



**TM.E. S.p.A**  
Termomeccanica Ecologia

## Power station condensate polishing plant **Sulcis (Cagliari)**

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*



- **Name of the plant:**  
Condensate polishing plant for Group 1 and 2 Boiler circuits of ENEL Power station Sulcis
- **Place of installation:**  
Sulcis,(Cagliari)
- **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



T.M.E. S.p.A. - Termomeccanica Ecologia

Registered office: Via Lodovico Mancini, 5 - 20129 Milano - Italy  
Head office: Via del Molo, 3 - I9126 La Spezia - Italy  
Tel. +39.0187.5521 - Fax +39.0187.552215  
www.termomeccanica.com • e-mail: box8@termomeccanica.com