



SMART ENERGY MONITORING SYSTEM



REAL-TIME
MONITORING



ACCURATE
DATA



REMOTE
ACCESS



EFFICIENT
MANAGEMENT



SUSTAINABLE
SOLUTIONS



Smart Ship Solutions

Connecting People



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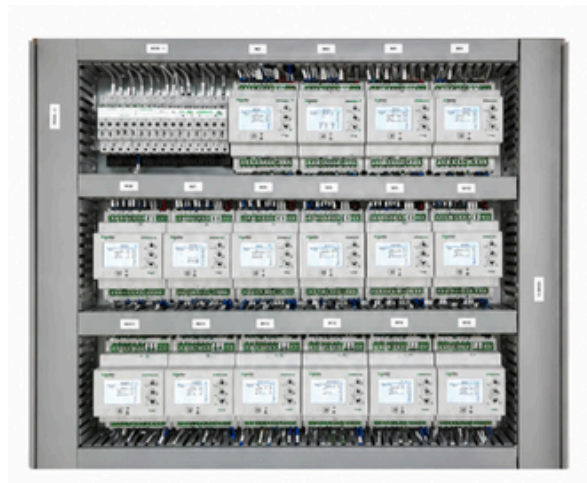
SMART ENERGY MONITORING SYSTEM

ABOUT THE SYSTEM

- A Smart Energy Monitoring System (EMS) is used to track, analyze, and optimize energy consumption in real time. This system becoming increasingly important in Ships, Commercial industrial setups, buildings, or homes for reducing energy costs and supporting sustainability efforts entire facilities.



- Track power usage live (kWh, voltage, current, etc.)
- Helps identify peak usage times and inefficiencies.



FEATURES

⚓ Real-Time Monitoring

Displays live data on energy usage (kWh, voltage, current, power factor, etc.) Tracks consumption by device, department, or building.

⚓ Data Logging & Historical Analysis

Stores energy usage over time Allows trend analysis for days, weeks, months, or years Useful for audits and compliance.

⚓ Alerts & Notifications

Customizable alerts for high consumption, peak demand, outages, or abnormal usage.

⚓ Integration Capabilities

Interfaces with BMS, SCADA, PLCs, IOT devices Compatible with renewable energy systems and smart meters.

⚓ User Access Control

Multi-user support with different permission levels (admin, viewer) Secure login and data protection features.

⚓ Energy Benchmarking

Compares performance against standards or similar facilities Supports energy efficiency goal-setting.



REEFER ENERGY MONITORING SYSTEM

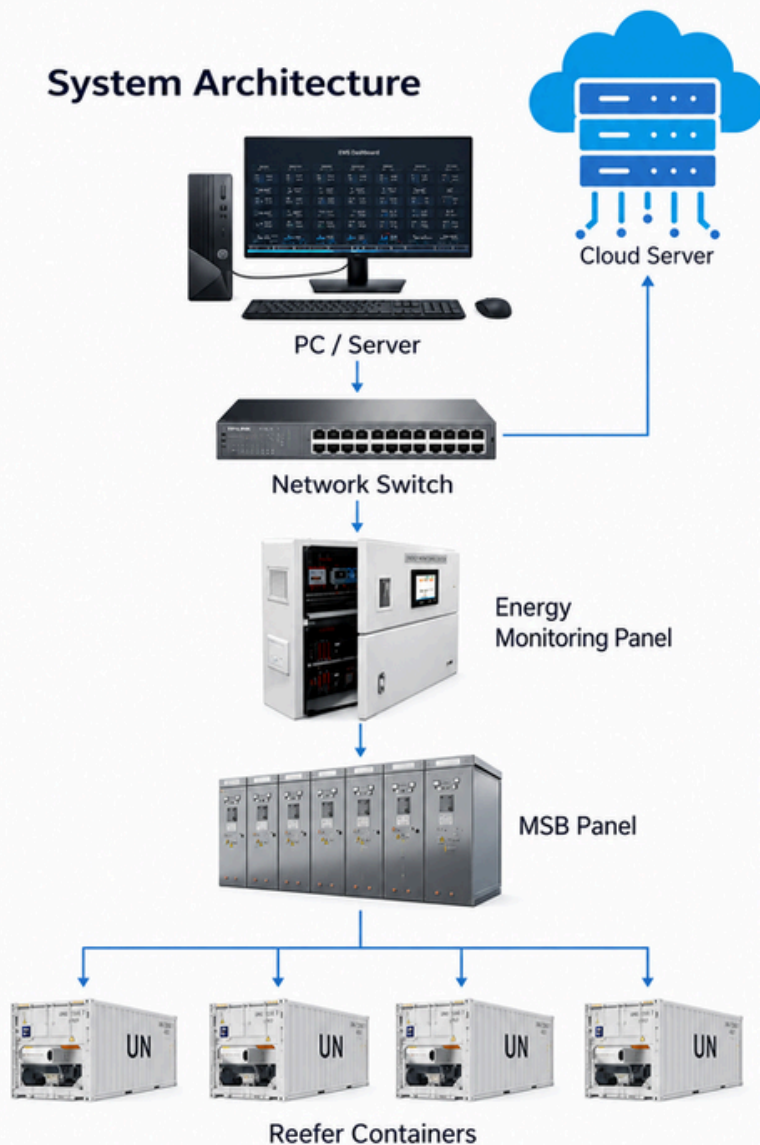
Using Power Meter Solution



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System Architecture



Key Features

- Real-time energy monitoring
- Reefer-wise energy tracking
- Alarm & fault alerts
- Remote access via PC / tablet
- Scalable and easy integration
- High accuracy measurement
- Remotely Monitoring
- Tailored design

System Overview

The system provides real-time energy monitoring of reefer containers using Multifunction Power Meters (MFMs) integrated with a centralized platform. It enables accurate data acquisition, remote monitoring, and efficient energy management for marine applications.

Benefits

- Reduce energy cost
- Improve reliability
- Fast fault detection
- Better load management

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