AUTOMATION SOLUTIONS
ANDRITZ works with your team to design, supply, commission, and support complete package solutions. We draw on our patented technologies and skills to add value to your projects and help you release your full potential.

AUTOMATION
ELECTRICAL AND CONTROLS ENGINEERING
SERVICES AND SOLUTIONS PROVIDED

ANDRITZ
ENGINEERED SUCCESS
Release your full potential

FEASIBILITY STUDIES
• E&I conceptual design
• Budgetary estimates

PROCESS SIMULATION WITH IDEAS
• Mass and energy balance
• P&ID design validation
• Contingency reduction
• Static and dynamic modeling
• Control system checkout

POWER SYSTEM STUDY
• Transient stability
• Protection coordination, short-circuit, load flow, and reliability
• Arc flash analysis and mitigation
• Harmonic analysis
• Power factor correction
• Load interconnection
• Electrical energy audit

INSTRUMENTATION ENGINEERING
• Control loop tuning
• Instrument specifications
• Pneumatic to electronic instrument conversions

PRELIMINARY ENGINEERING
• Project scope definition
• Power system development
• Electrical utility connections
• Process control system architecture
• Plant network architecture
• Material and contractor bid document preparation
• Schedule preparation
• Design and material specifications
• Construction specifications
• Budgetary estimates

POWER SYSTEMS ENGINEERING
• Protection system design and upgrades
• Capacitor and harmonic filter banks
• High voltage substation design
• Tap changer controls
• Load shedding systems
• Grounding systems
• Variable speed and sectional drive systems
• Large motor applications

POWER GENERATION
• Generator specification and design
• AVR/Exciter control systems
• Governor control systems
• Utility-interconnection studies

INSTRUMENTATION ENGINEERING
• Control loop tuning
• Instrument specifications
• Pneumatic to electronic instrument conversions

ELECTRICAL ENGINEERING
• Turnkey electrical distribution systems
• Switchgear, PDCs, MCCs, and control panels
• E-Houses
• Overhead line and pole design
• SCADA systems
• Power demand controllers
• Energy management systems

PROCESS CONTROL
• Process control system design
• Process control strategy development
• Control narrative development
• Process control system audits
• Control system migrations and upgrades

ADVANCED PROCESS CONTROL
• Control strategy development
• Adaptive predictive control strategies
• BrainWave
• Expert systems
• ACE (Advanced Control Expert)

COMPUTER SYSTEMS
• Management information systems
• Industrial networks
• Custom interface software between multivendor equipment
• Custom database software
• Barcode systems integration
• Servicing of existing software systems

ADVANCED PROCESS CONTROL
• Control strategy development
• Adaptive predictive control strategies
• BrainWave
• Expert systems
• ACE (Advanced Control Expert)

OPERATOR TRAINING
• Simulation-based training solutions
• Web-based training solutions

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