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Termomeccanica Ecologia

Power station condensate polishing plant

## Montalto di Castro (Grosseto)

The treatment processes are utilised for the purification of the return condensate in such a way so as to meet the quality requirements of high pressure thermal cycles and to minimise the consumption of feed-up water.

The condensate treatment plant is aimed principally at the removal of:

- Iron, copper and nickel oxides
- Dissolved salts
- Contamination from the presence of oil



Water treatment

Industrial Plants and Ion Exchange

## Power station condensate polishing plant Di Montalto di Castro (Grosseto)



- **Name of the plant:**  
Condensate polishing plant for Group 3 and 4 water heating circuits of ENEL Power station Montalto di Castro
- **Place of installation:**  
Montalto di Castro, Grosseto (Italy)
- **Client:**  
ENEL
- **Plant description:**  
Treatment lines with ion exchange resins, with triple stratum mixed beds for high pressure Boiler circuits (38 ÷ 40 Barg.)
- **The plant includes:**
  - nr. 3 mixed bed units
  - external resin regeneration unit for cationic and anionic resins
  - systems of preparation, storage and dosage of reactive acids and soda for resin regeneration
  - systems of automation and distribution of electrical energy
- **Plant flow:**  
3 lines x 870 m<sup>3</sup>/h each
- **Scope of the contract:**
  - general and detailed design
  - supply of all the electromechanical components, instrumentation and remote control system
  - electromechanical erection on site
  - commissioning and start-up
  - training of the personnel



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