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Termomeccanica Ecologia

Waste water treatment plants

Acerra, Cuma, Foce Regi Lagni, Marcianise, Napoli nord (Campania, Italia)

The concession includes the rehabilitation and completion of the sewage network and of the plants of the 5 districts and their renovation according to the increment in the population and to the respect of the limits of runoff release that are allowed by law.

The plants are organized along two treatments lines, the water line and the sludge line.

The water line includes the sections of gross, medium and fine screening, sand and grit removal, rainwater accumulation basins, biological oxidation (denitrification, nitrification), chemical phosphate removal, secondary sedimentation, filtration, disinfection with UV light.

The sludge line is composed of thickening and dewatering of the sludge. The dehydrated sludge passes through a successive phase of thermal drying before its destination to waste disposal.

The plants are also complete of a new section of cesspool and concentrated waste reception.

Commencement date: 2007

Delivery date: 2022 (date of the end of concession of the Project Financing)



Water treatment

Treatment of Civil and Industrial Waste Water



- **Name of the plant:**
5 Waste water treatment plants
- **Place of installation:**
Acerra, Cuma, Foce Regi Lagni, Marcianise, Napoli nord (Campania)
- **Client:**
Commissary of the Government, Delegated for the waste disposal emergency, cleaning and protection of the waters in the Campania Region
- **Specific data:**
 - population served: 2,500,000 overall inhabitants equivalent
 - average flow: 27,879 cm/h
 - maximum flow: 149,900 cm/h
 - BOD5 at input: 139,225 kg /day
 - nitrogen at input: 21,993 kg/h
 - phosphorus at input: 4,080 kg/day
- **Purpose of the contract:**
 - Concession for the design and realisation of the integration and functional renovation of the sewage collection and water purification system for the plants of Acerra, Cuma, Foce Regi Lagni, Marcianise, North Naples as well as the realisation and renovation of the sludge treatment plants and their operation and management for 15 years.



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