



YOUR COMPLETE
ENERGY
MANAGEMENT
SOLUTION

Optimizing Efficiency, Reducing Costs, Ensuring Sustainability

Welcome to PULSE⁺GRID

Pulsegrid is a cutting-edge energy management solution designed to **Optimize Efficiency, Reduce Costs & Promote Sustainability** for Industrial Operations. Our comprehensive solution covers every aspect of energy management, from planning and meter installation to **IOT Gateways & Cloud-Based Software.**





With PULSE[⚡]GRID
you can benefit from:

- **Real-time Data Monitoring:** Keep track of your energy usage and performance with instant live data.
- **Customized Reporting:** Tailor reports to your specific needs and gain valuable insights.
- **Proactive Alarms and Alerts:** Stay ahead of issues with custom alarms that notify you of any irregularities.
- **Detailed Analysis:** Analyze your energy data with a variety of charts and metrics for better decision-making.

Why Choose Energy Management Systems?

Global need for energy efficiency.

- **Rising Energy Costs:** Energy prices are increasing globally, making efficient energy use essential for cost control.
- **Sustainability Goals:** Governments and organizations are setting stricter carbon emission targets, pushing businesses toward cleaner, greener operations.
- **Resource Scarcity:** Limited energy resources necessitate smarter management to meet growing demands.

EMS Helps to Reduce Operational Costs and Environmental Impact.



A background image of an industrial facility at night, featuring complex piping, scaffolding, and bright blue and white lights. The scene is dimly lit, with the primary light sources being the facility's own lighting, creating a high-contrast, industrial atmosphere.

Pulsegrid is an end-to-end energy management system designed to meet the unique needs of industrial operations. Our solution encompasses every stage of energy management, ensuring that you have the tools and insights necessary to optimize energy usage, reduce costs, and enhance operational efficiency.

Key Components of PULSEGRID

- **Planning:** Comprehensive energy management planning tailored to your specific requirements.
- **Meter Installation:** Professional installation of energy meters to ensure accurate data collection.
- **IoT Gateways:** Seamless integration of IoT gateways for real-time data transmission.
- **Cloud Software:** User-friendly cloud-based software for monitoring, reporting, and analysis.

Features of **PulseGrid EMS**

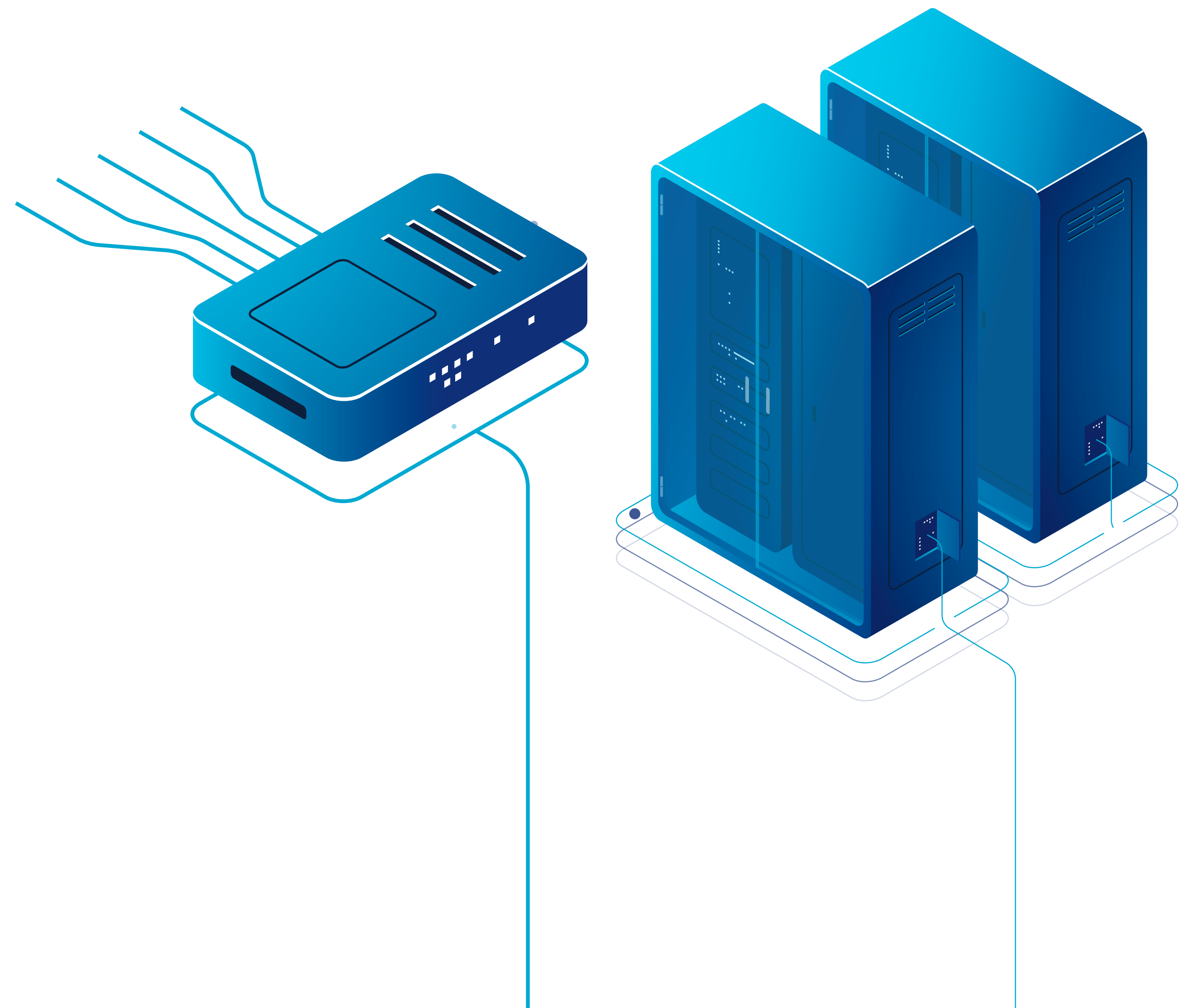
- **Smart Monitoring:**
Real-time energy data.
- **Dashboards:**
User-friendly interfaces design to client requirements.
- **Energy Analytics:**
Historical trends, Analytical trends.
- **Scalable Solutions:**
Suitable for small facilities to large industrial plants.
- **Alarms and Notifications:**
Alerts for abnormal energy usage or faults.
- **Reports:**
Analytical pre defined reports.



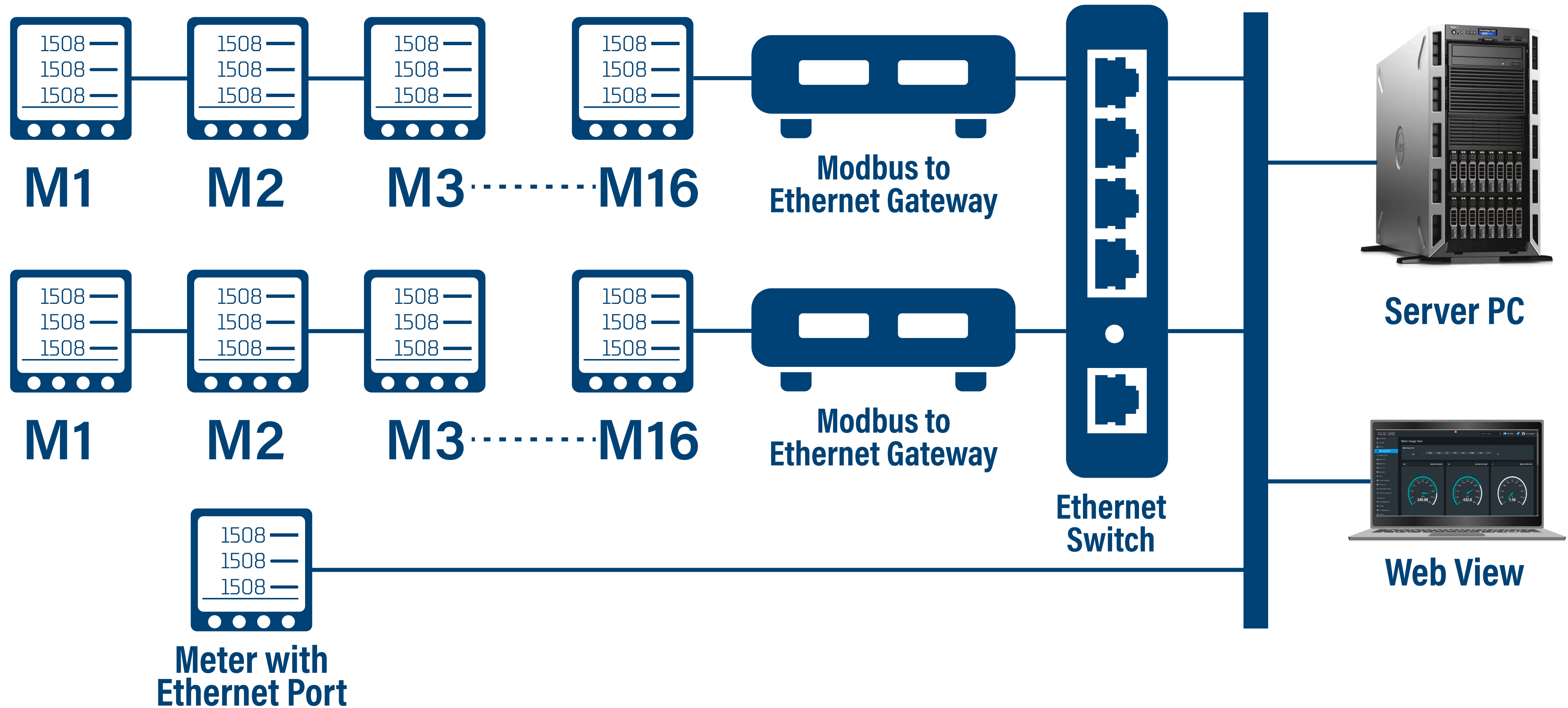
System Architecture for Local Server Application

HIGH-LEVEL SYSTEM DIAGRAM SHOWING:

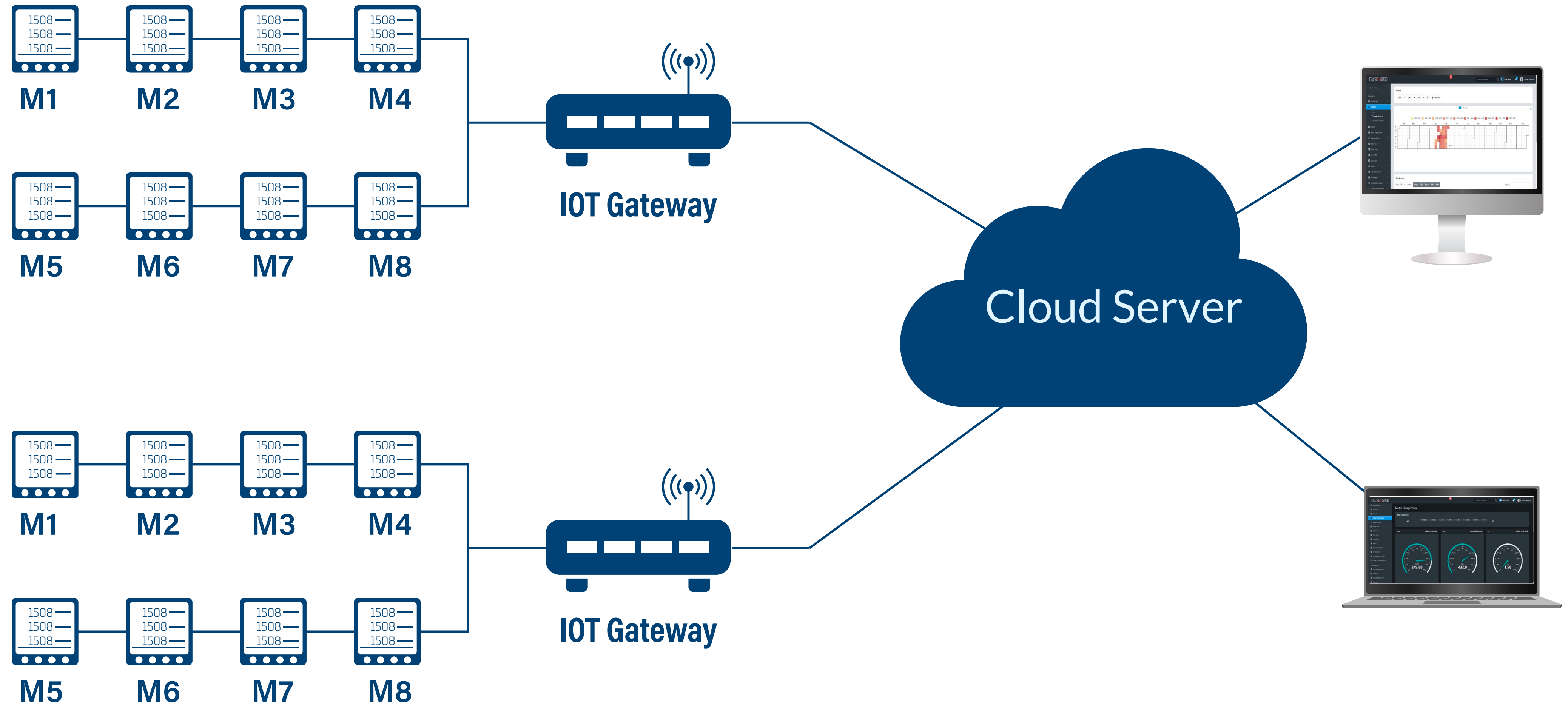
- Energy Meters
- Ethernet Switches
- Local Server
- User interface (web-based dashboards)



Local Server



Cloud Network



Bill of Materials

	Cloud Application	Local Server Application
Energy Meters with Modbus Facility	✓	✓
Shielded Twisted Pair RS485 cable	✓	✓
IOT Gateway	✓	
Modbus to Ethernet Converter		✓
Ethernet Switches		✓
Local Server		✓
PulseGrid Cloud Server	✓	
Internet Availability	✓	



Application Areas



Industries: Manufacturing, IT data centers, healthcare, etc.



Infrastructure: Commercial buildings, shopping malls, smart cities.

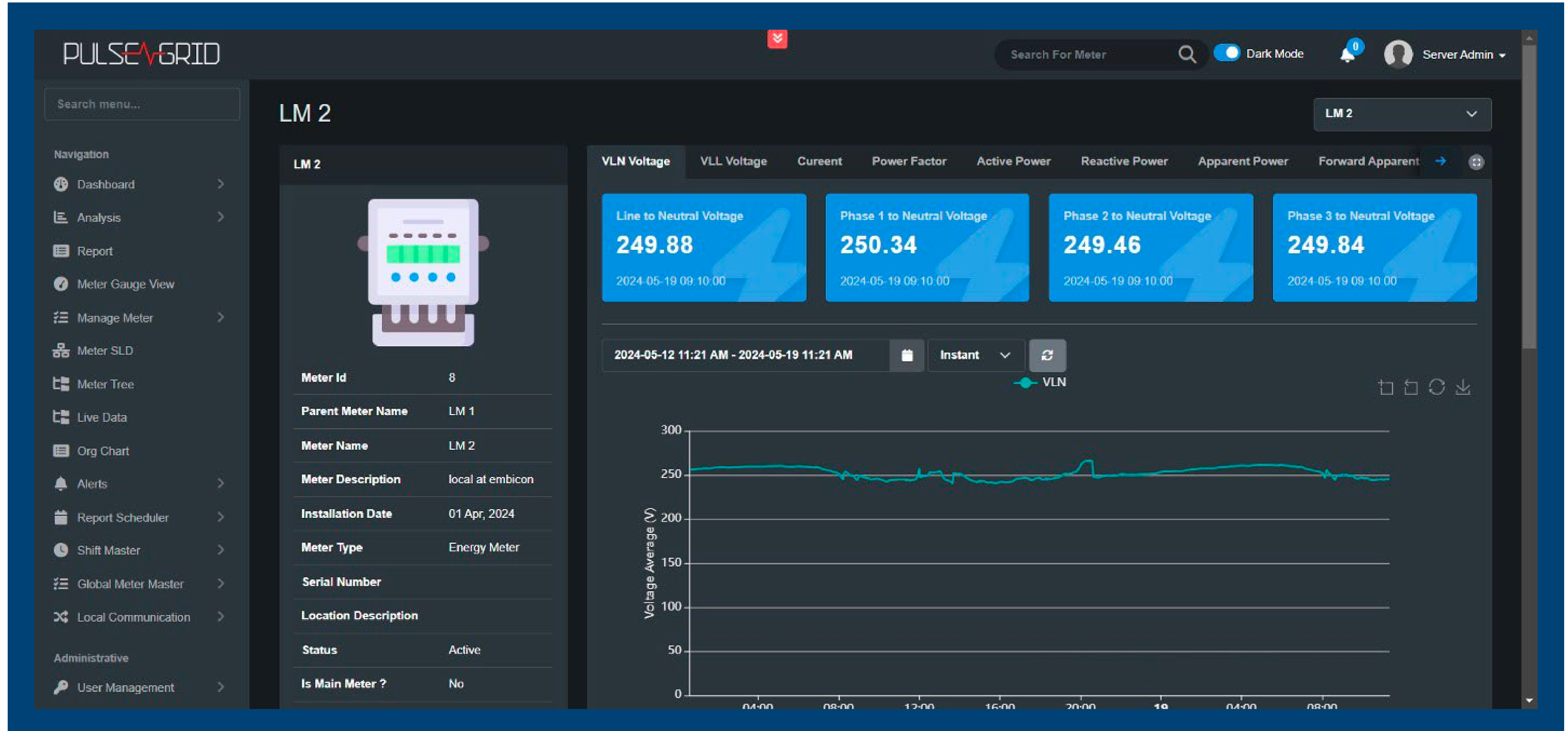


Utilities: Renewable energy systems, grids, and substations.

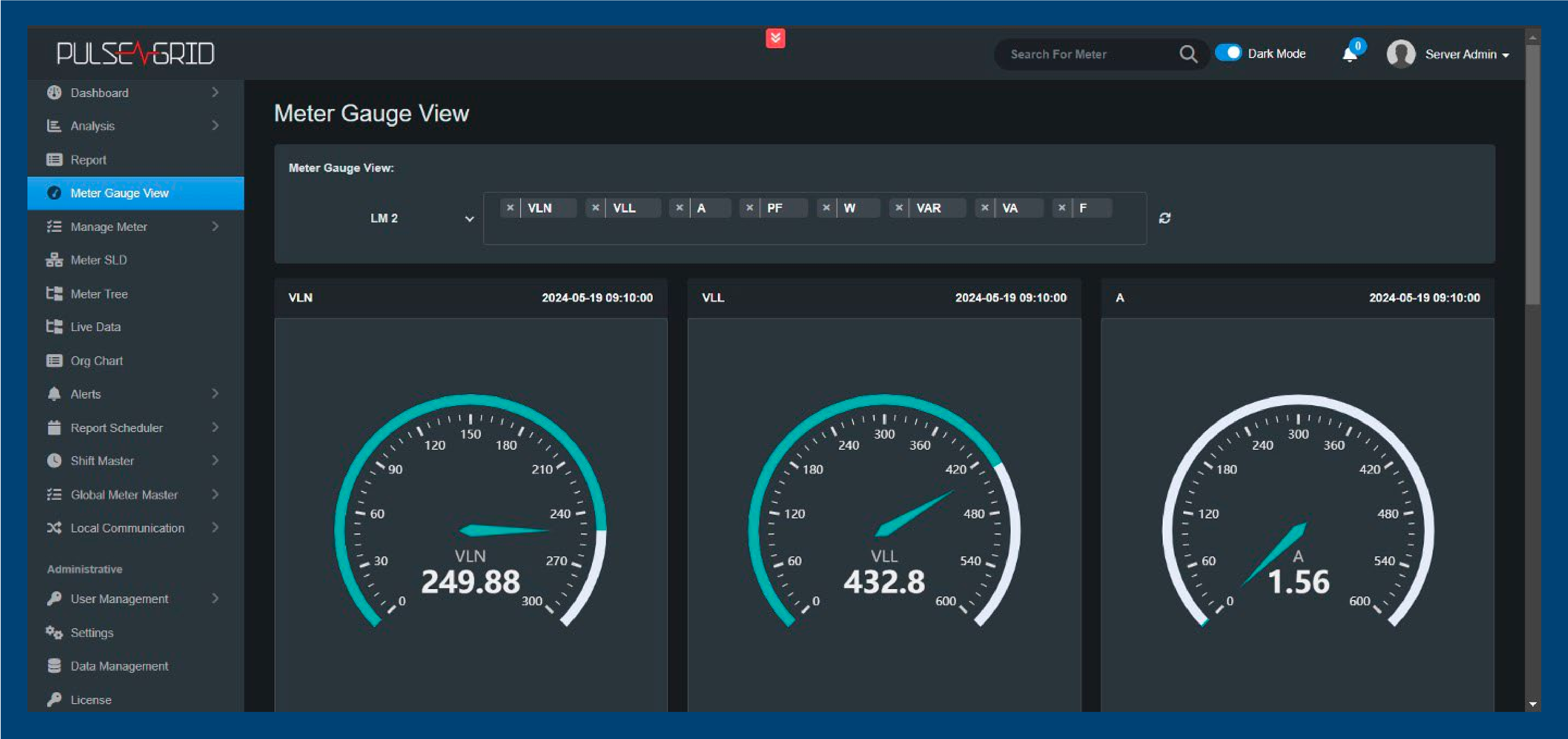
Technical Specifications

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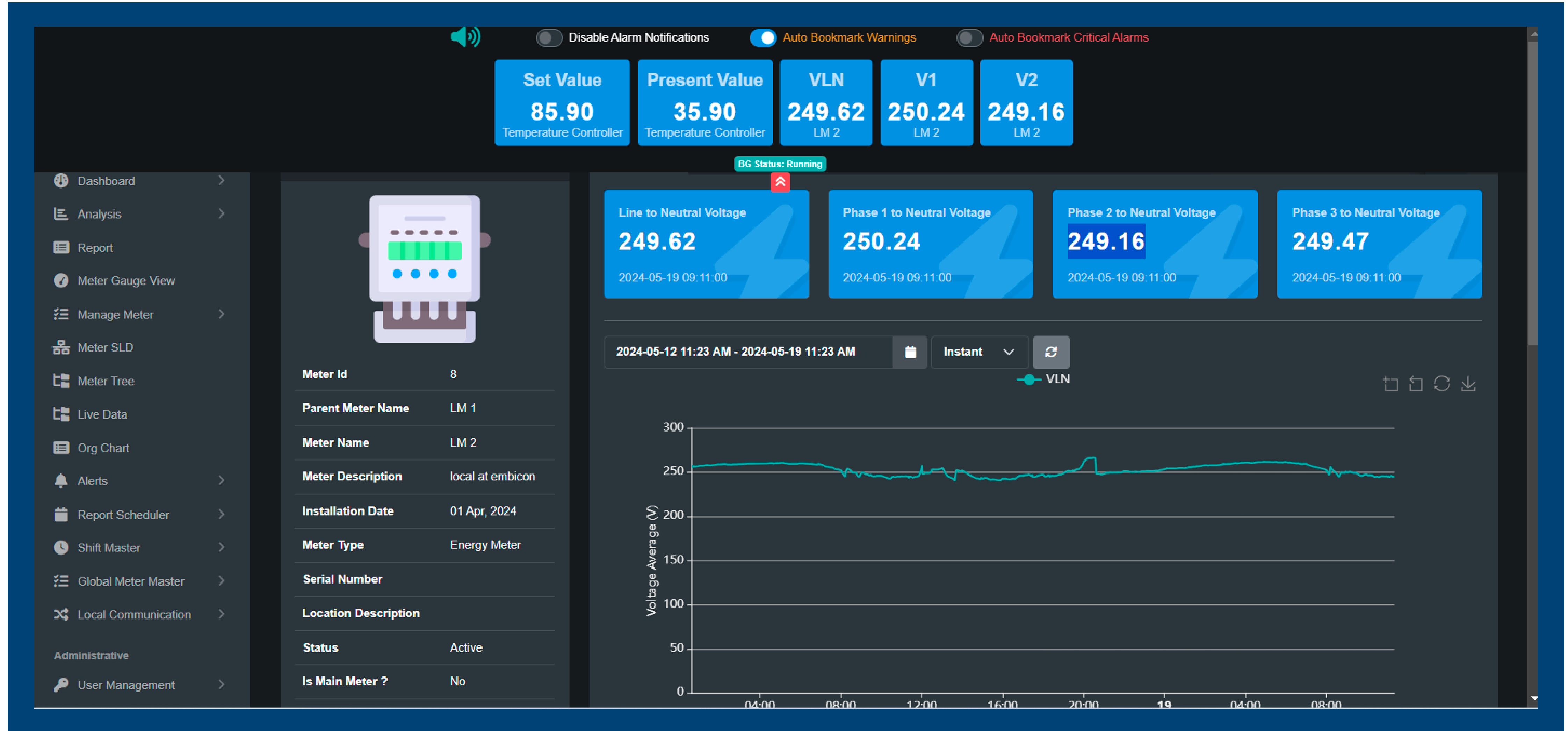
Smart Meter Dashboard



Meter Gauge View



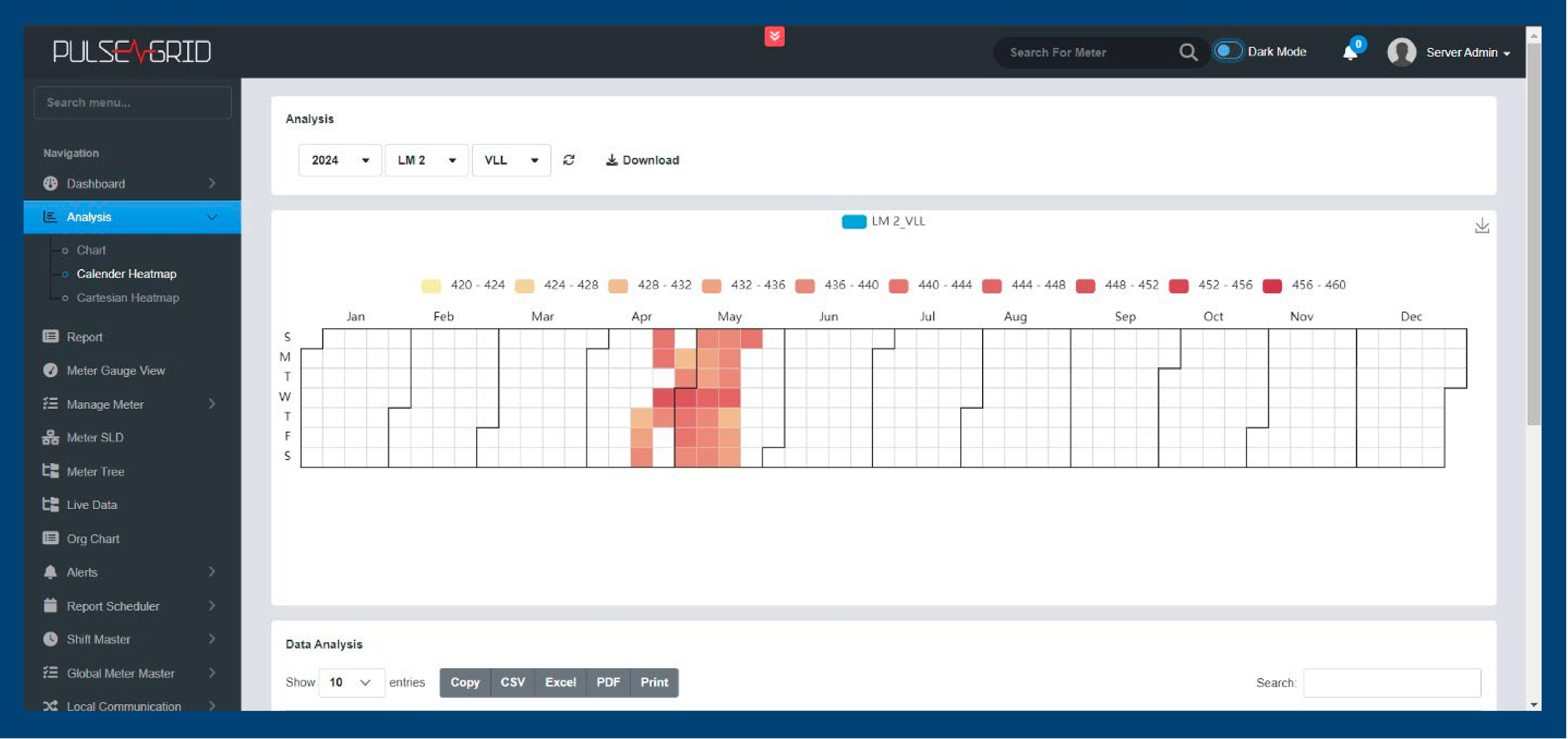
Intelligent Monitor Console



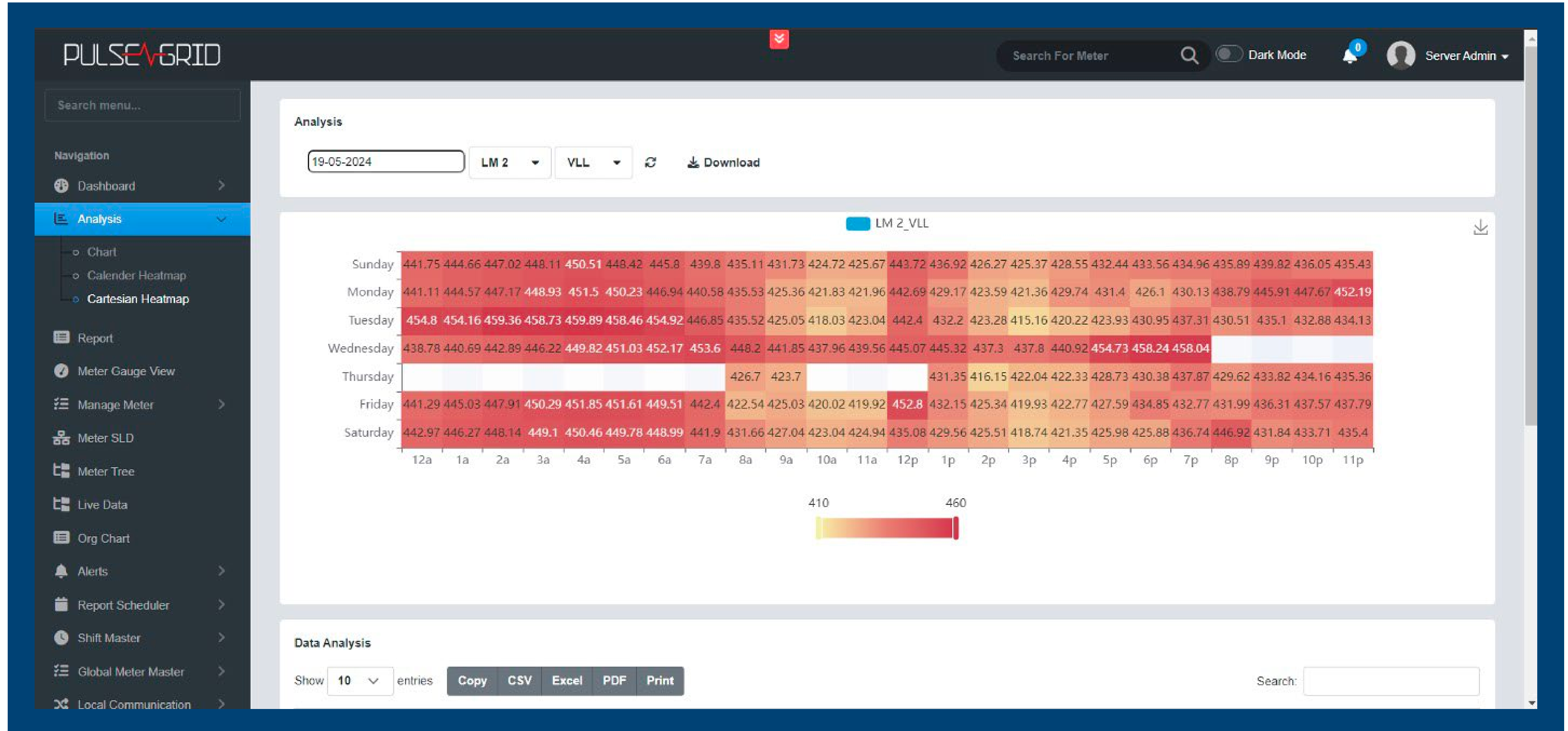
Data Analysis at Your Finger Tips



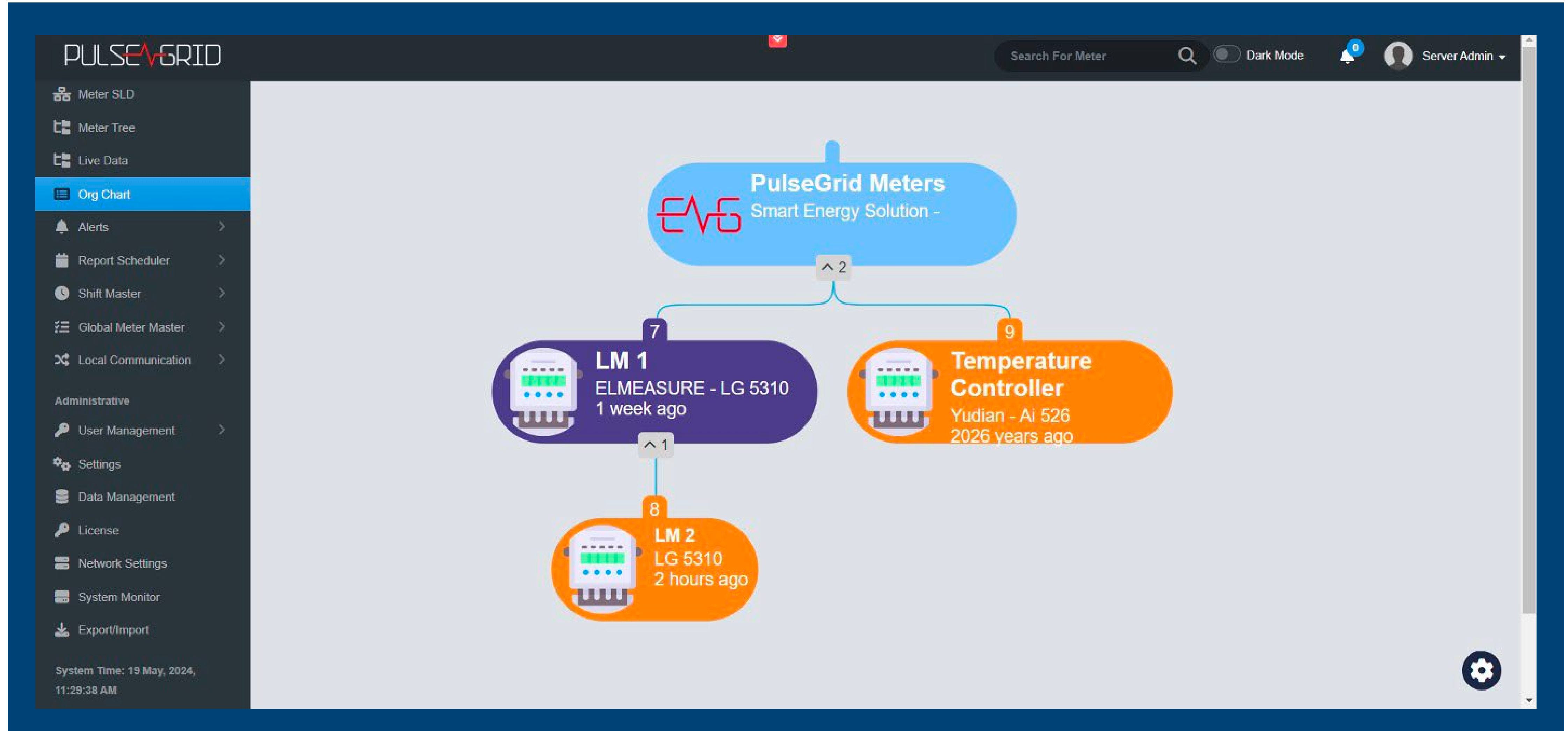
Calendar HeatMap - Full Year View



Cartesian Heatmap - Full Week View



SLD: Meter Connectivity Layout with Status



And List

Goes On



PulseGrid comes with many additional features including but not limited to...

- Customizable Data Monitor Alerts with auto email facility.
- Customizable Automated Email Reporting.
- Live Data Updates on Screen.
- In Built Alarms for live data.
- Option to autobookmark live alarms on monitor console.
- Complete Access to Data Management: Delete/Update/Insert any data any time.
- Automated Backup as per your requirement.
- Meter Communication Error Reporting.
- Most advanced technology and methodology used for efficient data management for large enterprises.
- Custom Analysis with charts/datatable and export to excel. You decide what you want to explore.



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Ready to transform your energy management?

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