

Coal bed methane gas is present in coal deposits. The gas mainly consists of CH<sub>4</sub> and CO<sub>2</sub>. The simplest way to treat the gas is with membranes to lower the CO<sub>2</sub> content to less than 2 mol % and inject the treated gas into the pipeline.

GENERON'S® membrane systems have been used to reduce the CO<sub>2</sub> and improve the heating value of the gas. GENERON supplies customized coal bed methane gas treatment systems which also include the feed compression. GENERON® fabricates its own membrane modules and works directly with the client to provide the most cost effective solution

Alternatives for treating the coal bed methane gas are amine systems which are complex and have high capital, operating and installation cost as well as require chemicals that needs continual replacement and disposal.

## The GENERON® Advantage

- **Extensive Experience** - custom designed skids
- **State-of-the-art Membrane** - high recoveries
- **Simple Solution** - no moving parts, minimal maintenance
- **Remote Operation** - minimal attention required, fully automated systems
- **Minimal Losses** - low HC losses
- **No chemicals**—environmentally friendly
- **Small footprint**—easily meets footprint requirements

In addition to membrane skids GENERON also provides:

PSA systems

Instrument air packages

Air and gas compression packages

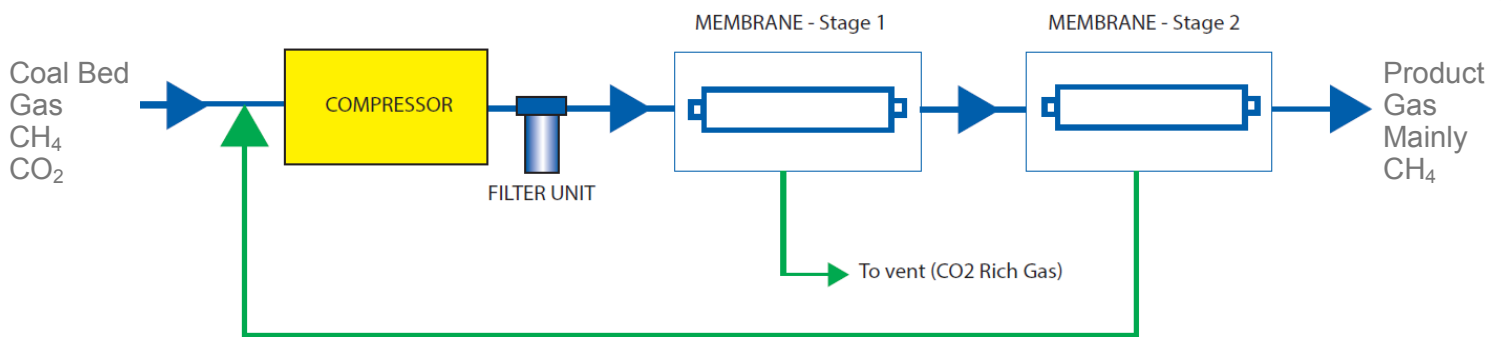
Blowers

On-site oilfield services—operating personnel and rental equipment



# Coal Bed Methane Treatment GENERON® Membrane Technology

In a typical GENERON® coal bed methane treatment membrane system the feed gas is first filtered to remove any particles and liquid condensate. The gas then enters the GENERON® membrane modules. The CO<sub>2</sub> permeates preferably through the membrane. The non-permeated gas, mainly CH<sub>4</sub>, remains at pressure and is the product gas.



## Advantages of MEMBRANE Systems:

- **No moving parts**, and designed for **remote unmanned operation**
- **Efficient packaging minimizes space and weight** — ideal for offshore applications
- **Custom designed systems** - maximize total hydrocarbon recovery
- **System flexibility** - Can operate at wide range of flow rates and CO<sub>2</sub> Content

## The System Performance:

- Feed gas pressures up to 2,000 psi (138 bar)
- > 60 vol% CO<sub>2</sub> in feed
- < 2% CO<sub>2</sub> content in product
- > 98% recovery of hydrocarbon gas
- > 90% removal of CO<sub>2</sub>
- Flow rates from 0.01 to 500 MMscfd

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