

Power Distribution Solutions Application Engineering capabilities



Power Distribution Solutions

Answers for industry.

SIEMENS



The Siemens Power Distribution Solutions (PDS) Application Engineering team provides the required experience and knowledge to implement any system regardless of the size or complexity.

The Siemens PDS Application Engineers (AE) are highly skilled professionals who understand how to combine the best PMC software and hardware to create solutions that exceed our customer's expectations.

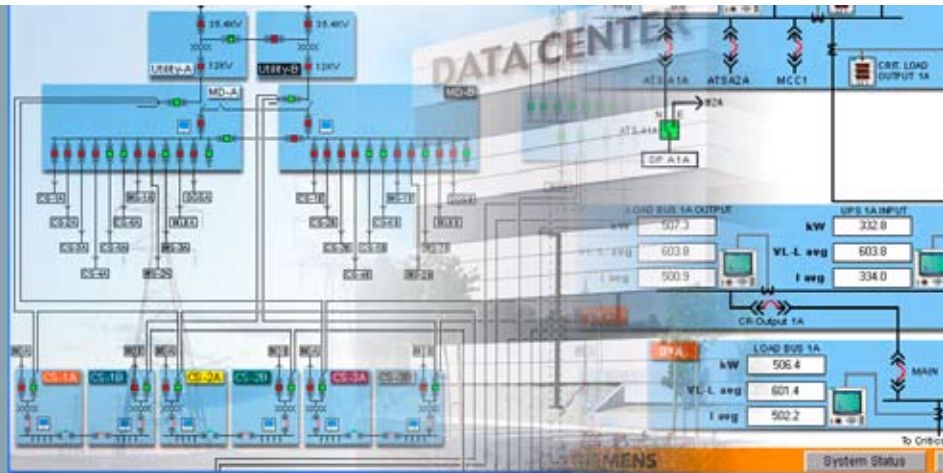
The engineering team routinely provides custom solutions that may include:

- LAN – WAN based solutions using our WinPM.Net web-based software
- Custom power metering logic
- Custom billing, energy usage or load profile reports
- Integration of other utilities like gas, water, steam, air and more
- Custom interactive one-line, elevation or floor plan graphics
- Third party hardware and software Integration
- Extensive alarm configuration and implementation
- Custom data logging and data retrieval.
- Siemens or others plant factory witness testing
- On-site and remote hands-on system training
- Overall PMC project management

Application Engineering Capabilities

Provides:

- Power Quality Reliability & Analysis
- Utilities Cost Allocation & Billing
- Utilities Usage Aggregation
- Load Preservation
- Equipment Monitoring
- Facility Monitoring & Automation
- Sequence of Event Recording
- Preventative Maintenance
- Electrical Asset Management



Key Market Expertise

Application Engineers are proficient in several key markets including:

- Industrial Applications – Petro - Chem., Cement, Food & Beverage, Waste water, Automotive
- Construction – new Greenfield or Retro-fit projects
- Critical Power – Data Centers, Hospitals, JCAHO
- Government Local, State & Federal Government EPACT projects, Universities, Airports
- Commercial Markets – for tenant or commercial sub billing

The AE acts as the project manager for power monitoring systems integration, working with the end user, consultant, integrator, Siemens sales team and other equipment suppliers, providing a single point of contact during the installation, implementation and close-out phases of the project. Additionally, the AE team will support any apparatus or plant customer acceptance tests where Siemens Web Enabled switchgear or other third party equipment requires a dedicated engineer to demonstrate Siemens ACCESS equipment.

Applications such as Custom reports, custom web pages, load shed, capacitor bank control, auto throw over schemes, generator control, and XML/OPC integration can all be handled by the AE team.

Typical Project Documentation





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Additional Application Engineers Capabilities

- Communication network topology approval drawings
- Project management plan for the PMC system
- Interface to Siemens Apogee building management system
- Power monitoring workstations and server configuration
- Final as-built operation and maintenance manuals
- Integrate with Siemens medium voltage, low voltage Switchgear & motor control centers
- Integration with Siemens industrial automation components & Software WinCC / PCS 7
- System communication troubleshooting
- Site Acceptance Test procedure (SAT), Method of Procedures (MOP), Factory Acceptance Test Procedure (FAT)
- On-site startup & commissioning

The Application Engineering staff also routinely interfaces with many third party components and applications. Some of these solutions include:

- UPS - Liebert, APC, Powerware, Piller Rotary, MGE
- Generators – Caterpillar, Cummins, Detroit Diesel
- PDU (Power Distribution Unit) – Liebert, PDI, MGE, Powerware, United Power
- RPP (Remote Power Plan) – Liebert, PDI, MGE, Powerware
- RELAYS – Basler, Switzer, ABB, GE, Siemens Siprotec
- Process control systems – Square D, GE, Eaton, Trane
- Integration of Branch Circuit Monitoring Systems (BCMS) – PDI, Veris, MGE
- Integration to Building Monitoring Systems (BMS) – Johnson Controls
- Battery Systems – Alber
- Voltage Regulators
- Third Party device integration - GE, Eaton, Schneider Electric, Electro-Industries, etc.

Siemens Application Engineering



- Custom Meter Application Programming and setup
- Create framework and setup local display screens for customer specific Application
- Custom Datalogging
- Custom ladder logic and Power distribution logic Programming
- Custom setpoints and alarm logic Configurations
- Email alarms
- Modbus Master custom framework programming & Ethergate
- Export Custom OPC tag for 3rd party devices
- Custom Webpages & custom XSL to display the downstream data in web
- Custom Sequence of Event Recording
- Write custom SQL query
- Write custom Reports
- Write custom excel macro to display meter data in excel
- Monitoring electrical and piped utilities Water, Air, Gas, Electric, Steam (WAGES)
- GPS Time Synchronization

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Custom Graphic Development



Power Distribution Solutions

Utilizing the comprehensive resources of Siemens and expertise of the PMC engineers, the PMC team can provide a total turnkey solution for any size project throughout the United States and beyond.

Our engineering staff is uniquely situated all across the United States, providing a faster lower cost solution to the end user.

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PMBR-AECAP-0109

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