



# Produced Water Treatment

Due to new stringent regulations, discharge and re-injection of Produced Water from oil or gas production is becoming increasingly challenging for the producing companies.

When Silicon Carbide Membranes (LiqTech) became available for this market the main obstacles were taken away; the required capacity versus the requested filtration value (<5 ppm oil) is now available.

It also means that secondary treatment (flotation) and tertiary treatment (walnut shell filters) can be left out in many cases.

Triqua International has realised several projects, using membrane systems, on offshore and onshore locations meeting the most strictest discharge standards for wastewater. Triqua International is expanding their market by introducing this challenging Produced Water treatment installations.

The Ceramic membranes, used in these installations, are made out of Silicon Carbide and are having unique hydrophilic properties resulting in a Continuous high process flux.



SiC based CoMem membranes

The main characteristics are:

- The highest water flux compared to any other membrane material;
- The membrane material is chemical resistant for the full pH-range (0-14);
- And are also thermally resistant up to 800 degrees Celsius.



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Above pictures showing the perfect "high class" separation (before and after treatment)