

At remote locations and offshore platforms, having a clean fuel gas available can be a challenge. GENERON offers simple and compact membrane fuel gas conditioning systems that can treat the poor quality raw gas available and produce clean fuel gas right at the site.

Running the gas engines or turbines on better quality fuel gas helps minimize equipment down time and maintenance. It also helps eliminate corrosion issues as well as de-rate and lengthens equipment life.

GENERON® fabricates its own membrane modules as well as complete systems and works directly with the client to provide the most cost effective solution.

Fuel is conditioned to meet requirements for specific engine or turbine manufacturers. The gas quality requirements specified as the MN (methane number), CAT MN, WI (Wobbe Index), WKI (Waukesha Knock Index), heating value (Btu/scf), or total inerts ($\text{CO}_2 + \text{N}_2$) requirement can be easily met

The GENERON® Advantage

- **Extensive Experience** - custom designed skids
- **State-of-the-art Membrane** - high recoveries
- **Simple Solution** - no moving parts, minimal Maintenance
- **Fuel produced right at the source** - No need for considering transporting alternative fuel, i.e diesel, which is costly
- **Small Footprint** - easily meet footprint requirements
- **No Waste Generated**
- **Remote Operation** - minimal attention required, fully automated system (if desired)
- **No Chemicals**—environmentally friendly

In addition to membrane skids GENERON also provides:

PSA systems

Instrument air packages

Air and gas compression packages

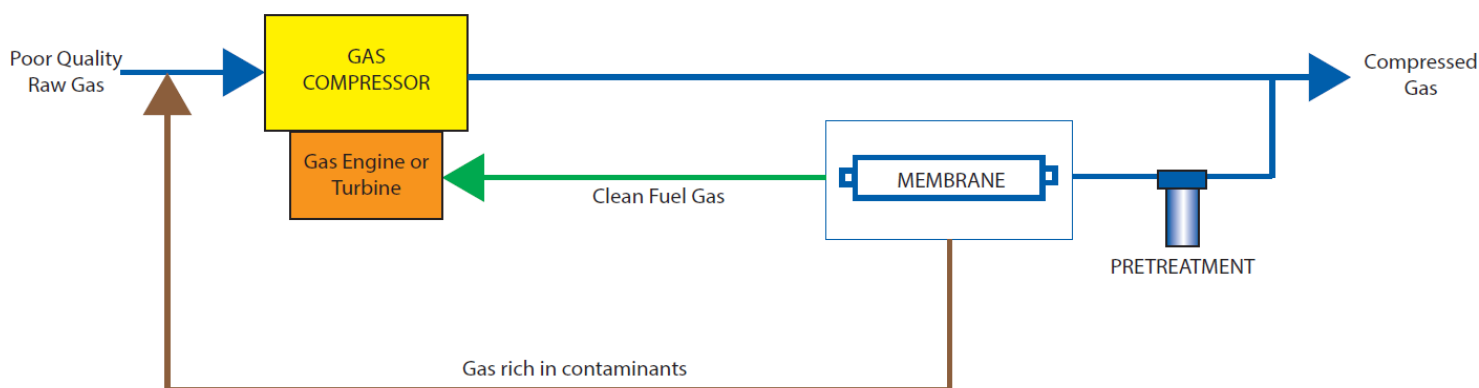
Blowers

On-site oilfield services—operating personnel and rental equipment



Fuel Gas Conditioning GENERON® Membrane Technology

In a typical GENERON® fuel gas conditioning treatment membrane system the feed gas is first filtered to remove any particles and liquid condensate. The gas is then enters the GENERON® membrane modules. The CO₂ as well as any H₂S, H₂O, heavy hydrocarbons permeate preferably through the membrane. The non-permeated gas, mainly CH₄, remains at pressure and is the product gas.



Advantages of MEMBRANE Systems:

- **No moving parts**, designed for **remote** unmanned **operation**
- **Efficient packaging minimizes space and weight** — ideal for offshore applications
- **Custom designed systems** - Accommodate wide range of fuel gas flow rate requirements
- **Quick deployment & quick Installation** - skidded system can be installed in hours
- **Clean Fuel Produced Right at the Site**
- **C3+ Recovered** - Instead of burning C3+ in fuel, client can recover - generate revenues

The System Performance:

- Feed gas pressures up to 2,000 psi (138 bar)
- Fuel Gas Produced: 0.01 - 100 MMscfd
- Meet Required MN, WKI, Wobbe Index, Inerts
- Adjust Heating Value 1000 - 1100 Btu/scf
- Lower dew point

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