



Ready is an engineering industry leader, providing controls and electrical engineering expertise to heavy industrial facilities including those in the Oil and Gas Industry.

Ready recognizes that the value we bring to our Oil and Gas customers is our responsiveness to their needs. Working closely with process engineers and maintenance and operations personal, Ready's expertise in sophisticated controls, communications, protection, and power distribution systems helps our customers extract more value from their facility operations.

INDUSTRY EXPERTISE

- Compressor Station HMI Design.
- Metering Station Electrical and Instrumentation Design.
- PLC/SCADA/HMI commissioning and start-up support on processing facilities.
- Electrical and Controls engineering design of oil fields and processing facilities.
- Remote Site and Low Power Designs.
- Remote Location Communication and Networking.
- Oil battery electrical and controls upgrades.
- Electric Utility Upgrades.
- Post start-up PLC, HMI, and SCADA 24/7 standby and remote support.

TECHNICAL EXPERTISE

- DCS: Bailey, Honeywell, Foxboro, Ovation, Siemens.
- PLC: Allen-Bradley, Modicon, Siemens, GE.
- HMI: Citect, Wonderware, Intellution, FactoryLink, WinCC .
- SCADA: Bristol, FloBoss, ROC, SCADApack.
- Video Historian, Surveillance and Intrusion Detection: Longwatch.
- Power Generation and Distribution Design.
- Power Systems Studies and Modeling.

TYPICAL CLIENTS

AltaGas

Cascade Energy

Conoco Indonesia

Suncor

Penn West Energy Trust

Syncrude

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SPECIALIZED SERVICES

- Engineering packages that are complete and consider constructability, providing the information needed on site.
- Controls Start-up and Commissioning Support for complex control systems consisting of thousands of I/O.
- Design and integration of mission critical business and process control applications and networks that bring information from the remote field operations to the corporate board.
- Control System replacements and migrations.

TYPICAL OIL AND GAS PROJECT EXAMPLES

Oil Field and Central Processing Facility, Egypt

Ready provided electrical and controls engineering for 9 oil well satellites (over 90 wells in total) and corresponding central processing facilities. Electrical design included cable tray, power distribution, electrical layouts and schematics. Controls design included schematic drawings, loop diagrams, PLC cabinet and junction box layout and termination detail drawings, and PLC and HMI programming.

Junior Oil and Gas – Various Projects

Ready has been involved in the design and management of control and electrical engineering work scopes for various junior oil and gas company projects. Projects include water injection facility upgrades, gravity water injection wells, and gas conservation projects. Responsibilities include Design Basis Memorandum development, PLC/SCADA/HMI specification and programming, power studies, area classifications, utility upgrades, HAZOP reviews, Electrical and Control IFC packages, site investigations, RFQ development and review, procurement, commissioning and start-up support.

Underground Salt Cavern Natural Gas Storage

Produced preliminary cost estimates and engineering for water injection facilities to produce 3 underground salt caverns with storage potential for 1 bcf of natural gas each. Design included preliminary instrumentation specification, electric utility contract discussions, electrical equipment procurement quotes (transformers, MCCs, and VFDs), communications/network design, controls philosophy, and control system specification.

Isooctane Production Plant, Facility Upgrades

Provided project management and electrical engineering support for facility upgrades including complete UPS and battery upgrade, server room electrical design, HVAC power and control design, electrical heat trace design, and installation of a hydrogen metering skid. Specific items included electrical studies, risk assessment studies, estimating, engineering evaluations, budgeting and change management, and contractor supervision.

Offshore Oil Drilling Platforms - HMI Upgrades, Indonesia

Provided operator console migration expertise to modernize the operator consoles on three oil drilling platforms in Indonesia. Project included converting over 300 operator graphics to the new system while still having the same look, feel, and functionality as the original operator consoles. Ready's conversion tools automated many of the project tasks to reduce conversion costs.

Multiple Gas Plants, Alberta

Commissioned and maintained SCADA systems at several natural gas plants. Including field radio networks and plant servers.

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