

Sea Water Desalination

In some locations, the only water available is from the sea. Seawater salt content is typically about 3.5%, but can exceed 5%. The major cost of desalting water is the energy required to achieve the high operating temperatures or pressures needed to separate the water from the salt. Haliant utilizes the latest energy recovery technology to provide the most energy-efficient desalination equipment available.

In 2004, Haliant Technologies commissioned a seawater desalination system to provide essentially all the potable water for an island community. Haliant's energy-saving design provided operating costs of less than 3 kwh electricity consumption per m3 of potable water.



Treated Water Results	Raw Water	Treated Water
Turbidity (NTU)	> 5 NTU	< 1 NTU
Hardness	> 200 ppm	< 1 ppm
Total Dissolved Solids (TDS)	38,000 mg/L	150 mg/L

