



## E & I INDUSTRIAL MAINTENANCE SERVICES

- Develop and execute E&I maintenance plans
- Facility shutdown & turnaround support
- Commissioning & startup support
- System & equipment inspections
- Calibrations
- Device (Instrument, Electrical, Pneumatic)
- Fire & Gas
- Electronic Flow Measurement
- Shutdowns
- Repair Shop, sales and service
- Pumps, valves, actuators, meter runs, and PSV servicing
- Device & equipment rentals
- Document control
- Procurement
- +3M in inventory



## MAJOR PROJECTS

- Green field facility & wellsite construction
- Brown field facility & wellsite expansion
- Modular process buildings pre-wire
- Modular pipe rack modules pre-wire
- Modular E-House fabrication & pre-wire (including skid & building)
- Power generation packages
- Low & medium voltage power distribution equipment installations
- Fiber optic installations, terminations, and testing
- Commissioning & Start-Up
- Decommissioning
- Quality Control



## MEASUREMENT

- Meter inspections & verification
- Metering discrepancies & auditing
- Technical measurement support & meter installations
- Receipt point inspections
- Regulatory compliance
- Automated data collection
- Liquid meter proving (inline/bench/field)
- Meter exemptions & OPEX saving
- Product sampling & analysis
- Measurement schematics



## COMBUSTION & EMISSIONS REDUCTIONS

- Preventative maintenance
- Annual emergency shut-down testing
- Biennial flame arrestor testing
- Complete fired heater reporting
- Ongoing support and repairs
- Custom burner & emissions tuning
- Burner panel support
- B149.3 CSA Code Upgrades (Burner Code)
- Methane reduction
- OGI Camera for LDAR and fugitive emissions surveys
- Combustor and incinerator manufacturing & sales
- Fabrication



## RENEWABLES/SOLAR

- Wholesale PV wire supply (RPVU)
- Solar wiring harness fabrication shop services
- Electrical field construction
- SCADA and communications
- Solar operations & maintenance (O&M) support



## **AUTOMATION**

- Automated Control System Design
- Process Control, SCADA, historian, and ERP system integration
- SCADA / IoT / Operational Intelligence
- Process optimization, control system maintenance and modernization



## **MANUFACTURING**

- Control panel fabrication
- PLC, DCS, SCADA, HMI, VFD, communications, distribution panels, junction boxes, operator control stations, Photovoltaic (PV) panels, and compressor control panels
- Deliver low-volume custom/high-volume repeatable solutions
- System acceptance testing
- CSA/certifications
- Commissioning support



## **COMMUNICATIONS**

- Communication systems design
- Optimization through RF analysis/topographic data
- Mobile network design deployment
- CSA and non-engineered tower support/deployment
- Wired & wireless networks
- Two-way radio system design
- Cost/benefit analysis
- Objective audit & system assessment
- Licensing & compliance audit