Schneider Electric Hydro Power Development Center’s Portfolio of Solutions

A complete solution for powering and managing hydro power plants

• Plant-wide automation systems.
• Turbine control (one or more turbine-generator groups), featuring start/stop sequence, speed regulation, and security alarms.
• Generator control, synchronization, protection and voltage regulation, exciters.
• Control of auxiliary equipment: dams, penstocks, valves, gates.
• Water resource management.
• Network connection and power monitoring.
• Electrical system devices and retrofit solutions.
• Lifecycle management: factory training services and factory field service engineers.

EcoStruxure™ Hybrid DCS
Modicon® PLCs
Turbo machinery controls
SCADAPak® Remote Control
PowerPact™ Motor Protection
Schneider Electric Integration Services
Square D™ Motor Control
Avantis® Asset Mgmt Software
Pelco® Security
Wonderware® Software
TeSys® T Motor Management
Square D™ Power Meters
Foxboro® Instrumentation
Schneider Electric™ Electrical Services
APC® UPSs

schneider-electric.com
1. Schneider Electric Integration Services
   - Full turnkey project responsibility
   - 300+ project reference sites construction and demolition services

2. Modicon PLC & Industrial Control Systems
   - EcoStruxure Hybrid DCS
   - Modicon PLC integration
   - Schneider Electric devices embedded into EcoStruxure Hybrid DCS

3. Hydro Turbine Solutions & Systems
   - Governor controls
   - Synchronizer controls
   - AVR/Exciter controls

4. Schneider Electric Services
   - Electrical system modernization and upgrades
   - Power system design and upgrades
   - MCC bucket replacement solutions

5. Cybersecurity Systems and Consulting
   - NERC CIP program development
   - Network system design
   - Hardware and software compliant system design

6. Mechanical Retrofit Upgrades
   - Speed gears, speed probes and brackets
   - Actuator cabinet conversions
   - Hydraulic power units high/low-pressure apps

7. Telemetry & Remote SCADA Solutions
   - SCADAPak
   - Smart RTUs
   - EcoStruxure Geo SCADA Expert - HMI
   - Radio solutions and wireless instruments

8. Square D Intelligent Motor Control Centers
   - Multiple communication protocols
   - Integrated communications and metering
   - Intelligent ethernet wiring

9. Altivar Drives Variable Speed Drives
   - Process control intelligent drives
   - Simple PLC integration
   - Wide range: 0.75kW - 800kW

10. Transformers
    - Comprehensive range of technologies
    - Wide range of power: 0.4MVA - 100MVA
    - Indoor and outdoor applications

11. Foxboro Instrumentation
    - Temperature, pressure, flow, level
    - Analytical: pH, ORP, conductivity
    - Power-centric solution offering

12. Square D Switchgear
    - Custom designs
    - Air and gas insulated
    - Competitive retrofit systems

13. TesyT Motor Management
    - Advance motor management system for protection
    - Motor starters and contactors
    - Multiple protocols

14. Medium Voltage Circuit Breakers
    - Drawout vacuum circuit breakers up to 27kV
    - High current air circuit breakers
    - Motor circuit breakers and switches

15. Power Meters
    - RTU for data acquisition and integrated metering
    - Multi-circuit meters
    - Power metering software

16. Lifecycle Management
    - Factory Training Service
    - Factory Field Services Engineers

17. Software
    - Industrial information management
    - Historian
    - Reporting tools

Let us arrange a webcast to demonstrate our EcoStruxure Hybrid DCS and Electrical Device Integration.

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