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Termomeccanica Ecologia

Waste water treatment plant

Rosignano Marittima (Li)

The plant allows the treatment of flows coming from the wastewater plants of Rosignano and Cecina and makes the discharge water suitable to be utilised for industrial uses by Solvay Italia which represents the final user. The treatment is aimed particularly at the elimination of suspended solids, COD and surface-active agents.

Commencement date: January 2003
Delivery date: November 2007



Water treatment

Treatment of Civil and Industrial Waste Water

Waste water treatment plant Rosignano Marittima (Li)



- **Name of the plant:**
Reuse waste water plant for tertiary
- **Place of installation:**
Rosignano Marittima, Livorno (Italy)
- **Client:**
CONSORZIO ARETUSA (Solvay-ASA-TME)
- **Specific data:**
average flow: 660 m³/h
SS upon entrance: 40 mg/l
COD at input: 60 mg/l
surface-active agents: 0,5 mg/l
- **Plant description:**
The treatment cycle is constituted of the sections of equalisation, flocculation with dosages of PAC and polyelectrolyte, clarification with lamella packs, sand filtration, biological filtration with activated carbon (BAC), pressurized filters with activated carbon, disinfection with ultraviolet light, pumping to reuse.
The sludge produced is thickened and dewatered through belt pressure filters.
The outgoing water shows a content of SS < 3 mg/l, COD < 15 mg/l and surface-active agents < 0.2 mg/l.
- **Scope of the contract:**
Treatment plant of the water from the plants of Cecina and Rosignano, destined for reuse in industrial activities.



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