

Coal fired power plants are considered the largest emitters for CO₂. Membranes can dramatically help reduce the carbon footprint of these power plants by removing CO₂ from the plant flue gas. GENERON'S® flue gas treatment membrane systems can be used to remove the CO₂.

GENERON® supplies customized flue gas treatment membrane 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

An alternative for treating the flue gas is an amine system which is complex and has 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 meet footprint re-

In addition to membrane skids GENERON also provides:

PSA systems

Instrument air packages

Air and gas compression packages

Blowers

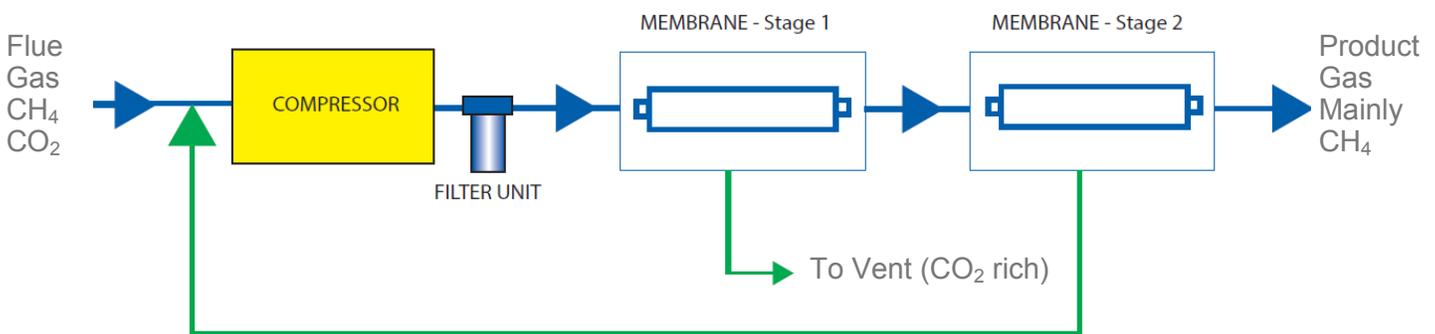
On-site oilfield services—operating personnel and rental equipment



Flue Gas Treatment

GENERON® Membrane Technology

In a typical GENERON® flue gas 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 CO₂ permeates 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**, 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 CO₂ Content
- **Quick deployment & quick installation** - skidded system can be installed in hours

The System Performance:

- Feed gas pressures up to 2,000 psi (138 bar)
- > 60 vol% CO₂ in feed
- < 2% CO₂ content in product
- > 98% recovery of hydrocarbon gas
- > 90% removal of CO₂
- Flow rates from 0.01 to 500 MMscfd

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