

### **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.

