



desalination applied for SEA WATER TREATMENT FOR ENHANCE OIL RECOVERY

Production of injection water
and fresh water for offshore oil
production vessels in deep water

- Desalination
- Sulfate removal

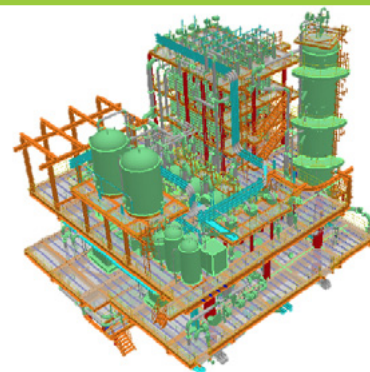


assets

- Preassembled skids
- Effective and reliable
- Secured operation
- Self standing plug and play transportable units

what can we do for you

- Comprehensive process guarantee on treated water quality
- Optimizing weight and footprint
- Preserving wells and reservoir from corrosion, ensuring optimized operation without chemical consumption
- Local management & engineering teams, global expertise



process

These seawater treatment systems are able to produce injection water for the extraction process.

The challenge is to produce a high quality of water which allows the crude oil's salinity to be reduced, while protecting the depots, tanks and equipment against corrosion. Benefiting from its expertise in sulphate removal by nanofiltration and desalination technologies, SUEZ has been able to resolve the issues linked to the incompatibility of formation water to be reused as injection water.

The process combines two kinds of treatment:

- **nanofiltration units** to remove sulphate from seawater in order to make it suitable for well water injection
- **reverse osmosis units** to desalinate seawater in fresh water to be used in the crude oil desalters



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