



Oil & Gas Systems Limited

## Fuel Gas Conditioning



Most users of fuel gas require gas that is free from liquids and solids. This is particularly critical in gas turbine applications where severe damage may be caused to the turbine if the gas is not ultra clean and dry. Metered fuel gas is normally required at a steady operating pressure and at a safe margin above dew point.

Oil & Gas Systems Limited (OGS) supplies complete packages for the provision of clean, dry, metered gas at the required pressure and temperature from an untreated, unregulated gas source. In most instances the gas to be treated is natural from a gas transmission pipeline. Packages are designed to minimise installation time and costs and to maximise ease of operation.

### Separator

Proprietary vane, multi-cyclone or wire mesh type internals give high efficiency removal of bulk liquids.

### Filter/Separators

These are proprietary two stage units incorporating first stage cartridge filter elements and second stage vanepack, wire mesh or multi-cyclone mist extractor systems, which offer high efficiency removal of bulk solids and liquids.

### Flow Meter

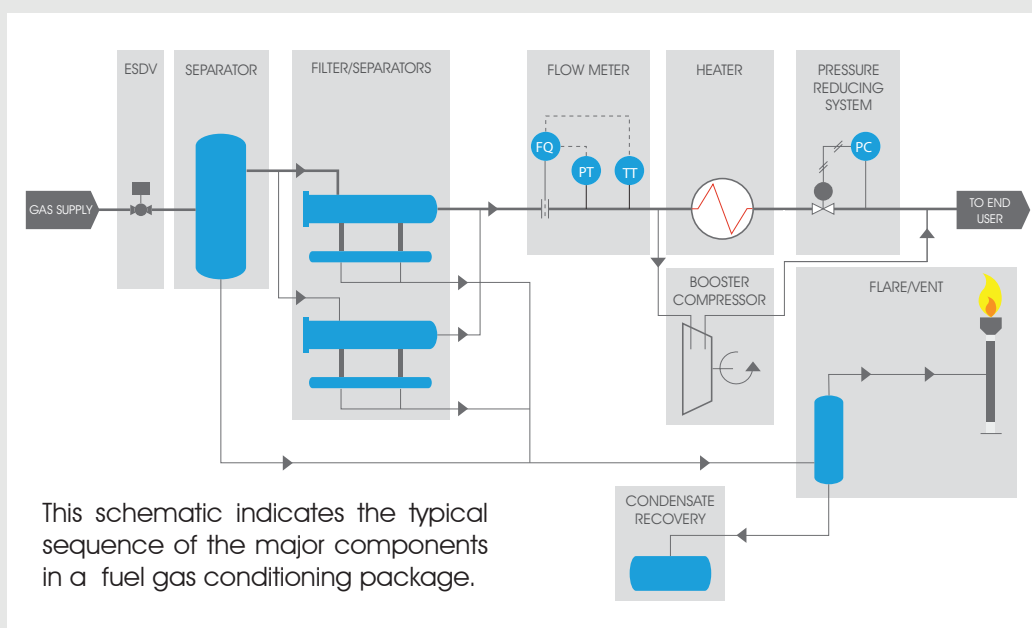
Turbine, ultrasonic, coriolis, orifice and vortex type meters, with or without pressure/temperature microprocessor correction facilities, allow for measurement of total or individual end user fuel consumption.

### Heater

Water bath or electric heaters or heat exchanger/boiler systems provide heating of feed gas to ensure product gas is above dew point temperature.

### Booster Compressor

Provides compression of low pressure feed gas to the pressure required by the end user. OGS is an approved packager of Ariel reciprocating compressors, available as lubricated or oil-free machines.



## Pressure Reducing System

There are numerous options available with varying degrees of complexity including:

- Self-acting & pressure controller actuated
- Single & multi-stage reduction
- Various associated safety slam shut systems
- Duty standby systems
- Active monitor systems



## Scope of Supply

OGS undertakes the complete design and supply of skid mounted or packaged equipment and our scope of supply typically covers all stages of project execution including:

- Detailed design and engineering
- Project management
- Manufacture
- Shipping and packing
- Training and support
- Start-up and commissioning supervision
- Calibration, integrated testing, and certification

## Approvals

Since the company was established in 1989, we have continuously developed our approach to design, procurement, project management, assembly, testing and supply of packaged equipment.

OGS was one of the first systems integrators to achieve ISO 9001 approval. Now, our approvals include:

- ISO 9001:2015 - Quality Management System Registration
- ISO/TS 29001:2011 - Petroleum, petrochemical and natural gas industries - Sector Specific Quality Management System
- BS OHSAS 18001:2007 - Health & Safety Management System

We are approved by a wide range of operating companies worldwide which include BP, Shell, Chevron, BG, Saudi Aramco, PDO and ADNOC Group Companies, KOC and KNPC. We are also registered on the FPAL and Achilles databases for the UK (Supply Line) and Norway (JQS) and are a GE Global Source approved supplier.



Oil & Gas Systems Limited

We design and supply packaged systems to oil, gas and power companies worldwide, both directly to end users and through internationally recognised engineering contractors.

Many of our systems are for offshore installations where space and weight are at a premium and we have a wealth of experience in providing compact solutions whilst still providing good access for operation and maintenance.

Our installed systems are conditioning feed gas for all major gas turbine manufacturers including GE, Siemens, Rolls-Royce and ABB.



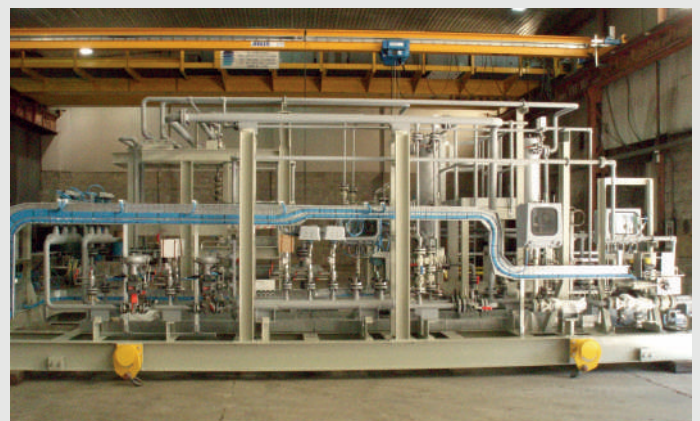
BP Shah Deniz 2 Fuel Gas Treatment Package  
(Azerbaijan, Offshore)



EnCana Buzzard Fuel Gas Conditioning Package  
(UK, Offshore)



Mellitah Bouri Fuel Gas Treatment Package  
(Libya, Offshore)



Tengizchevroil U800 Fuel Gas Conditioning Skid  
(Kazakhstan)

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