



**TextInOL<sup>®</sup> by  
InnoChem<sup>®</sup>**

**Innovative approaches to textile waste  
valorization**

**Revolutionary technology for the chemical recycling of mixed textile waste**

**[www.textinol.com](http://www.textinol.com)**

# Textile waste

Problem:

Textile waste recycling rate UE:

**<19%**

6.95 million tons generated annually

## Current State



### regulation UE

From 2025, mandatory separate collection of textiles.

Ban on the incineration of recyclable materials..

### Actual disposal costs

€200–350 per ton for energy recovery via termovalorisation

Only pure materials are recyclable, but 60% of cotton is still incinerated.

# Italian Market

1 M

Italian textile waste ton / year

## Growing demand

Growing consumption of apparel

New more strict regulation

## Existing technologies are inadequate

Mechanical recycling is limited to homogeneous materials

Chemical recycling only for single fibers

**No solution for complex mixed fabrics**

# TextInOL<sup>®</sup> solution

Chemical recycling of mixed textile materials without harsh pre-treatments for the production of high-value building blocks and biofuels



Mixed materials



Thermal and electric energy production



Renewable chemicals in-situ

**Patent pending**

# USPs TextInOL



- Mixed textiles (cotton, PET, elastane, viscose, wool)
- No harsh mechanical pre-treatment
- Full integration into existing supply chains

**500 €**

**Revenue per ton of treated waste**

**>70%+**

**Process yield**



# What We Offer



## Technology licenses

Sale of patented know-how and usage licenses with a fee + royalty model for technology implementation



## Plant and products

Turnkey plant supply from 1 to 20 tons/day with customizable capacity and output type



## Services

Support for industrialization, plant management and maintenance, and specialized process consulting

# Roadmap project development TextInOL

Initial technology licenses,  
industrial partnerships, and  
small-scale plants

## commercialization

Q2 2027

Industrial  
scale

Q4 2026

## Pre industrial plant

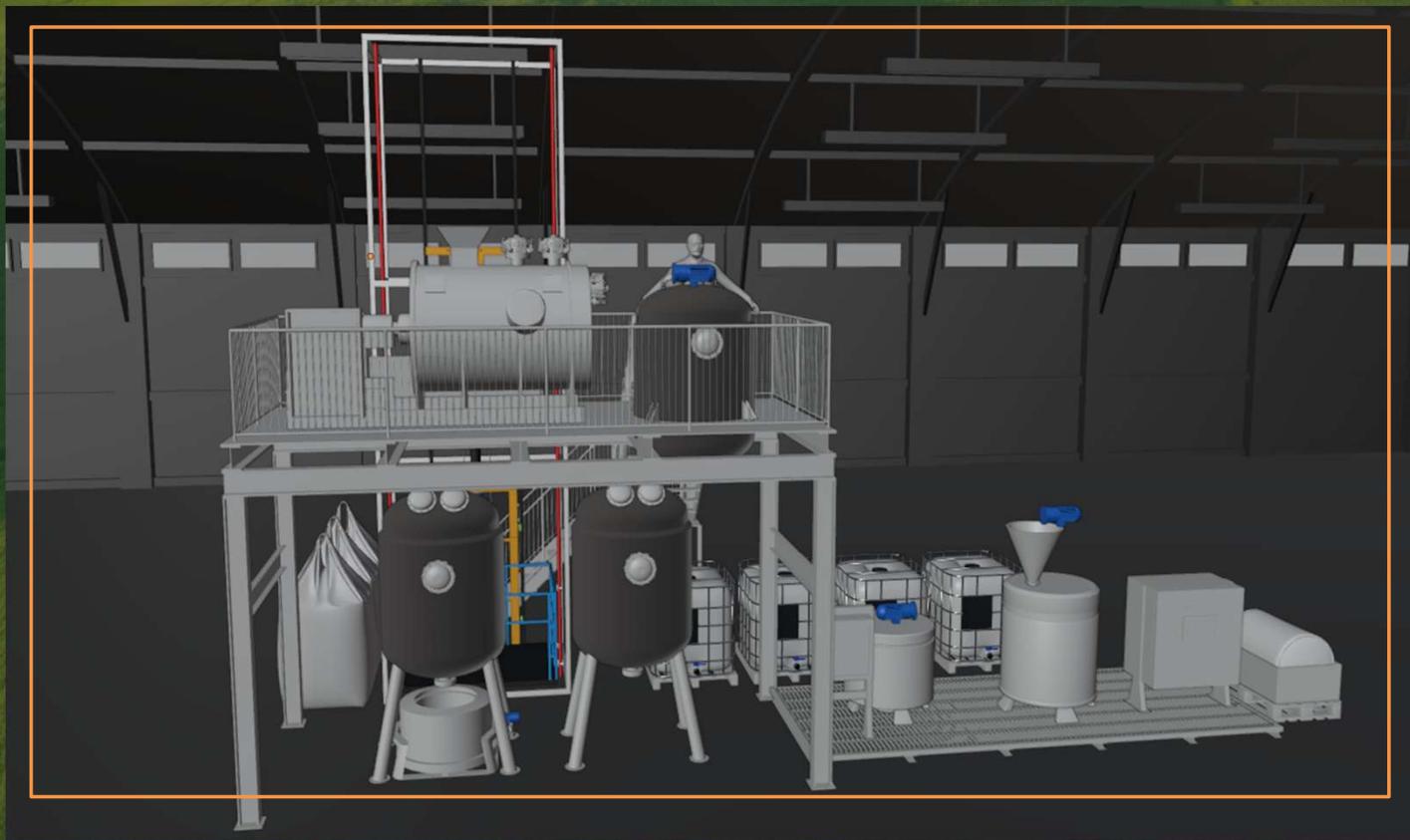
250 kg/semi-continuous installation, real  
feedstock testing, yield optimization

Q4 2025

## R&D

Experimental data validation, patent  
protection, and process validation

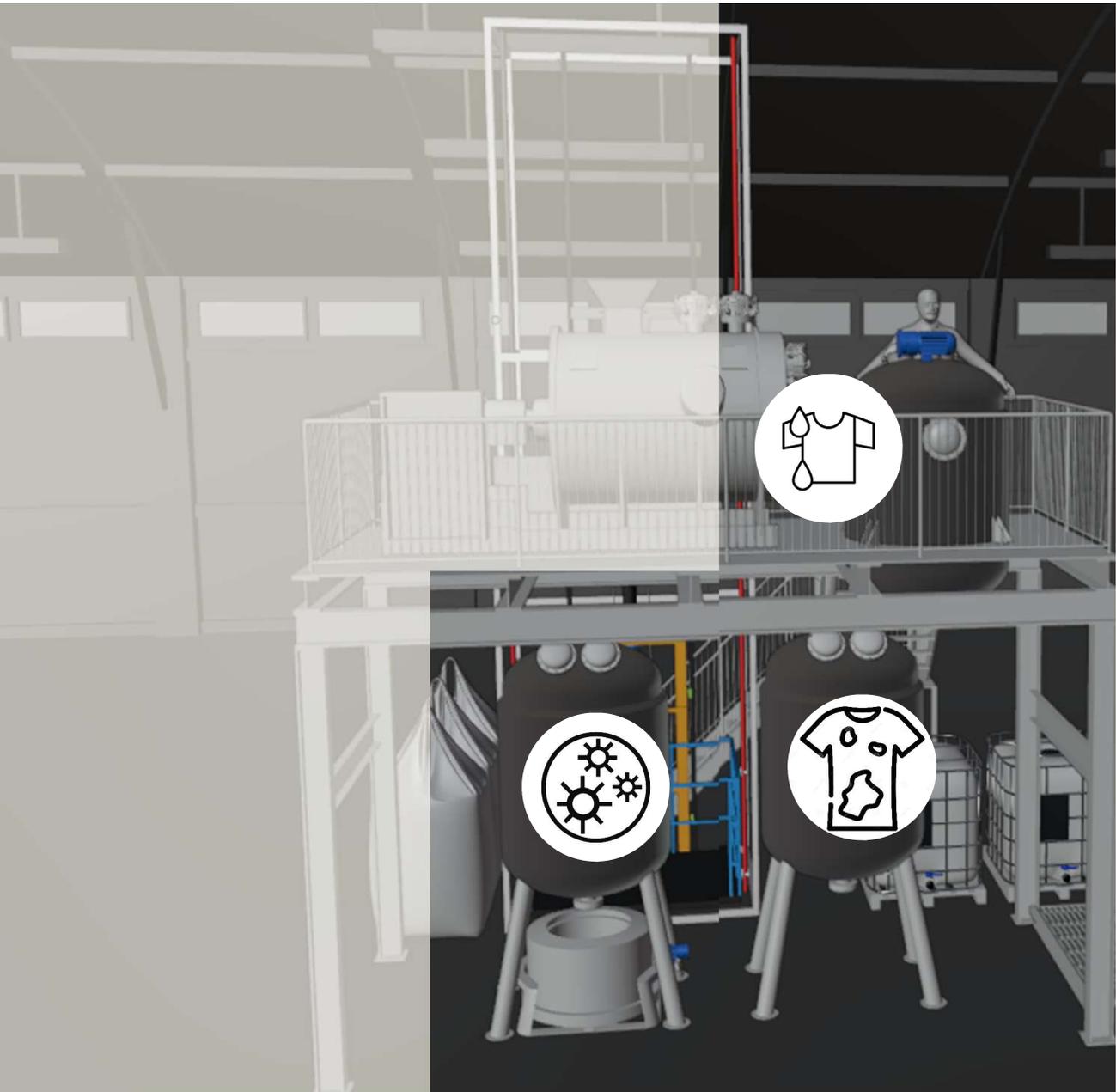
## PLANT Rendering



- SEMICONTINUOUS
- 250 kg/day
- AVAILABLE FROM  
DECEMBER 2026

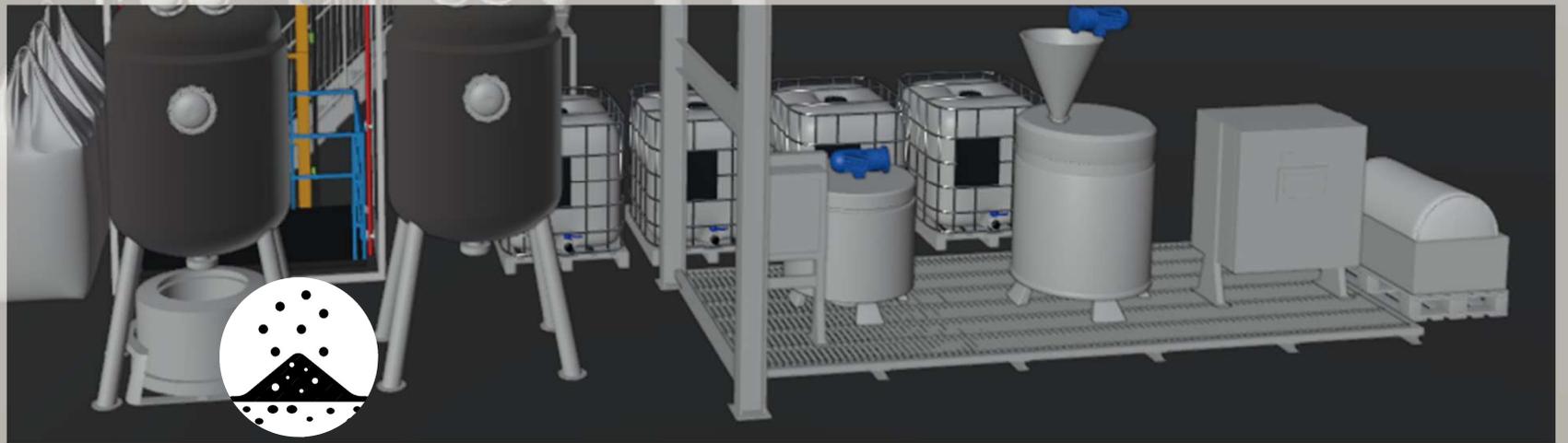


**FIRST STEP:  
chemical  
pretreatment**



**SECOND  
STEP:  
enzymatic  
treatment**

# THIRD PHASE: biofuel production via anaerobic digestion





# **INNOCHEM : What is waste to you is a treasure to us**

Technologies for reducing, recovering, and recycling polymer, textile, solvent, and water materials.

**Modular and  
scalable plants**

**Custom analysis  
and  
optimization**

**Sustainable  
excellence  
approach**



[www.innochem.it](http://www.innochem.it)

Together towards a sustainable future



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