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Power station condensate polishing plant **Vado Ligure (Savona)**

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 Vado Ligure (Savona)



- **Name of the plant:**
Condensate polishing system. Revamping following repowering
- **Place of installation:**
Vado Ligure, Savona (Italy)
- **Client:**
ANSALDO ENERGIA spa
- **Final cliente :**
TIRRENO POWER spa
- **Plant description:**
The revamping intervention was made necessary following the transformation of the power station into a combined cycle one. The treatment includes mechanical filtration through two filters and self-washing cartridges, two mixed beds and an external regeneration system constituted of a cationic unit, an anionic unit and reactive agent storage tanks.
- **Plant flow:**
740 m³/h in normal operation
1,043 m³/h in normal operation
conductibility of the product: 0.15 micro S/cm
pressure: 38 barg
- **Scope of the contract:**
 - general and detailed design
 - inspection of existing unit and rehabilitation
 - supply of all the electromechanical , instrumental and remote control equipment
 - electromechanical erection on site
 - commissioning e start-up
 - training of the personnel
 - spare parts



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