Unity CMS

Flexible, End-to-End Monitoring, Control, and Optimization

From the edge to the cloud. From planning to decommissioning. The Unity CMS system from Power Factors is your turnkey monitoring, control, and asset management solution.

WHY UNITY CMS?

- Modular, scalable, highly available, and extensible open architecture
- Maximum interoperability — connects with any technology in place
- Single source of truth and single portfolio view — consolidates trusted data from multiple sites, vendors, and asset types
- OEM-agnostic
- NERC-compliant accessibility

The Unity CMS system from Power Factors empowers you with the trusted data, real-time monitoring, and mission-critical control you need to detect and resolve issues faster — the first time.

Whether you're dealing with grid compliance requirements, hybrid plants, supply chain disruptions, or lack of standardization, the Unity CMS system can help.

How? Unity CMS monitors and controls the actual performance and environmental conditions across your distributed assets in real time. By detecting operational failures or underperformance and calculating yield deficiencies, Unity CMS gives asset owners and operators the tools they need to investigate, analyze, and rectify the root causes of underperformance quickly.

UNITY CMS: Central Monitoring & Asset Management Platform

Secure & Resilient Communications, Cybersecurity

UNITY Field SCADA
(Device Level Networking, Data acquisition)

UNITY Plant SCADA
(Plant-Level Control)

UNITY PPC
Universal Power Plant Controller

UNITY RTU
Grid Interface

One unified solution for all your energy assets

Real-time data

Single asset and portfolio views

Local & Centralized control

Efficient Grid Integration

PPC
RELIABLE CONTROL

Effective grid integration is an absolute necessity for all renewable energy sources. We offer solutions customized to each grid and control need worldwide.

SCADA
ACCURATE & INTUITIVE

Real Time Performance Monitoring, Accurate Fault Recognition and User-driven Control. Enhanced performance and reduced OPEX with our next generation SCADA.

CMS
SECURE & POWERFUL

The whole portfolio of your assets under a unified cloud based platform. Advanced KPIs, Analytics and centralized control optimize your assets and unlock new revenue streams.

REDUCE OPEX AND INCREASE ASSET AVAILABILITY WITH A POWERFUL, INTELLIGENT PLATFORM

SMART MONITORING

- Data acquisition according to the IEC 61724 standard
- Retrofits
- Buffering
- Alerts
- Data export and reporting

REAL-TIME CONTROL

- Local and central controls and SCADA
- Dynamic control
- Grid integration
- Third-party SCADA (optional)

HIGH ACCURACY, RELIABILITY AND EASE OF USE

Turn-key solution for RES and BESS management

Support of multiple and geographical distributed assets through a common control center

Cyber security based on ISO 27001 and ISO 27019 standards

Alarm detection and management independent from the equipment of the asset

Support of multiple and geographically distributed cloud instances

Real time monitoring using data streaming techniques applied down to one second intervals

Operator actions and control commands protected with appropriate credentials

Immediate informing of any problem or failure to minimize the equipment downtime. SMS/email notifications for critical alarms

Monitoring and recording of necessary data for the automatic creation of a variety of reports

Overall Plant Power Control and grid integration

Energy production forecast

Easy Integration with 3rd party Platform

207+
GW Managed Assets

18K+
Project Sites

62
Countries

POWERFACTORS

To learn more, visit our website at powerfactors.com