

## **COMPANY PROFILE**

















### **Financing**

Thanks to this activity Idro Group provides financing for the construction of its plants, in the form of long-term rental or project financing, aimed at the realization of the same.



### Consulting

G R O U P ≈

The Idro Group offers its consultancy for general and executive projects, for the feasibility study of the plants, for the technical specifications and the coordination of all purchases with technical and commercial supervision on supplies.



The Idro Group offers both extraordinary and scheduled maintenance service, which also includes control analysis.

### **Assistance**

The Idro Group's assistance services include technical assistance in plant management, supervision of installation and start-up, supervision of masonry works, personnel training, repair, refurbishment or extension of existing plants and the supply of products and reagents for water/waste/biomass treatment.







### **NATURAL RESOURCES MANAGEMENT**

**IDRO Group** intends to establish it self more and more as a reference point in the field of treatment of natural resources (water, air, energy), with the precise intent of providing **solutions** at the forefront for the protection of the territory and its resources.

The research activity promoted by the Group is aimed at achieving an **eco-sustainable** future. The corporate policy of the member companies is to provide environmental and regulatory expert solutions, taking the front line.

For this reason, IDRO Group's companies, which have solid experience, are constantly engaged in the research of **innovative** and **cutting-edge technologies**.

The Group intends to provide suitable solutions to any type of customer: from the public to the private sector, to the industrial sector, to governmental and non-governmental bodies, guaranteeing its support also for interventions on already existing plants and ensuring an effective after-sales service.

The group's headquarters itself respects the values of the companies, which aim to create the conditions for an eco-sustainable future: the headquarters building has been designed with a solar panel system that makes it energy self-sufficient and with the use of construction materials with low environmental impact.

# THE IDRO FIELDS OF APPLICATION



## TECHNICAL SOLUTIONS FOR THE ENVIRONMENT

### **PRIMARY WATER**

WELL, RIVER AND LAKE WATER TREATMENT
BRACKISH WATER PURIFICATION
SEAWATER DESALINATION
DEMINERALISATION
SOFTENING OF WATER
INDUSTRIAL WATER TREATMENT

### **TYPES OF PLANTS**

SAND AND CARBON FILTRATION
RESIN FILTRATION
CHEMICAL-PHYSICAL TREATMENTS
LAMELLAR PACKS
ULTRAFILTRATION
REVERSE OSMOSIS
DISINFECTION

### **WASTEWATER**

CIVIL WASTEWATER TREATMENT INDUSTRIAL
WASTEWATER TREATMENT
FIRST RAINFALL WATER TREATMENT
WASTEWATER RECOVERY AND REUSE
RECOVERY AND REUSE OF RAINWATER
GREYWATER RECOVERY AND REUSE BALLAST
WATER TREATMENT

### **TYPES OF PLANTS**

CHEMICAL-PHYSICAL PLANTS
FLOTATORS
OIL AND HYDROCARBON SEPARATORS
FIRST RAINWATER PLANTS
RECOVERY AND REUSE FACILITIES
ACTIVATED SLUDGE PLANTS
SBR BIOLOGICAL PLANTS
MBR BIOLOGICAL PLANTS
MBBR BIOLOGICAL PLANTS
BIO DISC PLANTS
FI FCTROPFRCOI ATOR SYSTEMS







### PRIMARY WATER \*\*\*

### FILTRATION, SOFTENING, DISINFECTION SYSTEMS



### PRIMARY WATER TREATMENT

Idro Group has become more and more specialised in the design and construction of drinking water treatment plants for civil and industrial use.

The technologies used range from softening, filtration, lamellar sedimentation, ultrafiltration, disinfection and reverse osmosis systems for the treatment of salt and brackish water.





### PRIMARY WATER \*\*\*

### **COMPACT&MOBILE SYSTEMS**





### **MOBILE DRINKING WATER INSTALLATIONS**

Mobile installations are designed to produce drinking water in areas with limited and/or contaminated water.

The mobile drinking water treatment units are easy to use and versatile, they can be easily mounted on trailers and moved, making them ideal for emergency intervention (e.g. following natural disasters or in refugee camps).

These same mobile units can be installed permanently or semi-permanently with minimal on-site intervention. This option makes the units ideal for medium or long term water supply systems.

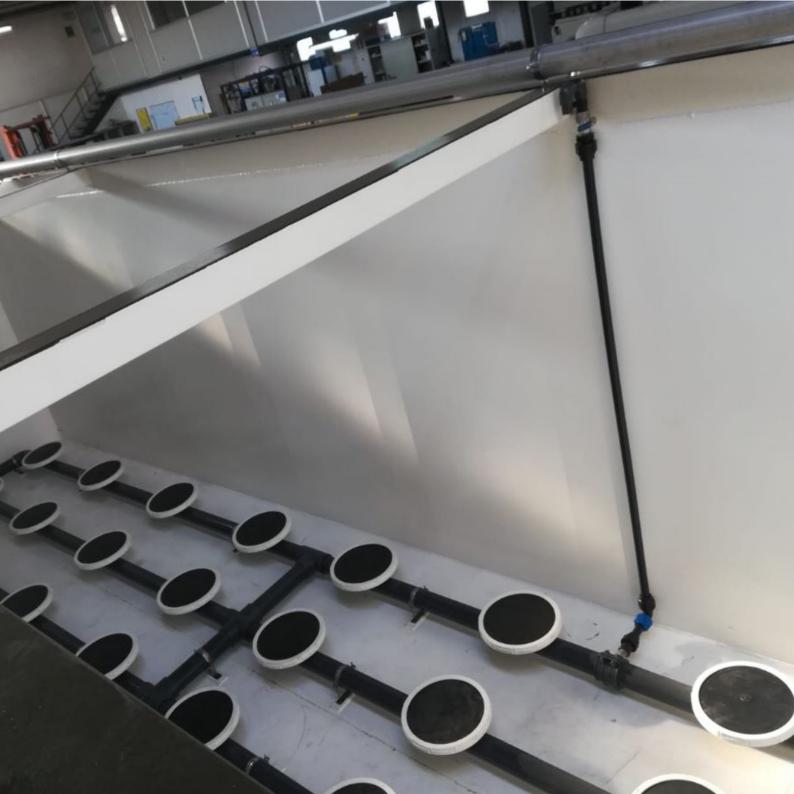


















### **CONTAINER INSTALLATIONS**FOR THE PURIFICATION OF WASTEWATER

For more than 40 years Idro Group has been designing and building civil and industrial wastewater treatment plants using the most modern technologies; total oxidation wastewater treatment plants, Biodiscs, MBBR, MBR, percolator beds, and Physico-chemical treatment techniques are some of the solutions in the product portfolio of Idro Group.











### **CONTAINER INSTALLATIONS**FOR THE PURIFICATION OF WASTEWATER



### **GREEN MBR**

The **GREEN MBR** modular plants are wastewater treatment plants that combine a denitrification, nitrification and oxidation phase with a second ultrafiltration compartment with MBR-type membranes.

The GREEN MBR systems are made in containers and therefore easily transportable and installable. Thanks to the technology used, Membrane Bio-Reactor (MBR), the water produced by the system can be reused (e.g. for irrigation, car washing, fire service).

### **STRENGTHS**

- MODULARITY
- RAPID INSTALLATION
- RAPID DELIVERY TIMES
- EASY TRANSPORT





### CONTAINER INSTALLATIONS FOR THE PURIFICATION OF WASTEWATER

### **GREEN MBBR**

The **GREEN MBBR** plants in containers are easily inserted in the environmental context: the reduction of the volumes needed for the treatment minimises the overall dimensions, and their modularity allows for possible extensions after some time. They can be manufactured in a short time, easily transportable and quick to install.

The architectural layout of the plants has been designed to minimise the overall impact of the works. In fact, projects that include the GREEN MBBR plants require the realisation of small civil works.

### MBBR PROCESS COMBINES ACTIVATED SLUDGE AND ADHESIVE BIOFILM PROCESS TECHNOLOGIES

The plants can be customized according to the characteristics of the wastewater to be treated (hydraulic load and pollutant load).





### **CIVIL AND INDUSTRIAL PLANTS**



#### **WASTEWATER TREATMENT**

The treatment of industrial or civil wastewater, containing high concentrations of grease, oil, hydrocarbons, sludge and suspended solids or, in any case, with high organic or inorganic loads, has always presented considerable problems. In fact, these substances are difficult to separate both with traditional chemical-physical systems and by using biological processes, because they are poorly biodegradable. Traditional systems have various management and maintenance problems, resulting in high costs and poor treatment results. Idro Group can respond to these problems by building water treatment plants with high flexibility technologies.



WATER



### **IDRO REUSE COMPACT PLANTS**



### FOR WASTEWATER RECOVERY

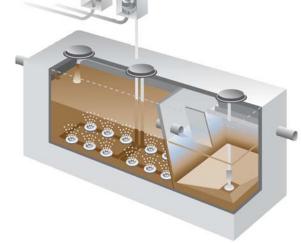
The compact plants for the recovery and reuse of WASTEWATER are tertiary treatment modules made in containers, transportable by land and sea, easy to install, with concrete ancillary works reduced to a minimum. The solution **Idro Reuse** is ideal especially in cases where space is limited, or where there is an existing wastewater treatment plant where reuse is necessary due to water scarcity or high disposal costs (strict limits on wastewater).





## PREMANUFACTURED PLANTS IN REINFORCED CONCRETE, POLYETHYLENE, STEEL

**CIVIL WASTEWATER TREATMENT PLANTS** 

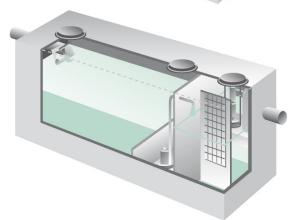


### WATER SYSTEMS FOR FIRST RAINWATER

PLANTS FOR THE RECOVERY AND REUSE OF WASTEWATER, RAINWATER AND GREY WATER

### **APPLICATIONS:**

- CIVIL WASTEWATER TREATMENT
- INDUSTRIAL WASTEWATER TREATMENT
- FIRST RAINFALL WATER TREATMENT
- WASTEWATER RECOVERY AND REUSE
- RECOVERY AND REUSE OF RAINWATER
- · RECOVERY AND REUSE OF GREY WATER
- HYDROCARBON SEPARATORS



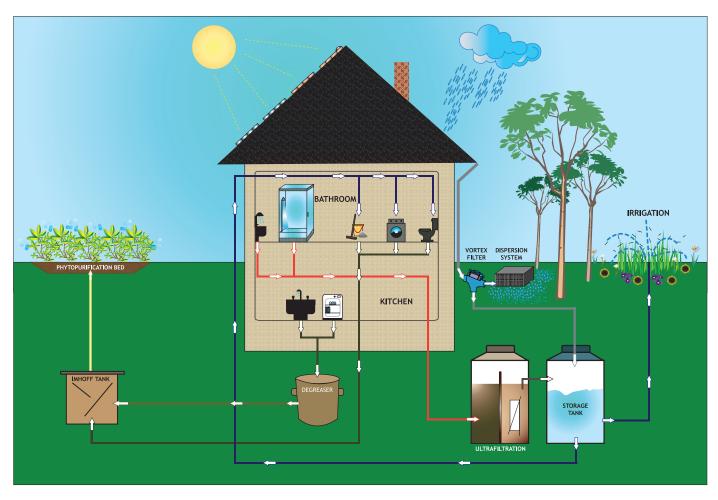


WATER





### THE ECOLOGICAL HOUSE





WATER



### TREATMENT PLANTS BALLAST WATER







### **OUR GOAL:**

MINIMISE AND ULTIMATELY ELIMINATE THE TRANSMIGRATION OF HARMFUL AND PATHOGENIC AQUATIC MICRO-ORGANISMS FROM ONE PART OF THE GLOBE TO ANOTHER

BALLAST SKID BALLAST CO.





### AIR ₩

### **APPLICATIONS | Odour abatement from:**

**AERNET**: Monoblock biofilters for odour reduction

Wastewater treatment plants
Treatment plants for the organic fraction of municipal solid waste
Processing of meat and fish waste
Coffee processing
Tobacco processing
Leather processing
Food processing In general



SCRUBBER + BIOFILTRATION



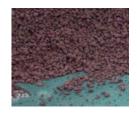
PKA In Steel or Aluminium



PKC I In Cement



BIOMAT MATERIAL VEGETABLE



BIOPOR INERT MATERIAL





### WASTE TO ENERGY 🚓







Idro Group is an Italian company specialised in the design, construction, management and assistance of plants for the production of biogas and biomethane as a renewable energy source from urban, agricultural and agro-industrial waste.

Idro Group provides systems that optimally meet technical, construction and safety requirements by combining automation and ease of management. Recovery and processing **biomass** and composting from:

- Food waste
- Green waste
- Sewage sludge
- Sorted organic waste









## ENERGY FROM NATURE











### **APPLICAZIONI** | Produzione di **BIOMETANO** da:

- Organic waste from separate collection
- Food waste
- Canteen scraps
- Fruit and vegetable residues
- Slaughterhouse waste
- Fish processing residues
- Blood
- Serums
- Slurry and livestock manure
- Poultry dung
- By-products

## WHY CHOOSE A PLANT IDROGROUP

- **✓** TURNKEY SOLUTIONS
- **✓** INNOVATIVE TECHNOLOGIES
- ✓ GUARANTEE OF FUNCTIONALITY
- **✓** MADE IN ITALY













Via Comina, 39 - I - 20831 Seregno - Monza Brianza - Italy P.IVA: 00762220960 - C.F. 03768380150 info@idro.net www.idro.net