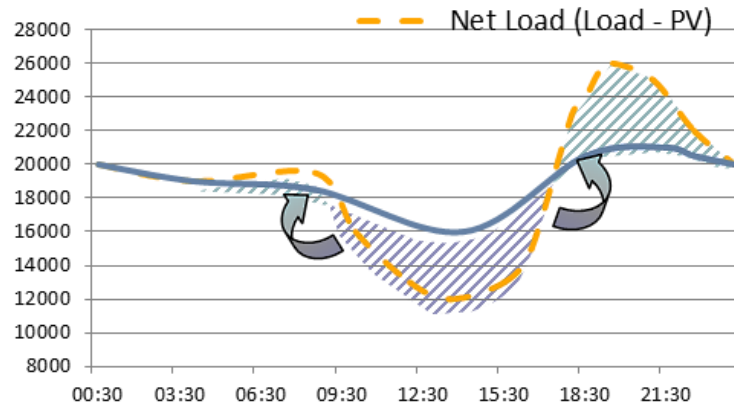


ESS Lab station



Bangalore Factory Microgrid Conclusions

Increase of solar will create the unbalance of needs and demand when sunsets.

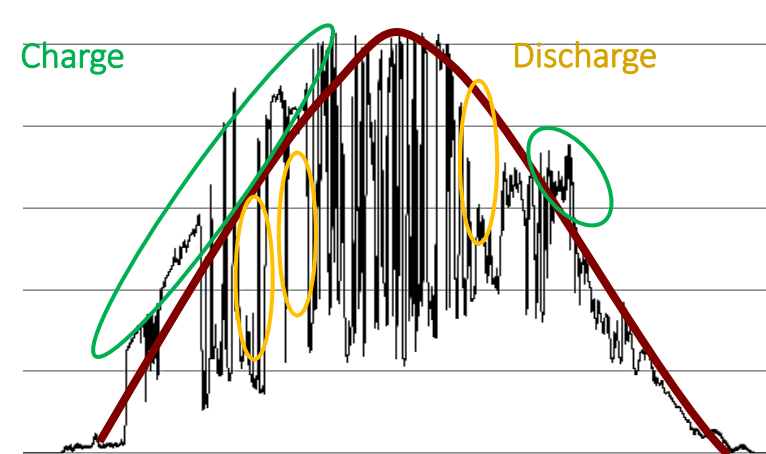


ESS Solution example for Duck curve

Renewable Energy

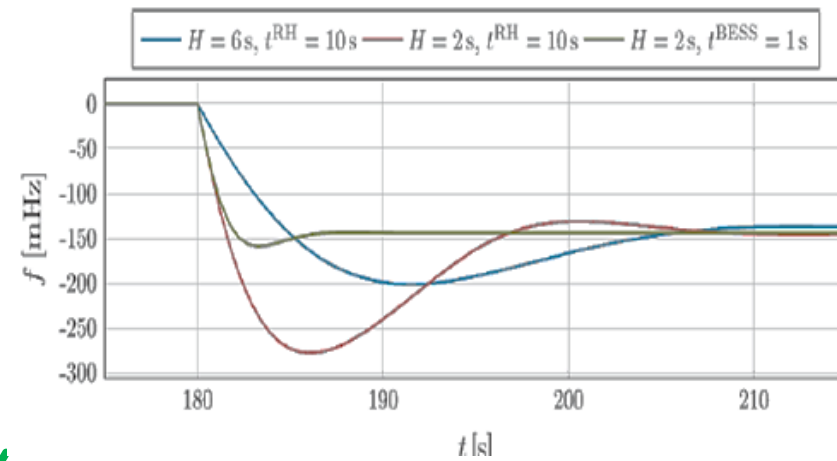
Charge

Discharge



Instability of renewable energy supply can be compensated by the battery

Grid Stability

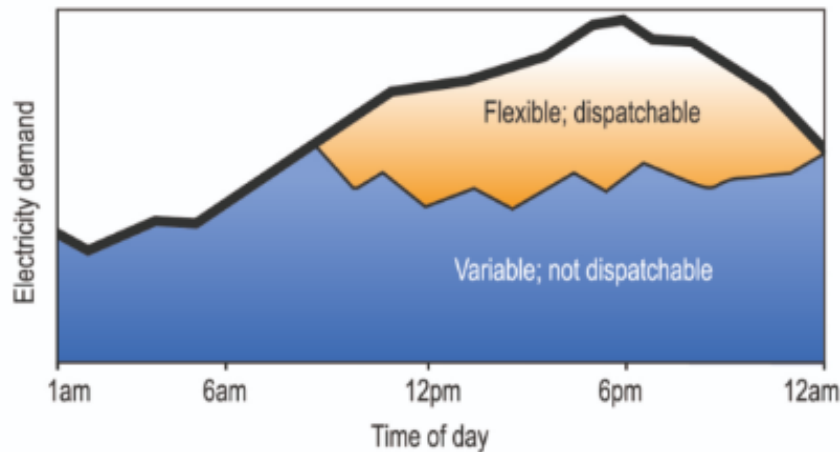


Increase in Renewable energy reduces the grid inertia. ESS balances the frequency fluctuation.

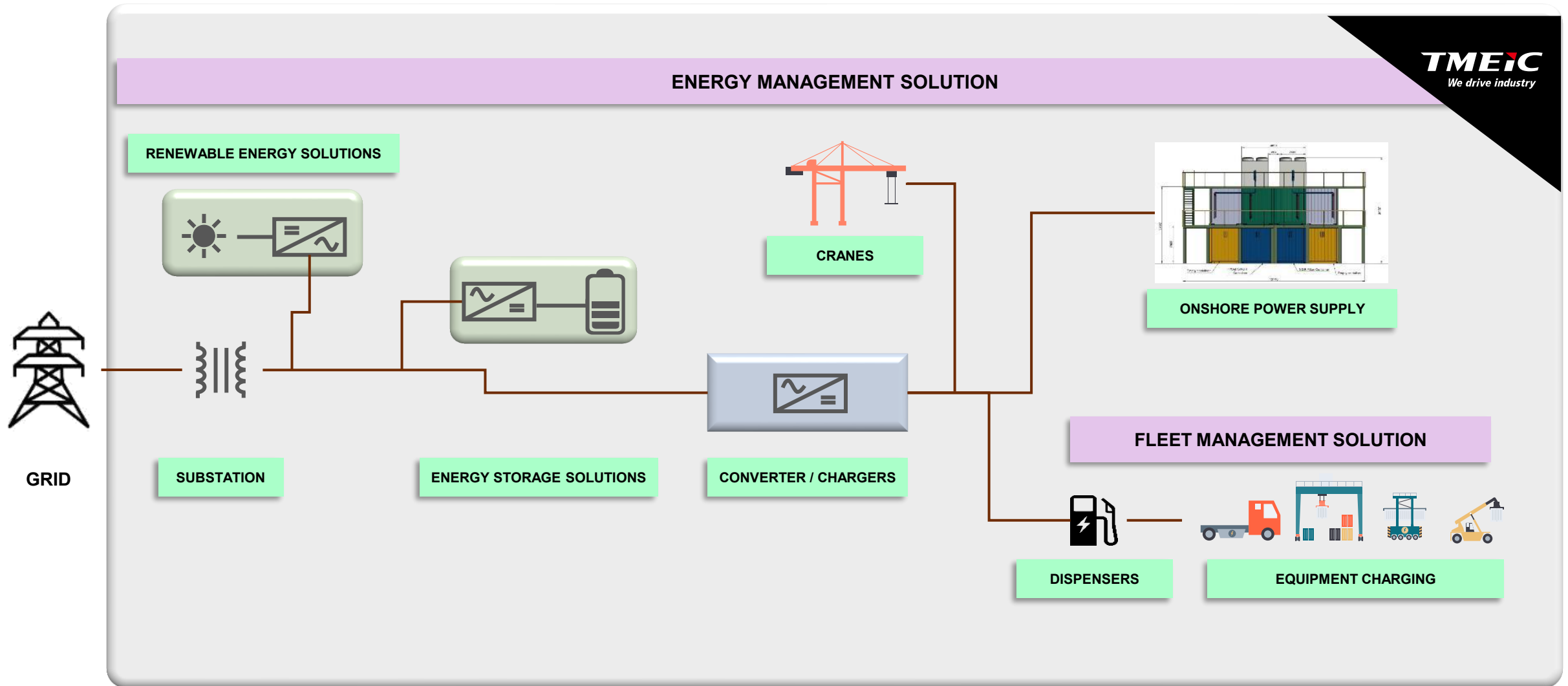
Grid

Balancing

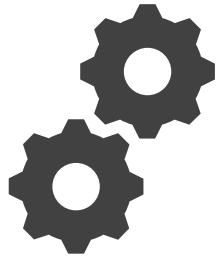
Flexibility in peak demand management.



TMEiC's Electric Products for Port Industry



Navigating the Green Transition: What It Means for Ports



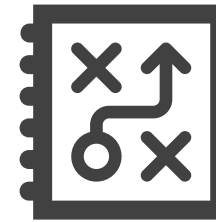
Technical &
Infrastructure



Financial &
Economic Factors



Regulatory &
Compliance



Operational
Planning



Sustainability &
Future Proofing

Navigating the Green Shift with TMEIC by Your Side



Grid & Infrastructure
Assessment



Modular & Compliant
Solutions



Performance & TCO led
Partnership Models



Co-present solutions to
Port Authorities &
Shipping Lines



Training & Capability
Building



Jointly quantify
emissions reductions
and support ESG
reporting

Thank you