

Electrical and controls engineering

Services provided



Automation solutions

Release your full potential

ANDRITZ AUTOMATION 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 – quickly, safely, and ahead of the curve.

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

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 specifications
- Material specifications
- Construction specifications
- Budgetary estimates

Electrical engineering: power

- Load flow, stability, and reliability studies
- Arc flash studies
- Harmonic analysis
- Power factor studies
- Electrical system protective relay coordination
- Power system design and layout
- High voltage substation design
- Turnkey industrial power systems
- Grounding systems
- Variable speed and sectional drive systems
- Large motor applications

Electrical engineering

- Relay systems
- SCADA systems
- Power demand controllers
- Energy management systems
- Combustion controls (safety systems)

Process control

- Process control system design
- Process control strategy development
- Control narrative development
- Process control system audits
- Control system migrations and upgrades
- Process optimization
- Operator interface graphics design
- Process and control drawings
- Piping and instrumentation drawings
- Control room design



Instrumentation engineering

- Control loop tuning
- Instrument specifications
- Pneumatic to electronic instrument conversions

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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