



Our Solutions for the Oil & Gas Industry





YOUR PARTNER IN INDUSTRIAL WASTE WATER TREATMENT

Our Solutions

- De.mem offers specialized and customized systems and solutions for customers from the oil & gas industry.
- Water to be used by the oil & gas industry may come from well, seawater or recycled water. De.mem can treat the water to suit the requirement.
- Waste water often has a high oil & grease content. De.mem has extensive know-how to deal with such contaminants.
- Cooperation with leading academic institution and consulting partners gives De.mem the experience and support to solve complicated matters
- Using components particularly developed for oil & gas industry waste water.

Our Experience

Among others, De.mem and its engineers have experience in the following areas:

- Wastewater oil and grease removal by Induced Air Floatation, centrifuges, cyclone equipment, API separators, CPI separators or Dissolved Air Floatation-Flocculation unit and oil skimmers.
- Treatment of waste water through anaerobic and aerobic process using Upflow Anaerobic Sludge Blanket (UASB), MBR, SBR, Clarifier and chemical addition.
- Deionization of recycled wastewater by Ultrafiltration, Reverse Osmosis, Mixed Bed Vessels and electro-deionization for reuse.
- Removal of specific ions in seawater to a certain value, such as sulfate for well reinjections, through Nanofiltration membranes.
- Treatment and processing of sludge through centrifuges, belt press or incineration.



Case Study: Oil & Gas Industry

Objective: Treatment of Waste Water with High Oil & Grease Content

Solution: De.mem developed a customized process starting with an oil inception system. This was followed by a combination of membranes for the COD reduction. Final polishing of the water through different process steps to achieve re-use quality. At the same time, the system was designed most compact with a minimum footprint possible. Automation was provided through implementation of the De.mem platform including specialized sensor equipment.