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Termomeccanica Ecologia

Waste water treatment plant
Medio Sarno (Na)

The plant is arranged in two treatment lines, the water line and the sludge line. It receives municipal waste water and waste water from the food packing industries.

The treatment process is the active sludge type with anaerobic digestion of the sludge produced.

The plant has the energy recovery of the biogas produced by the anaerobic digestion and the deodorisation of the air extracted from the various sections of treatment.

Commencement date: 1999
Delivery date: 2008



Water treatment

Treatment of Civil and Industrial Waste Water



• **Name of the plant:**

Medio Sarno waste water treatment plant

• **Place of installation:**

Scafati (NA)

• **Client:**

Prefetto of Napoli

• **Plant description:**

The water line is composed of the sections of:

- screening
- sand removal / grit removal
- primary sedimentation
- biological phosphate removal
- denitrification and nitrification
- secondary sedimentation
- filtration
- disinfection with chlorine dioxide

The sludge line is composed of the sections of:

- pre-thickening
- primary and secondary anaerobic digestion
- post-thickening
- dewatering with belt press filters
- thermal drying
- energy recovery of the biogas
- deodorisation

• **Specific data:**

- population served: 360,000 inhabitants equivalent
- average flow: 3,130 cm/h
- maximum flow: 10,405 cm/h
- BOD5 at input : 21,280 kg/day
 - nitrogen at input: 4,320 kg/h
 - phosphorus at input: 246 kg/h

• **Scope of the contract:**

- Construction of the purification plant for municipal and industrial waste water in the Middle Sarno Hydrographic Basin, the towns of Scafati and St. Antonio Abate and relative operation and management.



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