

# Upgrading natural gas processing facilities for a global Oil & Gas Company

**Working with a specialized projects company to upgrade natural gas processing facilities for a global oil & gas company**

## Background & Project Brief

Our client, a specialised engineering projects company based on Australia, needed to install new compressor controls equipment which required a large corrosion resistant enclosure to give easy access for commissioning, maintenance and repairs. The location would be in an IECEx Zone 2 environment. The panel also needed wireless communication for vibration and temperature sensors to assist with predictive maintenance.



## Challenges

- Variety of equipment to be installed in IECEx Zone 2 including a large HMI
- Inclusion of batteries requiring special assessment
- Need to meet the requirement of shutdown period
- Thermal management

## Outcome

- A joint feasibility study was carried out with the client, prior to agreeing the final enclosure design.
- Expo built two large double door enclosures, using 3mm 316L stainless steel to meet the required specifications and timescale. Although a Zone 2 application, each enclosure was fitted with a type X purge system and interface unit to give the end-users a greater level of control.
- After shipment to Australia, the customer will install the compressor control, and then the enclosures will be inspected & certified by Expo.

## Expo Products and Services

### MiniPurge type X

IECEX, ATEX & UL certified purge and pressurization systems

Features:

- Global approvals
- Purge flow capacity up to 900 NI/min
- Leakage Compensation or Continuous Flow
- Stainless steel enclosure construction



[Click here](#) for more information.

### Custom Enclosure Service



Some projects call for special shapes and sizes of enclosures, non-standard features, or very special applications, and may also require input from a Notified Body during the design phase or final certification.

With Expo's fully custom process, a dedicated engineer will work with you to develop exactly what you need and agree on a detailed budget and project timeline with milestones. As this is a highly flexible service, we can adapt the plan if your project requirements change.

[Click here](#) for more information.

### Customised Minipurge interface Unit

IECEX, ATEX & INMETRO Ex d certified solutions for enclosure power and signal isolation.

Features

- Global Ex d approvals
- Isolates low power signals and up to 32 A power.
- Compatible with Minipurge & SmartPurge II
- Aluminium construction



[Click here](#) for more information.