



PRESS RELEASE

Località La Burla, Guardabosone (Italy), 11th November 2025

SUPREMAS – Syngas modular Units Providing Renewable Energy from Multiple wAstes and for different uses

The 1st Replication Workshop of the EU funded SUPREMAS project (website: www.supremas.eu) took place at the energy community of Guardabosone in Italy on 11th November 2025.



The energy community of Guardabosone is located in Valsesia, which is rich in forest residues and maintenance byproducts from riverbanks and woodland management. Instead of being treated as waste, these materials can be transformed into resources — generating electricity, heat, and even cooling at the service of local communities.

The goal of the workshop was to collectively identify viable pathways for the sustainable use of local biomass, fostering synergies among ongoing European initiatives and setting the stage for replicable energy models in similar territories.

The workshop in Guardabosone was organized by EnGreen in collaboration with RINA Consulting, RESET, Steinbeis Europa Zentrum, WIP Renewable Energies and the LIFE MUSE-DHC project, and brought together municipalities, forest consortia, local utilities, and technology providers around one table.



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



Several speakers spoke and provided the participants with an overview of the status quo of thermal energy generation for local communities:

- Luigi Iannitti from RESET focused his presentation on the thermal generation unit developed by RESET to transform biomass into electricity and thermal energy;
- Riccardo Battisti, AmbienteItalia, provided an overview of the MUSE-DHC project;
- Matteo Mazzolini, APE FVG, showed the case study of the City of Gemona generating thermal energy from biomass residues.

The morning session has seen an interactive discussion between the speakers and the participants in order to define how the proposed solutions can be implemented locally in the territory of Valsesia. In the afternoon, participants visited the district heating plant of Quarona.



This workshop is an example of how energy transformation becomes more than a technical process — it becomes a collective mission rooted in the land, shaped by collaboration, and driven by shared responsibility.

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 gas systems development and contributing to the energy transition for different use cases. SUPREMAS develops 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 pre-feasibility analysis developed in 10 further demo sites across all over Europe. The project duration is 4 years, from May 2024 to April 2028.



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Project Consortium

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 product design and manufacturing company RESET, Wastewater Treatment Plant and Waste Management companies (AEdP, AGROAMB), experts in energy management ICT solutions development (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 (academy and companies), which consequently will be reflected in the quality of the developed work.

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