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Termomeccanica Ecologia

Desalination plant with reverse osmosis **Enel c.le di La Spezia**

The plant produces water with a high degree of purity and treats seawater through reverse osmosis technology.

In addition to traditional treatment, such as mechanical filtration and through sand/anthracite filters, the reverse osmosis section is completed with a system of energy recovery with Turbocharger in Super Duplex.



Water treatment

Potabilisation, Desalination and Remineralisation

Desalination plant with reverse osmosis Enel (La Spezia)



- **Name of the plant:**
Seawater desalination plant with reverse osmosis for the production of water for industrial and drinking uses
- **Place of installation:**
Thermoelectric power station of La Spezia (Italy)
- **Client:**
Enel - Centrale Termoelettrica di la Spezia
- **Plant description:**
The process line includes:
 - A) Pre-treatment
 - sodium chloride disinfectant dosage
 - coagulant dosage
 - filtration with continuous sand filters
 - pressure filtration through sand/anthracite filters
 - tank for accumulation of filtered water
 - UV light sterilisation
 - B) Osmosis
 - mechanical filtration with cartridge filters of 5 micron
 - H.P. centrifugal multi-stage pump with speed control and frequency variation
 - Reverse Osmosis skids.
 - energy recovery system with Turbocharger
 - various chemical dosages
 - membrane washing system
 - C) Control system and instrumentation
- **Scope of the contract:**
 - design, turn-key supply and erection, commissioning, start-up
 - operation and maintenance of the plant for 1 year after the commissioning



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