

## TriSystems PETRICO Sdn Bhd



**TriSystems PETRICO** offers sophisticated engineering design and enhance capability in process and control critical system in Refinery, Power Generation, Oil and Gas Industries.

### Visions

- To become main player for the supply of well-head control panel in oil and gas industry .
- To provide value to our customers by offering quality products tailored to customer's requirements.
- Engineers to focus on serving our clients with expertise in design, fabrication and service.

## Technical Solution

TriSystems PETRICO provides its services to clients such as PETRONAS Cari-gali, ExxonMobil, Shell and Hyundai Heavy Industries.

### Design of Control Panel

- Modular Concept
- Compact Design
- Easy Maintenance
- Easy Change out
- 100% Stainless Steel construction



# Wellhead Control Panels



Wellhead Control Panel / Emergency Shutdown system is a combination of standard pneumatic, hydraulic and PLC based logic in a single integrated solution such as Single/Multiple well control panel for both onshore and offshore applications.

Wellhead Control systems can be supplied with various control options ranging from simple Pneumatic based control to completely automated solution with RTU / PLC based (SIL2 or SIL3 rated) Safety Instrumented systems which can be monitored & operated from remote locations.

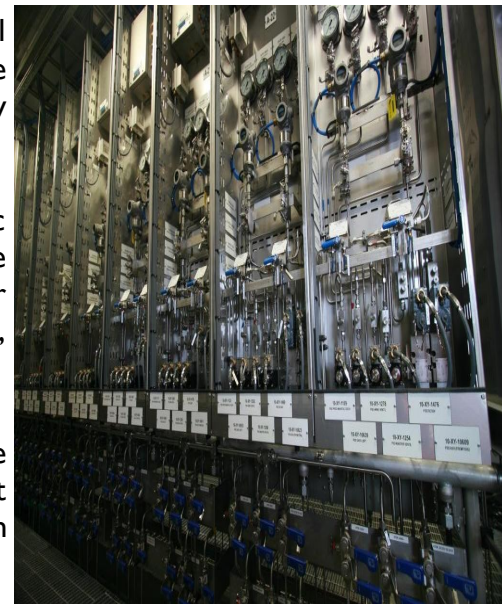
Wellhead Control Panels enrich with Hydraulic Power Units and Remote Terminal Units are all Engineered, Manufactured and Tested to meet stringent customer requirements & delivered as a single unit to site.

## Wellhead Invention

The WHCP is a complex hydraulic control system that provides control of the topside or direct-hydraulic subsea christmas tree. We can provide state-of-the-art systems for small “one-well” developments to major new developments with numerous trees.

TriSystems PETRICO has built standard systems with integrated Hydraulic Power Units, and also custom-built modules for high profile reference projects. In each case we have involved the necessary resources in order to develop the best possible system with regards to HSE, ergonomics, user friendliness and reliability.

We also offer *Solar Powered Wellhead Control Panel* that uses alternative energy to operate with autonomy for a continuous 10 days without conventional energy. Our technical knowledge gives complete solution in designing and modifying of Wellhead Control System.



# Hydraulic Power Unit (HPU)

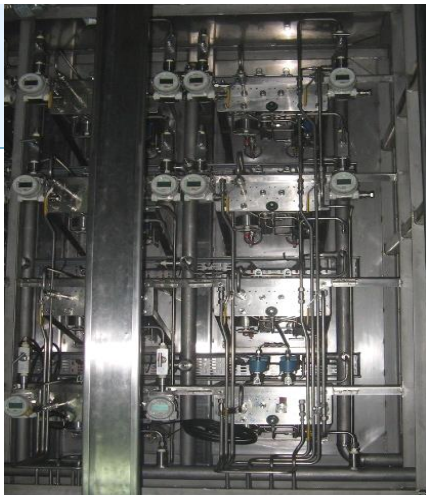
Wide range of operational areas in Hydraulic Power Unit (HPU) can be applied to Topside, Subsea and Drilling applications.

## Main concentration areas focuses on:

### Subsea Production HPU

- Topside Wellhead HPU
- Ballast HPU
- Topside HPU for Hydraulic actuated valves
- Drilling HPU
- Test and Flushing HPU

The HPU, a well designed systems fulfill clients requirements and specifications on top of offering standard HPUs and provides a stable and clean supply of hydraulic fluid to topside or remotely operated sub sea valves or tools.



## Functional Features

- Automatic pressure release. Surplus high pressure will be released to maintain the wellhead normal operation whenever temperature changes or mis-operation happens
- Suit for high and low temperature environment in range of -30 to 60°C temperature
- Stainless steel and rational structure design effectively isolates the natural gas and power, safer and explosion-proof.
- Operation within single well & single valve, single well & multi-valve, and multi-well & multi-valve – control types
- System can be operated both in manual control and remote control. ESD systems are available for emergency shut down purposes.

