

# Engineering & Integration



Get experience, knowledge and skills every time you partner with

**Tri-City Electric Co.**

Your power and control systems are among the most crucial elements to the success of your company. More than anything, you want an electrical contractor that gives you the confidence they will have the right people, right knowledge and right solutions. Since 1895, Tri-City Electric Co. has been getting the job done for our customers. You can depend on our Engineering & Integration division to do the same for you.

**CONFIDENCE DELIVERED.®**



**Tri-City Electric Co.**  
Since 1895

## Experienced in engineering & integration.

Tri-City Electric Company's Engineering and Integration division has in-depth knowledge and experience. We have years of proven experience to design, build and integrate complex power distribution applications and control systems.

*"Tri-City Electric Co. was a group that could come in and they could handle everything from start to finish... which was very impressive." — Joe Gosche, Project Manager, ADM Grain Corporate, Galveston, TX*

### AREAS OF EXPERTISE

#### Power System Analysis & Design

- Industrial/Commercial System Design
- Short-Circuit and Coordination Analysis
- Load Flow Analysis
- Arc-Flash Hazard Analysis & Mitigation
- Utility & Industrial System Protection
- Industrial SCADA Design
- Power Metering and Monitoring Solutions
- Protective Relay Design, Settings, & Programming
- Energy Management Automation
- Renewable Energy Systems
- Power Quality Solutions
- Power System Documentation
- Low & Medium Voltage Equipment Specification & Evaluation

#### Automation & Control Systems

- Design & Functional Specification
- Machine/Process Control Upgrades
- Project Engineering & Management

#### PLC / PAC Programming & Configuration

- Allen-Bradley, Siemens, GE, Schneider
- Legacy PLC Upgrades & Conversions

#### Industrial Networking

- Ethernet, Wireless Ethernet, ControlNet, DeviceNet, Remote I/O, DH+, Profibus

#### Operator Interface Design & Programming

- Allen-Bradley, GE, Siemens
- FactoryTalk, RSView, GE iFIX, Wonderware, VB, .Net
- Database Interface
- FactoryTalk EnergyMetrix
- Schneider StruxureWare Power Monitoring Expert

#### Motor Control

- Variable Frequency Drives
- Motion/Servo Control
- MCC/IEC/NEMA Motor Starters

#### Machine Vision & Bar Code

- Design, Configure, Program
- Cognex, Keyence

#### Control Panel Design & Fabrication

- Power Distribution Enclosures
- PLC Enclosures
- Operator Interface Consoles
- Motor Control Center Customization
- UL Listed Panel Shop

#### Control System Documentation

- AutoCAD Computer Design, BIM
- Electrical Schematics
- Enclosure Layouts
- Operation/Maintenance Manuals

#### Operator/Maintenance Training

- Customized and on-site

#### Installation & Commissioning Support

- Installation Specifications
- Cable/Conduit Schedules
- Project Management
- Engineering Troubleshooting & Maintenance Support Services
- Lockout/Tagout Coordination

#### Sensor & Instrumentation Applications

- Process Control
- Instrumentation Configuration & Maintenance

#### Unique Experience

- Cycle Time Reduction
- Reliability Improvement
- Wireless Technology (sensors, I/O, communication)



Find out how you can get **CONFIDENCE DELIVERED®** on your next project.  
Go to [www.tricityelectric.com](http://www.tricityelectric.com)



BBB Integrity Award Winner  
BBB serving Greater Iowa  
Quad Cities and Siouxland Region