



Tecnoimpianti

# TEXTILE WASTEWATER EXPERTS

Effluent Treatment Plants

Color Removal solutions

Ultrafiltration and Reverse Osmosis plants

Exhaust Gas Recovery, CO<sub>2</sub> injection

Technical Water plants

Salt Recovery

Water Recovery and Zero Liquid Discharge (ZLD)



#Providing **Solution**







### • BIOLOGICAL

Apparel and textile industry has been always an important player in the world economy. **Dyeing and finishing process use vast quantities of fresh water and discharges significant volumes of wastewater, but nowadays these activities are more and more under pressure from buyers and competitors.**

In a scene of ever-changing legislation the water cycle of the process houses is a critical point for all the market players and it needs to be approached with maximum attention.

Waste water, water reuse, water reduction, salt recovery, sludge management are arguments which must be taken into consideration for a correct set up of new production sites as well as for upgrading the existing ones.

**TECNOIMPIANTI WATER TREATMENT**, thanks to a skilled team of professionals designers, mechanical and environmental engineers with multi-year experience in the specific sector of the textiles-apparel, supports investors in design, supply, erection and commissioning of infrastructure for the environment protection.

Green field projects, upgrade or enlargement: every single venture needs a specific smart solutions which is unique in its approach.

**TECNOIMPIANTI WATER TREATMENT** provides biological treatment plant with process based on modern design and latest available technologies focused to minimize footprint and operational cost.

Nowadays, **PFR Plug Flow Reactor** have been widely applied in our design with the specific purpose to **reduce Hydraulic Retention Time with saving of capital construction cost and environmental footprint.**

**MBR Membrane Bio Reactor** find a proper allocation where the standard quality required for the treated water is particularly high because specific discharge in sensitive areas or as pretreatment for water recovery.

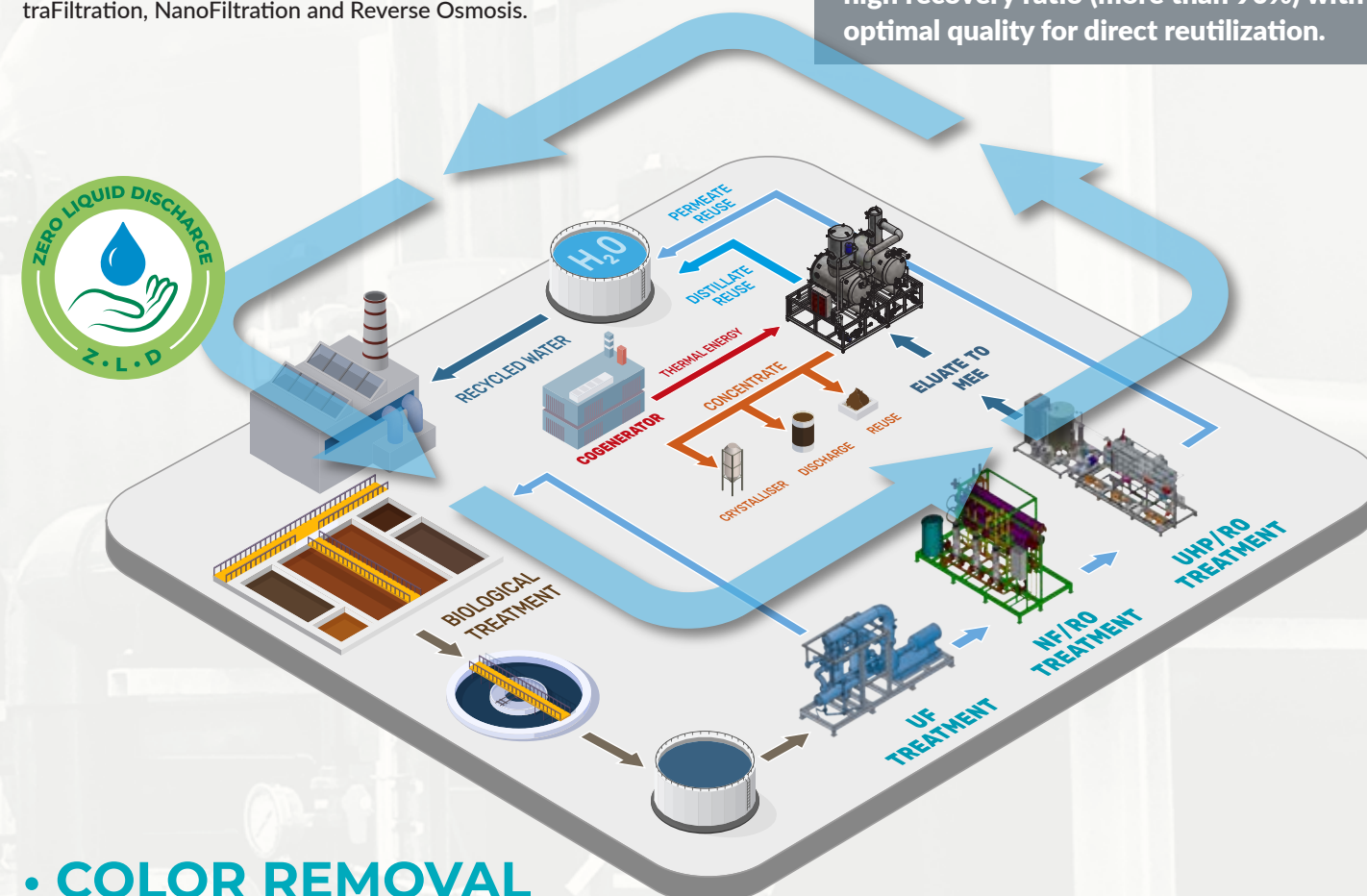
### • WATER RECOVERY & ZLD

Water and soft water are limited resources and the world demand is in growing constantly. This situation obliges to focus on reduction and reuse of this resource by applying correct resource management combined with Best Available Technology.

**TECNOIMPIANTI WATER TREATMENT**, with almost 40 years of experience, offers water recovery solution based on membrane technologies like UltraFiltration, NanoFiltration and Reverse Osmosis.



Our special design permits to reach very high recovery ratio (more than 90%) with optimal quality for direct reutilization.



### • COLOR REMOVAL • SALT RECOVERY

The latest international protection standards for the environment (like ZDHC) are paying more and more attention to the residual color discharged with treated water.

Process design depends on individual production features and target.

Salts are widely used in certain dyeing processes, but it can affects the environment if discharged in high concentration.

Today technologies permit to recover the salts for its reuse in the dyeing houses.

We propose specific solutions for color control based on proven and reliable technologies.

We can support you for the feasibility study focused to identify the best solution starting from pilot plants to real scale installations.

Water Recovery

High Efficiency

Small Footprint



Automation 4.0

Energy Saving

Patented Diffusers





#savewater

#reusewater



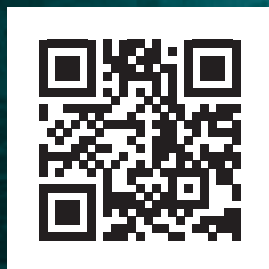
## #ProvidingSolution

This is our philosophy.

TECNOIMPIANTI was founded in 1985 in the province of Milan - Italy, and has installed its solutions all over the world.

**We design and build plants for air and water treatment, and for the recovery of resources from production processes.**

**We have developed considerable expertise in the treatment of wastewater from textile industries, creating tailor-made solutions for the management of those particular effluents.**



**TECNOIMPIANTI WATER TREATMENT S.r.l.**

Via Salvo d'Acquisto, 16/B - 20060 Pozzuolo Martesana (Milan) ITALY

Tel: +39 02 95358203 • Fax: +39 02 95580174

[info@tecnoimp.com](mailto:info@tecnoimp.com)

**tecnoimp.com**