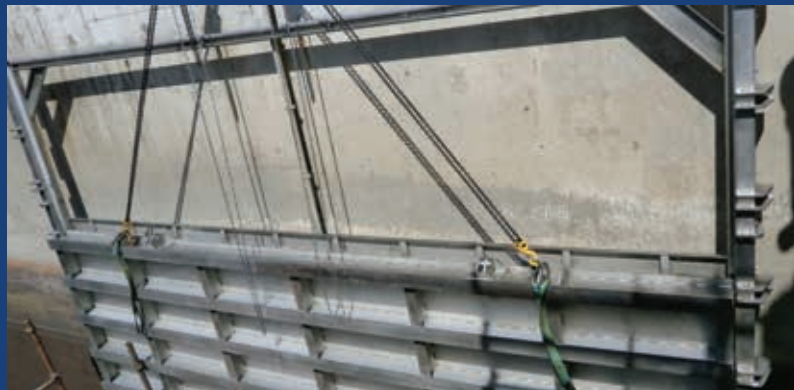


Since 1974

# ECOTECH

WATER AND ENVIRONMENTAL ENGINEERING





# CORPORATE PROFILE

Since 1974, pioneer then, company ECOTECH Ltd, continues steadily its successful course in the sector of wastewater and water treatment.

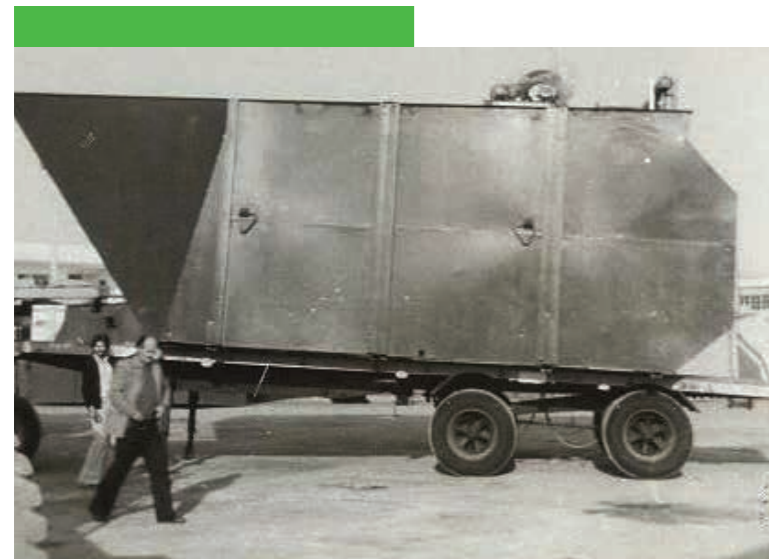
ECOTECH offers a very wide series of products for the above sectors (equipment, systems, complete units) with high quality and with competitive prices. The company also offers integrated services for operation, maintenance, spare parts availability, directions, after sales support and advices.

ECOTECH has created and is continuously improving the company's own know-how in the sectors of equipment design and manufacture and gives solutions in difficult cases and designs special systems wherever is required using innovative methods and techniques.

ECOTECH observes international technology developments and participates in special EU programs. ECOTECH's personnel has complete conscience concerning the priorities that are imposed due to the unfavourable quality prospect of our planet ecosystem.

Both the founders and the people who run today and staffing the company are engineers of various specialties and undergoing training in specialized areas of activity in wastewater and water treatment. The technical personnel (plumbers, electricians, etc) is exceptionally experienced and specialised in order to provide services of high quality.

ECOTECH's equipment has been installed in lot of projects for the Public Sector while some parts of them have been constructed by its technical staff. As far as private funded projects are concerned ECOTECH's customers amount in hundreds.



Compact WWTP, 1975



Factory in Patras, Greece

# ECOTECH ACTIVITIES COVER MANY FIELDS OF WASTEWATER AND WATER TREATMENT, LIKE:

- WWTP Design as well as special systems and applications.
- Equipment design and construction, such as: compact pre-treatment systems, self-cleaning screens (bar, curved bar), rotary drum screens, pendulum grit & grease removal scraper bridges, grit classifiers, surface aerators, half bridge scrapers, picket fence scrapers, screw conveyors, penstocks, weirs, etc.
- Equipment supply made by foreign houses represented in Greece by ECOTECH, such as: dosing pumps, diffusers, belt filter presses, blowers, macerators, filters, softeners, etc
- Electromechanical or/and Civil works. "Turn-key" constructions.
- Operation and Maintenance – After Sales Service. Full coverage of every operating plant(s). Instructions to the operating and maintenance staff, as well as detailed training and operation and maintenance manuals are provided after the construction of every plant in order no detail is forgotten.
- Equipment repairing and maintenance works.



Wall mounted / Channel Penstock



Stable / Floating Surface Aerator



ECOTECH'S MAIN OBJECT IS  
WASTEWATER AND WATER  
TREATMENT.



WWTP in Megara, Greece

**THIS WAY THE COMPANY CAN ENSURE EFFECTIVENESS IN THE FOLLOWING FIELDS:**

### Domestic Wastewater Treatment

Sewage coming from towns, villages, residential areas, hotels, camping and other places where human activities are involved (offices, schools, conference centres, airports etc).

### Industrial Wastewater Treatment from industries, such as:

Paper mills, metal plating industries, tanneries, dye-finishing, paint, detergent, cosmetics, wood treatment, marble treatment factories, food industries, agricultural industries, pig farms, cattle farms, etc.

### Petroleum Wastewater Treatment

Refineries, fuel and oil depot stations.

### Toxic and Contaminating Wastewater Treatment

Chemical, acidic, alkaline, heavy metals, hospital wastewater (radioactive, pestiferous, laboratorial etc.).

### Odor Control

Deodorisation of odorous gases produced during wastewater treatment using biological (biofilters), physical (activated carbon filters) and chemical (scrubbers) methods.

### Water Treatment

Water treatment for potable and industrial uses with filtration, disinfection, softening, deionization, reverse osmosis, heavy metal removal using physical chemical or biological methods.

### Rendering

Recycling and exploitation of various byproducts coming from waste treatment, sludge and plant byproducts composting, compaction and dehydration for forage production.

## EQUIPMENT MANUFACTURED OR DISTRIBUTED BY ECOTECH

### A. Wastewater Treatment

#### 1. Screens - Rotosieves

- > Screens
- > Self-cleaning Screens
- > Self-cleaning Rotosieves
- > Slurry Separators

#### 2. Penstocks - Weirs

- > Penstocks Motorized - Hand driven
- > Weirs Motorized - Hand driven
- > V-notch Weirs

#### 3. Blowers - Diffusers

- > Lobe Blowers
- > Side-channel Blowers
- > Coarse, Fine Bubble Diffusers

#### 4. Surface Aerators - Agitators

- > Low-Speed with Turbine-Type propellers or Open Type (Stable or Floating) Surface Aerators
- > High-Speed Floating Surface Aerators
- > High Speed - Low Speed Agitators (Propeller, Turbine, Paddle etc.)

#### 5. Dosing Systems

- > Metering Pumps (Membrane, Plunger, Electromagnetic etc.)
- > Polyelectrolyte/Chemical Preparation Units

#### 6. Scrapers

- > Scrapers (Bridges) of Settling Tanks
- > Scrapers of Thickening Tanks (Picket Fence)
- > Travelling Bridge Scrapers for Grit And Grease Removal
- > Chain Scrapers for Rectangular Tanks



Compact Pretreatment Unit



Diffuser Network



Polyelectrolyte Preparation Unit



Compact Pretreatment Unit



Sand Filters



Compact MBBR Unit

## 7. Sludge Dewatering

- > Sludge Dewatering Screws
- > Belt filter Presses
- > Filter Presses

## 8. Measuring Equipment

- > pH meters, DO meters, Flow meters etc.

## 9. Specialized Products – Units & Applications

- > Flotation (Dissolved Air Flotation, Induced Air Flotation)
- > Tilted Plate Separators
- > Grit Classifiers
- > Grease Collectors
- > pH Correction Units
- > UV Disinfection Systems

## B. Water Treatment

- > Softeners
- > De-ionizers
- > Sand Filters
- > Activated Carbon Filters
- > Filters made of plastic, steel etc.
- > Reverse Osmosis Equipment

### Note

Due to the fact that it was impossible to include the full range of our products in the current catalogue, it is suggested for further information or any other inquiries regarding water & wastewater treatment to contact ECOTECH Ltd

# KNOW-HOW

During its long-lasting presence ECOTECH developed its own know-how regarding design and construction of complete units as well as in equipment design, manufacture and application of special systems.

### Bases of expertise are:

- The enormous record ECOTECH keeps which contains all executed projects since 1970s.
- ECOTECH's well informed library
- Company's complete series of as built drawings.
- The long-lasting operational monitoring of WWTPs and installed equipment as well as the recording of chemical analysis results.

### Human Resources, Expertise & Experience in large projects.

ECOTECH's staff understands Greek reality very well along with its particularities. They are familiar with the data on which WWTP design is based, the construction philosophy, the operation conditions and the problems WWTPs face.

In ECOTECH WWTP design starts from the right management of waste production so as to accept the minimum possible wastewater.

Choosing the proper type of WWTP is not only based on wastewater quantity and characteristics but also on the way that waste is produced, the allocated space, the way and location for treated wastewater is disposed, the quantity, treatment and disposal of produced sludge, etc.

Deciding between installing a conventional unit with concrete tanks or a compact unit is based on various factors such as the ones mentioned above.

Whether a unit should use conventional methods or new ones such as moving bed or membranes must be decided after considering thoroughly the factors above as well as the true particular needs.

ECOTECH is the pioneer company in Greece for very small compact WWTP design and manufacture for residential purposes as well as for small and medium sized units for sewage or industrial wastewater.

These units are manufactured based on conventional methods (extended aeration) or on new methods like moving bed and membranes.

They are usually made of stainless steel assuring very long operational life time which means that the right treating method will work for a really long time.

Furthermore, operational simplicity and minimum possible maintenance are very important factors on which our WWTP design is based.





ISO 9001  
ISO 14001  
OHSAS 18001

**BUREAU VERITAS**  
Certification



**ECOTECH**  
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