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Power station condensate polishing plant **Turbigo (Varese)**

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 circuit of ENEL Power station
Turbigo Levante
- **Place of installation:**
Turbigo, Varese (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. 2 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:**
2 lines x 850 m³/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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