



CAPABILITY STATEMENT

Oil & Gas
Facilities & Pipelines



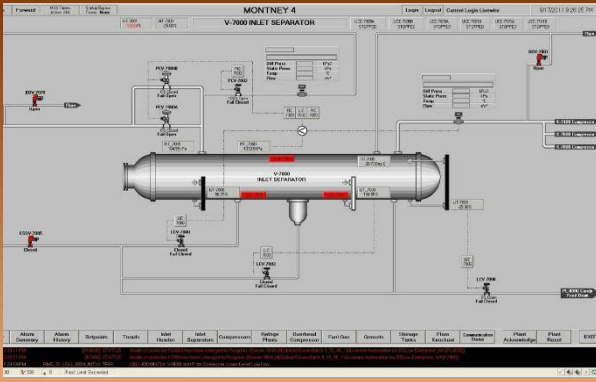


Our Vision is to become a global leader in delivering safe and superior control systems.

Our Mission is to create a safe and enriching work environment, hiring professionals dedicated to the success of our clients and our projects and to ensure we always deliver a "better than expected" product to our client.



Services: Control System Design • Network, Radio, & Fiber Communication Design & Installation • Advanced PLC, DCS, SIS, HMI, RTU & SCADA Programming • Automation Consulting • Project Management • Facility & Well Site Commissioning & Start-ups • FAT & SAT Testing • Electrical & Instrumentation Construction & Maintenance • Cause & Effect / Shutdown Keys • AutoCAD Services • Certified Control Panels • Hazardous Area Audits • Compressor Panel Commissioning & Start-ups • 24/7 Technical Support



**Shell Montney 4 Facility
Completed commissioning and start-up**

Completed PLC/HMI programming development & commissioning/start-up of the M4 project. Equipment included: 1 BPCS PLC, 1 F/G PLC, 3 Inlet Compressors, 1 Overheads Compressor, 2 Refrigeration Plants, 4 Generator Packages, 1 Generator Sync PLC. We currently perform any changes & maintain this system.



**Shell Saturn 1 Facility
Completed commissioning and start-up**

Completed commissioning and start-up of the Shell Saturn facility. Equipment included: 2 BPCS PLCs, 2 SIS PLCs, 5 Main Compressors, 2 Refrigeration Plants, 2 Recycle Compressors, 4 Generator Packages, 1 Generator Load Shed, 2 VRU packages, 1 Still Vent, 1 Tank Farm. Currently complete and maintain any changes or additions to this facility.

**Canadian Natural Resources
North Microwave System**

Designed, constructed, and installed all of the communication equipment for the north CNRL orthagon microwave system. This included installing communication towers and programming all orthagon radios. The assets of Devon Canada were also included in this upgrade.



**Canadian Natural Resources
EFM SCADA Radio System**

Designed, constructed, and re-configured the Fort St. John EFM radio system. Performed RF path studies on all existing systems. Upgraded the existing 1200 baud system to 9600 baud. Upgraded communication systems and utilized existing towers. Upgraded communications on all RTU devices



Programming & Commissioning

Livewire performs advanced PLC, DCS, SIS, HMI, RTU, & SCADA programming. Let us design and build your next Control System offering complete FAT & SAT testing. Our services include Shutdown Keys, AutoCAD drawings, Consulting & Project Management.



Telecommunications & Design

Livewire can perform path studies, program & install communication equipment at facilities & well sites, and are certified to install and troubleshoot fibre. Livewire can install communication towers and our technicians are fully trained in tower rescue and have completed all applicable safety courses.

Facility & Well site Start-up

Livewire performs all commissioning and start-up support for new facilities and well sites. We are on call 24/7 and we carry a huge selection of PLC and automation parts critical for the operation of your plant and compressor sites.



CNRL Septimus Facility Completed Programming, Commissioning and Start-up

Completed PLC/HMI programming development & commissioning/ start-up of the Septimus project. Completed all well site programming & commissioning, and telecommunications work for this field. We currently perform any changes & maintain this system.

CNRL PJ Field SCADA, PLC, & Radio Upgrades

Upgraded Factory link host to PCVue. Reprogrammed Nancy Oil Battery PLC & quick panel. Programmed new water injection facility at unit 2. Designed & installed new radio system for water injection wells. Programmed all H2O Inj wells for flow comparative and shut down logic.



CNRL Birch Field SCADA, PLC, & Radio Upgrades

Programmed & commissioned new PCVue SCADA host. Upgraded existing oil battery plant PLC from GE 90-30 to RX31. Programmed new water injection skid. Designed new radio system and installed all telecommunication equipment for the SCADA system. Procured and supplied all of the RTU electrical panels for the field.

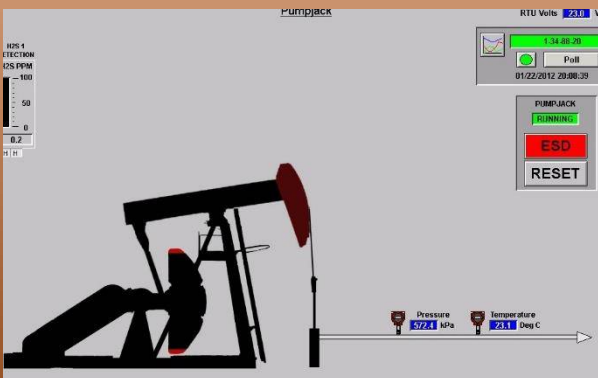


CNRL Buick Field Commissioned SCADA host, PLC upgrade, and radio upgrade

Programmed new PCVue SCADA host. Upgraded Buick GE 90-30 plant PLC to RX31. Upgraded the existing radio network from 1200 baud to 9600 baud. Installed new Ethernet radio network to remote plant PLC's. Re-programmed and commissioned Prespatou facility. Installed new protalk callout.

Instrumentation & Electrical

Call Livewire for all of you electrical & Instrumentation requirements. We perform routine maintenance, construction, and trouble calls. Some of the E&I services we provide are compressor panel & generator shutdown checks, plant maintenance, calibration services, well site construction and commissioning. Contact us to perform hazardous area audits.





QGC Argyle & Bellvue Commissioning & Start-up

Livewire Automation was engaged by Enerflex Australia to assist them with the start-up and the commissioning of 6 screw compressors at Argyle facility and 4 screw compressors at Bellvue facility.



Shell Montney 3 Facility Completed commissioning and start-up

Completed PLC/HMI programming development & commissioning/ start-up of the M3 TCPL project. Equipment included: 1 BPCS/FG PLC, 2 Inlet Compressors, 1 Overheads Compressor, 2 Refrigeration Plants, 4 Generator Packages. We currently perform any changes & maintain this

Shell Montney 3 PLC Expansion

Livewire procured & constructed a new PLC control cabinet for the Montney 3 facility. In addition to this, we performed all of the programming, commissioning, & start-up.



CNRL Birch Field RTU Control Panels

Livewire Automation procured and supplied all of the RTU SCADA panels for Canadian Natural Birch field.



Compressor Panel Start-ups

Call livewire for all of your compressor panel control requirements. We carry just about every PLC part for most PLC controlled compressor packages. We are the company to call for every emergency. We have helped operators keep natural gas compressors running in the peace region for over 7 years and we are proud of that commitment.



Certified Control Panels

Livewire Automation can procure and construct certified control panels for every application. Contact us today for a free estimate.

Locations

Development,
Programming
& FAT Testing
in our Shop

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Installation,
Commissioning
& Start-up
at your
Facility



Safety

Livewire Automation Inc. cares about its employees and believes that quality of work starts with the safety of its employees, suppliers, contractors, subcontractors and visitors.

Livewire is currently upgrading its safety system to comply with the international ISO safety management standard 18001.

Livewire Automation just recently achieved 7 years without a lost time accident. We are dedicated to protecting our employees and keeping our customers work sites safe by continuously improving our safety systems and culture. Congratulations to our group.

