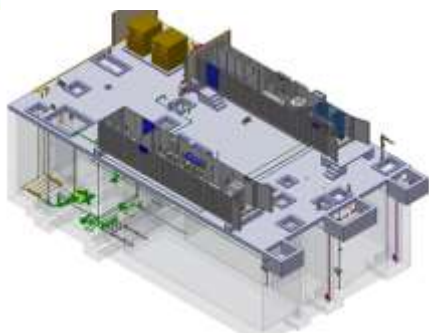


CASE STUDY



COMPLETE PACKAGED LEACHATE TREATMENT PLANT FOR THE SOLID WASTE FACILITY OF EPIRUS MUNICIPALITY

DEVISE ENGINEERING S.A. designed, constructed and commissioned in 2019 a complete Packaged Leachate Treatment Plant for the **leachates originating from an MBT (Mechanical Biological Treatment Facility)** in the prefecture of Epirus, which was built by the contracting company TERNA ENERGY.

The scope of the works of DEVISE included the **Design & Engineering of the whole Treatment Plant** and the **Supply, Installation and Commissioning of all equipment including the Containerized Cross-Flow UF system**, for the Leachate Treatment Plant coming from the MBT Solid Waste Treatment Facility.

The design capacity of the Treatment Plant is **55 m³/d** and requires to treat up to 504 Kg COD/day and 62,5 Kg NH₄-N/day.

In order to deal with this heavy polluted wastewater arising from this Municipal Solid-Waste Management Facility DEVISE has incorporated an extensive two-stage biological process, using MBR philosophy where the separation of the 'bio-solids' was achieved using **DEVISE's advanced system (exMBR), incorporating cross-flow tubular UF membranes**. The UF membrane modules complete with feed and recycling pumps, auto-mechanical pre-filter, CIP system, automation, instrumentation and LMCC were installed in a specially modified 40' ISO container.

The total WWTP was designed by DEVISE which also supplied the Containerized exMBR Unit, achieving the effluent quality required by the client (COD < 1300 mg/l – BOD < 25 mg/l – TN ≤ 45 mg/l, TSS < 5 mg/l).

The facility is currently operating successfully and the Leachate Treatment Plant (LTP) is fully monitored and controlled through an advanced PLC & SCADA system to ensure reliable and efficient operation.



7 Aggelou Pyri Str.,
11527 Athens, Greece
Tel.: +30 210 3211040
Fax: +30 210 3222012
info@devise.gr

