Deminerlisation Treatment Process

- **PRE-TREATMENT**
- **DEMINERALISATION**
- **POST TREATMENT**

Deminerlisation is the process of removing mineral salts from water by ion-exchange. The selective ions in the water are exchanged with ions or radicals loosely held by the resin. In this way, the water is passed through several vessels or a mixed bed vessel so that both positive and negative ions are removed and water is deminerlised.

Boustead Salcon understands that the water treatment requirements of our industrial clients are the most stringent among all category consumers. High-performance water treatment solutions translate into enhanced product quality and decreased processing costs. We help clients to achieve these important goals by delivering superior engineering that utilises the latest proven technological advancements.

**Designed and built more than 800 projects worldwide for public and private sector clients**

We have applied our vast knowledge and experience to create exciting and innovative engineering solutions for our clients. For industrial clients, the impetus to enhance water quality for industrial processes and increase water usage efficiency, goes beyond the standard “revitalisation” of water resources to include stringent requirements for high-performance water treatment solutions.
Boustead Salcon’s Experience

Multi-Utilities Complex
This demineralisation system with a capacity of 17,280 m³/day for the multi-utilities complex at Tembusu, Jurong Island was supplied by Boustead Salcon. Each demineralisation train is capable of producing demineralised water of 5,760 m³/day.

Multi-Utilities Facility
This multi-utilities facility located at Banyan, Jurong Island was built to supply various utilities to Jurong Aromatic Corporation and other customers in Tembusu and Banyan. The demineralisation plant consists of 2 demineralised water train of 7,920 m³/day and 1 condensate polisher of 7,920 m³/day.

Biomass Combined Cycle Power Plant
The demineralisation and condensate polishing unit within the complex was delivered by Boustead Salcon. By utilizing reverse osmosis (RO) and mixed bed exchanger technology, the demineralisation plant at Tembusu, Jurong Island is capable of treating 840 m³/day of feed water.

Delivering Superior Engineering
Boustead Salcon’s team of water treatment specialists has engineered water treatment solutions for all types of industrial processes including the sophisticated processes for raw water into pure or ultra-pure water, and the desalination of brackish water or seawater through reverse osmosis. It is our ability to identify, design and implement the optical combination of process knowledge and technology within a tight project footprint and timeframe, that has earned us a reputation of delivering superior engineering.