

## PRESS RELEASE

Västerås, Sweden, 7<sup>th</sup> May 2025

### **SUPREMAS – Syngas modular Units Providing Renewable Energy from Multiple wAstes and for different useS**

The 2<sup>nd</sup> General Assembly of the EU funded SUPREMAS project (website: [www.supremas.eu](http://www.supremas.eu)) took place at the premises of the Mälardalen University (MDU) in Västerås, Sweden, on 7<sup>th</sup> and 8<sup>th</sup> May 2025.



This GA focuses on the activities related to the involvement of stakeholders who will exploit the project outcomes and on the energy communities which will make use of the SUPREMAS modular unit to produce energy from the syngas generated by the gasification of their waste. The participants shared the advancements on the gasifier design, and on the optimisation of the planning tool, which tracks the path from the collection of biomass to the energy supply to the consumer.

The participants had the opportunity to visit the pilot of the biomass Combined Heat and Power (CHP) based on the processes of pyrolysis and gasification, and the laboratories of MDU where research activities on water monitoring, remediation and circularity are ongoing.



*SUPREMAS has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement no. 101160713*



### Project summary

SUPREMAS is a project co-financed by the European Union with the aim of advancing the European technology leadership in bio-energy development, fostering decentralized bio-syngas systems development, and contributing to the energy transition for different use cases. SUPREMAS will develop cost-effective modular and movable syngas production units, particularly suitable to treat sewage sludge, digestate, and the organic fraction of municipal solid waste as well. The environmental sustainability and technical-economic viability of the proposed solutions will be validated through two demonstrators in Spain and Portugal. A deep replicability assessment will be done, and a pre-feasibility analysis developed in 10 further demo sites across all Europe. The project duration is 4 years, from May 2024 to April 2028.





### **Project consortium**

The SUPREMAS consortium consists of 12 organizations from 7 different countries (IT, SE, FR, DE, ES, BE, PT). The multinational engineering consultancy company RINA-C coordinates the consortium, which includes a product design and manufacturing company RESET, wastewater treatment plant and waste Management companies (AE dP, AGROAMB), experts in ICT solutions development for energy management (ARTE), solutions adaptation to help market uptake (ENGREEN, WIP), as well as stakeholders' engagement, also guaranteeing proper dissemination of project results.



The consortium also has academic and research organizations (MDU, CIRCE, CIIAE), Associations (ERGAR), and innovation partners (SEZ), facilitating the exchange of knowledge between complementary forces (academia and companies), which consequently will be reflected in the quality of the developed work.

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