Cisco Connected Grid Solutions

Substation Automation

Challenges

· Comply with security requirements and industry standards
· Reduce cost of operating substation network
· Reduce duration and number of system outages

Cisco Solution

· Address compliance (e.g., NERC-CIP) with physical and cyber security solutions
· Support IEC 61850-3 and IEEE 1613 standards for substation networks
· Reduce lease-line charges by consolidating services on a single, converged network
· Support remote diagnostics and predictive maintenance

Featured Products and Services

Cisco Connected Grid Router (CGR 2010)
Cisco Connected Grid Switch (CGS 2520)

· Rugged industrial design and compliance for utility substation environments
· Quality of service to support mission-critical applications such as SCADA and GOOSE messaging
· Tools for easy deployment, management, and replacement
· Planning and design services

Business Energy Management

Challenges

· Reduce energy waste and carbon footprint
· Coordinate energy management across facility and IT operations
· Comply with energy audit and corporate reporting needs

Cisco Solution

· Simplified monitoring, reporting, and control of energy consumption down to individual devices
· Centralized energy management across global operations
· Automated load shedding through policy-based decisions

Featured Products and Services

Cisco EnergyWise Technology

· Technology controls IP-enabled devices, such as laptops and phones
· Software solution is available on Cisco switches and routers

Data Center Operations

Challenges

· Scale data collection, analysis, and storage needs to meet smart-grid deployment demands
· Ensure data security and threat mitigation
· Optimize use of space, power, and cooling infrastructure

Cisco Solution

· Data center assessment and optimization services
· Scalable computing and storage for data analysis, metering, and billing systems
· Data center security and secure application hosting

Featured Products and Services

Cisco® Data Center Switches

· Virtualization for improved asset utilization

Cisco Storage Switching

· SAN virtualization for data storage and access

Cisco Data Center Services

· Network architecture for manageability and security

For more information, please visit
www.cisco.com/go/smartgrid

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