

APPLICATION OF ADVANCED MEMBRANE PROCESSES FOR TREATMENT OF WATER AND VARIOUS EFFLUENTS

Description: Available know-how, laboratory equipment and pilot units for application of Micro-Filtration (MF), Ultra-filtration (UF), Nano-Filtration (NF) and Reverse Osmosis (RO) to the treatment of potable water and of practically all kinds of liquid effluents.

Applications / Novel Characteristics

- Improvement of potable water quality. Removal of all types of toxic substances (heavy metals, pesticides, nitrates, etc.).
- Treatment of industrial effluents for useful materials recovery and water reuse.
- Novel processes (based on *MBR-Membrane Bio-Reactors*) for municipal effluent treatment and water recycling.

Possible users / Customers

- Industry: Applications to cope with all types of effluents (chemical industry, food processing, textile plants, etc.).
- Municipal water and sewerage companies and various water treatment SME's.

Examples

- Phosphorus Fertilizers Industry, Greece: Industrial effluents treatment for recovering useful materials and water recycling.



ADVANCED INSTRUMENTED MEMBRANE PROCESSES FOR DRINKING AND INDUSTRIAL WATER
Treatment of municipal and industrial wastewater, desalination of brackish water, and
production of high-purity water for pharmaceutical and electronic applications.



ADVANCED INSTRUMENTED TREATMENT OF WATER SOURCES with chemical
addition for municipal and industrial wastewater, water softening and geothermal fluids from
oil fields.