

PTW
— ENERGY SERVICES LTD. —





PTW Energy Services Ltd. delivers trusted construction, maintenance and installation solutions. Utilizing our in-house project management, design, engineering and procurement teams, we can execute the most complex projects seamlessly. Our core products and services are:

ELECTRICAL & INSTRUMENTATION

We supply a comprehensive range of electrical and instrumentation products and services.

Electrical

- Start-up assistance, commissioning and construction
- Power and control wiring for motor control centers
- Low, medium and high voltage switchgear installations
- Construction and installation of modular substations and remote instrumentation buildings
- Installation and wiring of PLC, HMI and DCS control systems
- Installation and maintenance of grounding and ground fault systems
- Conduit and cable tray systems
- Installation and maintenance of fire and gas detection systems
- Inspection, project supervision and QA/QC programs
- Fiber optic installations
- Wellsite tie-ins and SCADA installations

Instrumentation

- Start-up assistance, commissioning and construction
- Design and specification of control systems, devices and control strategies
- Inspection services
- PSV repair and certification
- Meter proving
- Rentals (recorders, gas turbines, liquid turbines, deadweights and gauges)
- Complete supply and service of instrumentation products

- Equipment repair and exchange programs
- Configure and calibrate electronic and pneumatic equipment
- Field configurations for all manufacturing devices
- Function and loop testing
- Supply and installation of tubing and end devices

CONSTRUCTION & MAINTENANCE

We provide construction and maintenance solutions for upstream, midstream and downstream oil and gas facilities.

Construction

- Focused on large-scale execution of electrical and instrumentation construction for oil and gas facilities and industrial projects
- Centralized procurement and material management
- On-site project management and administration teams available
- Extensive quality management policies and procedures

Maintenance

- Plant turn-around assistance
- Preventative maintenance and planning
- Installation, calibration, repair and reconditioning of instrumentation products and valves
- Vendor neutral for all electrical and instrumentation products



HEALTH, SAFETY & ENVIRONMENT

We are committed to the safety and well-being of our workforce, the communities in which we operate, and the clients we serve. We have built a framework for maintaining a healthy and safe working environment by meeting or exceeding industry requirements and best practices.

We endeavour to achieve stringent health and safety goals by focusing our efforts on creative and effective strategies. These goals drive our decisions and define our culture and path for continuous improvement.

ACCREDITATIONS

- Safety Council of Southwest Louisiana
- ISTC - Industrial Safety Training Council
- Safety Council of Texas - Mid Coast
- PEC Premier
- BROWZ
- ISNetworld
- PICS Auditing
- Veriforce

TRAINING

Our people are integral to our continued success and we value them as our most important resource. As a National Center for Construction Education and Research (NCCER) accredited training sponsor, we are able to ensure that our employees maintain a superior level of competence on the job through ongoing training and development efforts. This translates into more value for our clients as well as enhanced safety, job enrichment, career development and advancement opportunities for our employees.

OUR PRIMARY GOAL IS TO ENSURE OUR WORKFORCE ARRIVES HOME SAFELY AT THE END OF EACH DAY.

PRESSURE SAFETY VALVE SOLUTIONS

PTW's talented and trained technicians perform safety and relief valve testing, repair and certification to ensure the protection of our clients' personnel and equipment.

- 24/7/365 service to reduce costly downtime
- Testing, repairs and certifications are executed in compliance with federal and state regulations
 - National Board Valve Repair Standards
 - American Society of Mechanical Engineers (ASME)
 - American Petroleum Institute (API)
- Fleet of test and repair trucks utilize safe and reliable equipment – up to 6000 PSI
- Mobile inspection and certification unit stamps valves – up to 3000 PSI
- Crystal DataLogger utilized on all services
 - Extremely accurate pressure recording system documents all test data
 - Mitigates human error and evaluates data graphically
- All services adhere to our extensive quality management system and document control procedures
- On-site repair trailer for all types of relief devices
 - Pilot, conventional or automated
 - Air, gas and liquid
- Preventative maintenance programs available



CONTROL PANELS & SYSTEMS

We supply our clients with a full turnkey engineered control system solution, control panel design and fabrication, PLC/HMI/DCS integration and on-site commissioning services for all automation requirements.

Panel Fabrication

- UL 508A/CSA certified for general purpose and Division 2 standards

Panel Styles

- Heat tracing contactor
- High voltage switching panels
- Lighting contactor
- PLC cabinets
- Power distribution
- RTU/SCADA panels
- Terminal junction boxes
- UPS control
- VFD control integration

Panel Project Management

- Our team assists with conceptualizing the most cost-effective solution to meet all required specifications
- Detailed QA/QC packages available

Control Systems

- Assist in HAZOP and SIL assessments
- Automation feasibility studies and justification surveys
- Control system design and programming
 - PLC
 - HMI
 - DCS
- Detailed cost estimates for control system projects
- Development of detailed control philosophy documents
- Review/create cause and effect diagrams (shutdown key) for operating facilities

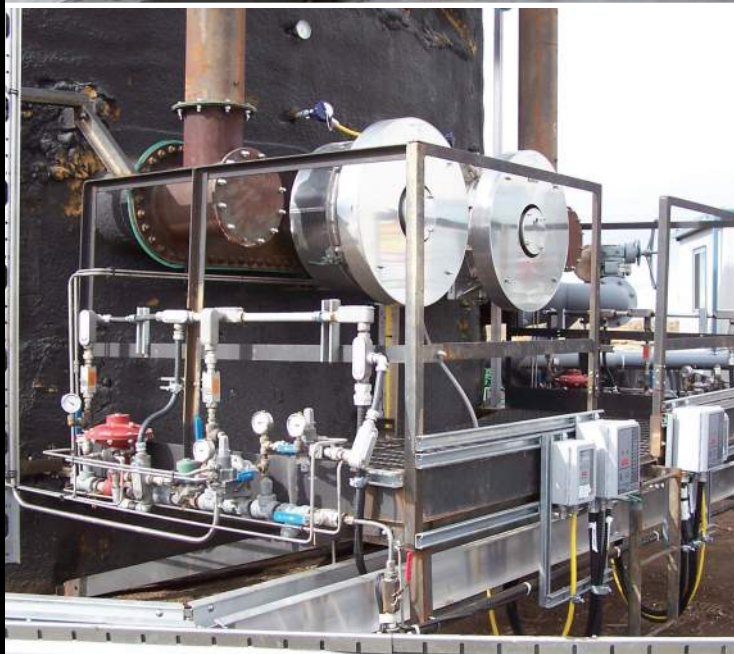
- Development of instrument index, instrument data sheets, loop drawings, etc.
- Assist in the development of process and instrumentation diagrams (P&ID)
- Integration into enterprise resource planning and production accounting systems
- Legacy system replacements or optimization
- Project management expertise

DRILLING SOLUTIONS

Our Drilling Solutions team has the widespread experience and technical knowledge to complete every job quickly, safely, 24/7/365 – minimizing our clients' overhead costs associated with downtime.

- Our extensive training program assures our workforce is proficient with the latest of industry technologies:
 - Integrated drilling control systems
 - PLC controls
 - AC drive programming
- Fully-stocked service trucks — no wait times for specialized parts
- Consultation and design solutions for custom applications





COMBUSTION SOLUTIONS

We assist clients to maximize efficiencies and achieve their environmental targets by providing natural and forced draft heater controls, equipment upgrades and preventative maintenance programs.

High Efficiency Burner Management Systems

- Meets the requirements of NFPA 87 codes
- Safe and reliable flame ignition and monitoring
- Innovative, compact design is extremely stable
- Flame profiling to maximize heat transfer
- No flame lift-off/impingement

Combustion Optimization

- Increased vessel process capacity
- Lower maintenance costs
- Reduced downtime and fuel consumption
- Reduced emissions (low CO, low NO_x, decreased CO₂)
- Extremely low NO_x burner solution (<35 lbs NO_x/MMSCF natural gas)
- Wet fuel gas freeze protection solutions

Services

- Existing equipment assessments to identify improvement opportunities
- New or upgraded equipment commissioning
- Complete system installation – from concept to completion
- Preventative maintenance programs for optimal performance and 24/7/365 technical support
- Post-installation fuel gas savings and emissions reduction reports
- Web-based asset tracking and detailed combustion reporting

SCADA & TELECOMMUNICATIONS

We offer our clients the flexibility to specify any EFM/RTU in a wide range of configurations. Using client preferred devices, we are able to integrate gas/oil measurement, telemetry and control to any existing SCADA system.

- Factory acceptance testing
- Field installation
- Start-up and commissioning
- SCADA system design and configuration
 - RTU
 - SCADA host
- Telecommunications
 - Communication system design and implementation
 - Path studies and link analysis
 - Radio tower consultations, supply and installations
 - Radio diagnostics and configurations
 - Fiber optics installs, testing and certifications performed by Fiber Optic Association approved technicians
 - Legacy system maintenance and troubleshooting

From single well metering to multiple controls, PTW's SCADA solutions seamlessly deliver data from the wellhead to production accounting.

- UL/CSA approval
- Custom panels
- BL compliance
- Multiple protocols
- Plunger optimization
- Solar panels and batteries
- WAN/LAN, radio and CDMA communications

HMI Integration

- Custom screens, reports and plunger solutions
- Facility design and integration
- Telecom design and integration

MEASUREMENT & METERING

We deliver calibration and support services to ensure accurate and cost-effective gas and liquid measurement using the most up-to-date equipment and procedures.

- Compliant with all applicable regulatory standards
- Inspection and audit capabilities
- Field volumetric and master meter proving
- Gas flow, liquid flow and liquid phase measurement solution integration
- Shop bench proving liquid and gas meter calibrations
- Installation, calibration and maintenance of gas and liquid measurement devices and packages
- Rental metering equipment
- Wellsite and facility host monitoring software systems providing data capture and analysis
- Metering packages



CONTACT US

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20 LOCATIONS - 5 REGIONS

Bakken, Utica/Marcellus, Rockies
Gulf Coast & Permian