



## SAFE at ecoSTP2025: Presenting Sustainable Water Treatment Solutions in Stockholm

### Description

From **June 23rd to 26th, 2025**, the **SAFE project** was proudly represented at the **7th IWA International Conference on eco-Technologies for Wastewater Treatment (ecoSTP2025)**, held in **Stockholm, Sweden**. Hosted by the **International Water Association (IWA)** in collaboration with **KTH Royal Institute of Technology** and **Mälardalen University**, the event gathered scientists, engineers, and decision-makers from around the world to explore the future of eco-technologies in water management.

This renowned conference is a key meeting point for innovation in **sustainable and circular wastewater treatment**. The 2025 edition focused on actionable solutions to current environmental pressures, highlighting advances in **resource recovery**, **nature-based technologies**, **digital water systems**, and **techno-economic sustainability**—topics closely aligned with the mission of PRIMA-SAFE.



## SAFE Contribution: Techno-Economic Assessment of Biochar Adsorption

During the conference, the SAFE team presented the study:

### “Techno-Economic Assessment of Biochar Adsorption for the Treatment of Surface Water”

This work evaluated the use of **biochar**, a carbon-rich material derived from biomass, as a low-cost,

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sustainable adsorbent for treating surface waters impacted by micropollutants. The study combined laboratory-scale removal data with a **techno-economic assessment**, offering insight into both the **efficacy** and **financial feasibility** of deploying biochar-based systems for decentralized water treatment.

Key aspects included:

- Removal performance for selected pollutants (e.g., pharmaceuticals and trace organics)
  - Estimations of capital and operational costs
  - Applicability in small- to medium-scale treatment facilities
  - Alignment with circular economy strategies and EU sustainability targets
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## A Platform for Knowledge Exchange and Innovation

Participation in **ecoSTP2025** allowed the SAFE project team to connect with leading experts in the field, share its ongoing research, and engage in valuable discussions on **eco-efficient solutions** to water treatment challenges. The presentation sparked interest and dialogue around the potential for **biochar technologies** in both Mediterranean and global contexts.

SAFE's presence at the conference highlighted the project's active role in bridging **experimental science with real-world application**, contributing to the global conversation on how to treat water in more **sustainable, cost-effective, and environmentally responsible ways**.

### Category

1. Senza categoria

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