

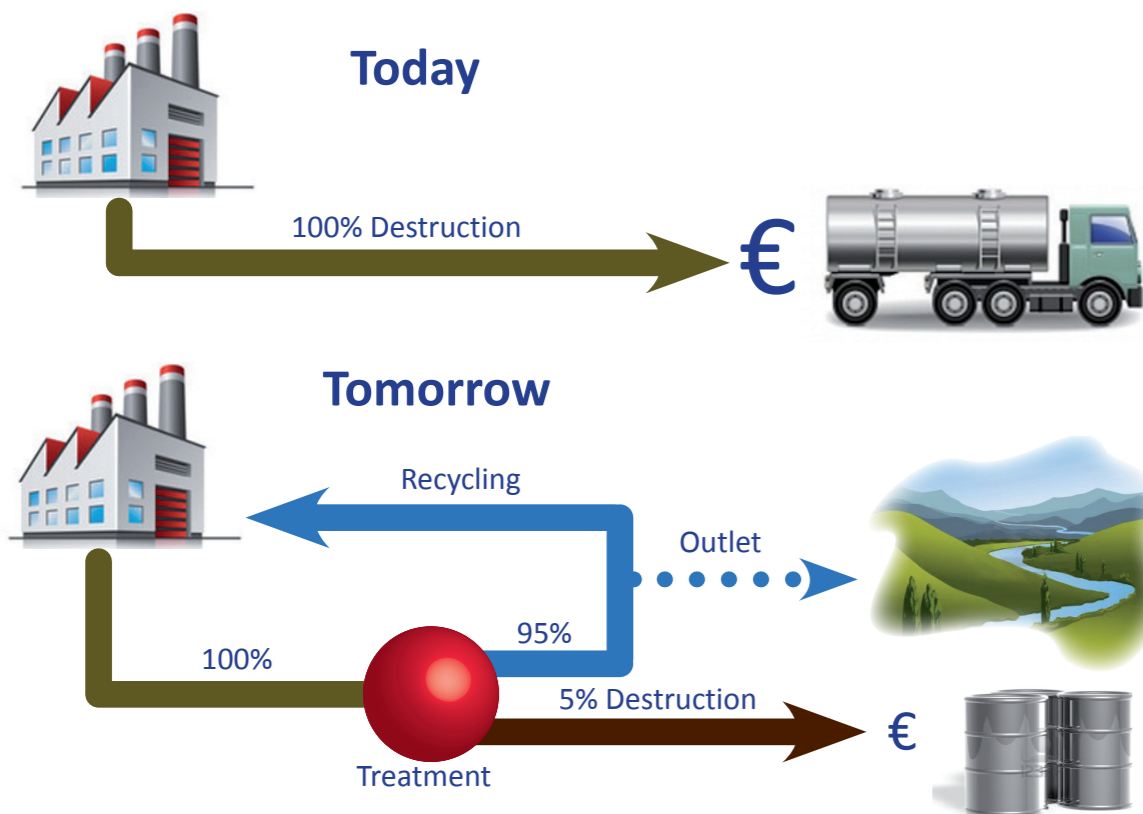
## ABOUT US

**VIVLO** is an independent company born from the desire of a team to create a tool bringing a wide range of technologies for treating industrial waste water.

**VIVLO** has a design office, a laboratory, production units, a team of process, thermo-dynamician, chemical engineers and environment technicians. These abilities ensure to respond specifically to each issue and provide customer satisfaction.



## MAIN ACTIVITY



A team specialized for more than 20 years in the waste water treatment with the main aim focused on the liquid reduction of waste and the destruction costs.

## REFERENCES

France	World
Air Liquide	Saudi Arabia
Arcelor	Belgium
Banque de France	Spain
Bic	Italy
CEA	Switzerland
Leroy Somer	Germany
Lisi Aérospace	Luxembourg
Pilot	
Siemens	
SNCF	
Soitec	
Suez	
Veolia	



## APPLICATIONS

**Mechanical industries**  
*Oil emulsion – Cleaning process*

**Surface treatment**  
*Baths of rinsing - Baths of Chromium-plating - Concentration of acids*

**Waste reception centers – Landfill Center**  
*Leachate, concentrate of reverse osmosis*

**Food-processing industries**  
*Juice of canning factory - Milk - fruit juice*

**Forges – Foundries**  
*Mould dressing*

**Cosmetics**  
*Cleaning of the reactors*

**Printing office - Press**  
*Ink - Cleaning process*

**Photography – Cinema**  
*Developer- Fixative*

**Glass factories - Crystal glass makings**  
*Acids – Cleaning process*

**Nuclear**  
*Radioactive process*

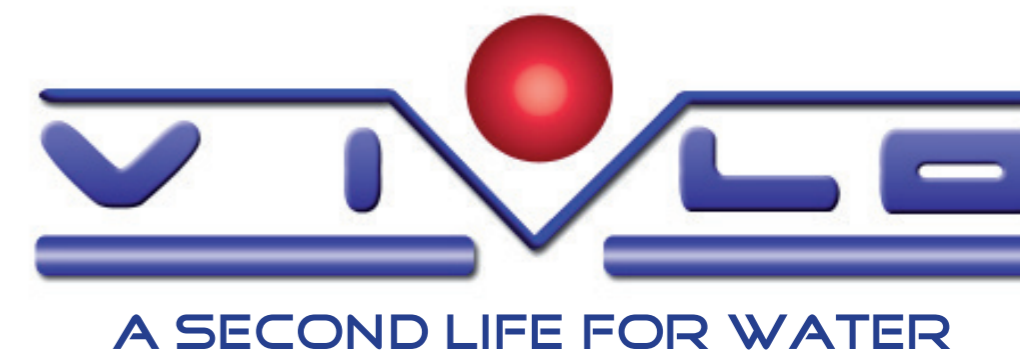
**Environment**  
*Pesticides - Nitrogen*

And any other waste water

**VIVLO**



## WASTE WATER TREATMENT



Evaporator  
Physico chemical treatment  
Biological treatment  
Membrane technology  
Distillator of solvents  
Ion resins exchange  
Activated carbon  
Oil separator

## TREATMENT OF INDUSTRIAL WASTE WATER

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# ZERO REJECT- RECYCLING

## TECHNOLOGIES

**VIVLO** builds and offers a wide range of evaporators and technologies from 7 to 240 000 liters/day on 1 skid, to offer the best treatment solution.

### PAC - Heat pump under vacuum

- *EE* External heat exchanger
- *EI* Internal heat exchanger
- *R* Scraper

### PACB - Heat pump low consumption

#### EC - Hot water or steam

- *M* Simple effect
- *D* Double effect
- *T* Triple effect
- *EE* External heat exchanger
- *EI* Internal heat exchanger
- *R* Scraper

### RMV - Mechanical Vapor Recompression

- *FT* Falling Film
- *CF* Forced Circulation

### SC - On-concentrator

- *Electric*
- *Hot water or steam*

### SE - Dryer

- *Scraper*
- *Static*

# COMPLIANCE

## CUSTOM BUILDING

In the respect of the standards more and more demanding, **VIVLO** suggests solutions adapted to each case.

Different technologies can be implemented independently or combined, as.

- Evaporation
- Physico chemical treatment
- Biological treatment
- Membrane technology (Reverse osmosis, Ultrafiltration, ...)
- Ion resins exchange
- Activated carbon
- Distillation of solvents
- Oil separator

The treatment system is defined according to

- Efficiency
- Invest cost
- Running cost
- Layout

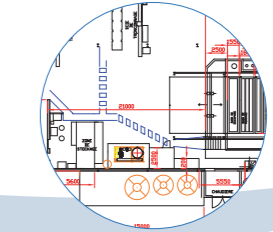
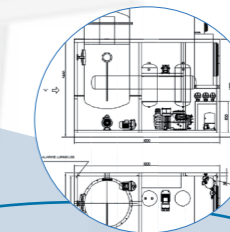
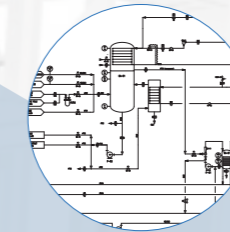
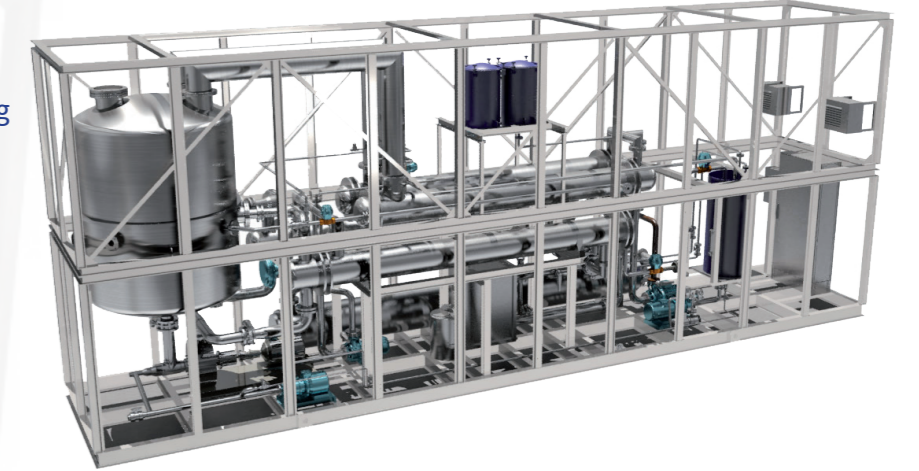
# STUDIES AND SERVICES

## FROM DESIGN TO OPERATING

**VIVLO** designs, manufactures and installs all treatment systems.

A team available with different services

- Feasibility study
- Design & built
- Installation Commissioning
- Training of operators
- Maintenance Contract
- Troubleshooting
- After sales

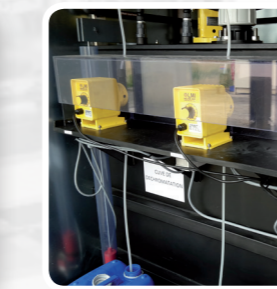


## WARRANTY OF RESULT

Pilot units available from 150 l/d to 48 mc/day, studies and laboratory tests, allow the R & D department to define the appropriate treatment industry. **VIVLO** validates a contractual guarantee of results.



- A - Waste
- B - Clean water
- C - Residue



# REDUCTION OF WASTE WATER AND COST OF DESTRUCTION