

Enhancing the uptake of biomethane in Europe

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GreenMeUp webinar:

Biomethane market from research
and industry points of view



Funded by
the European Union



GreenMeUp is a Horizon Europe project to facilitate the wider market uptake of biomethane in the EU



Fostering **biomethane production** in Member States with less-developed market rates



Increasing **social acceptance** and awareness through science-based evidence

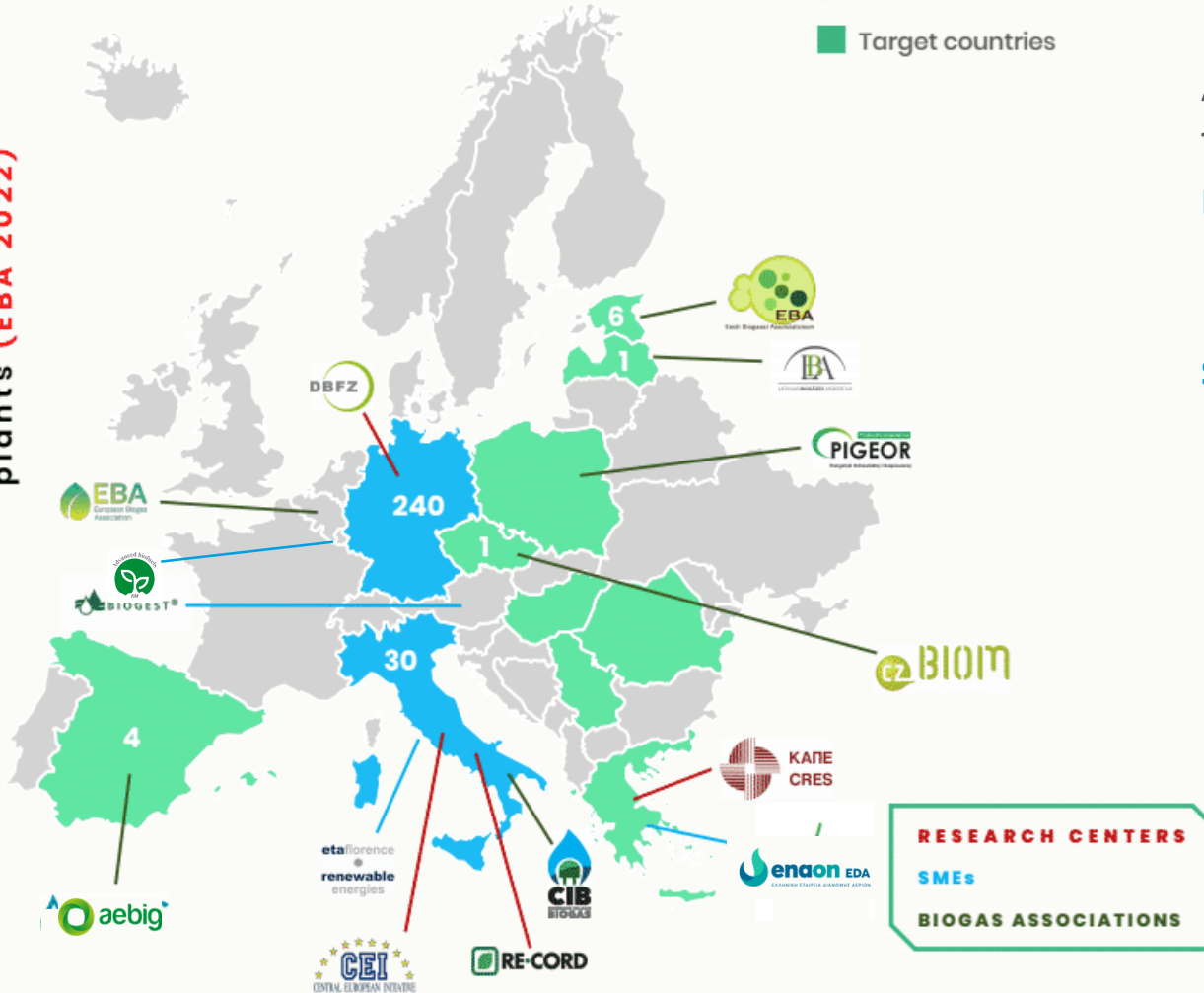


Designing a set of **market uptake** measures for biomethane deployment

Consortium

Number of biomethane plants (EBA 2022)

- Advanced countries
- Target countries



Approach

Aligned in three pillars: **Market, Policy and Society** that run throughout **Geographic and country-relevant specificities in Europe and beyond** (Advanced and Target European countries, Mission Innovation countries), tackling also **innovation and standardization** issues.

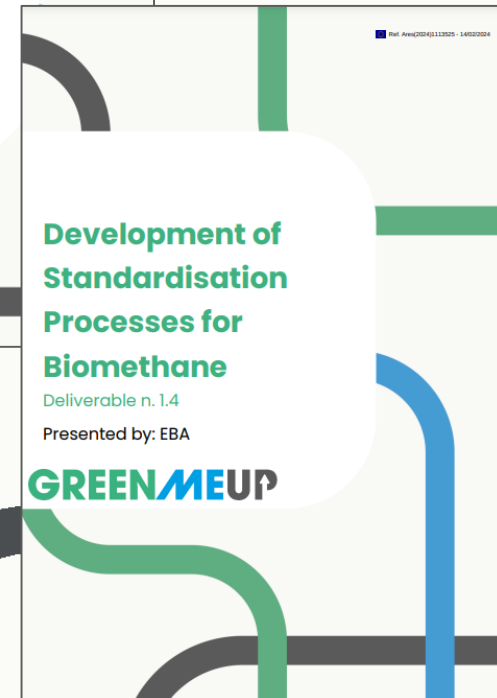
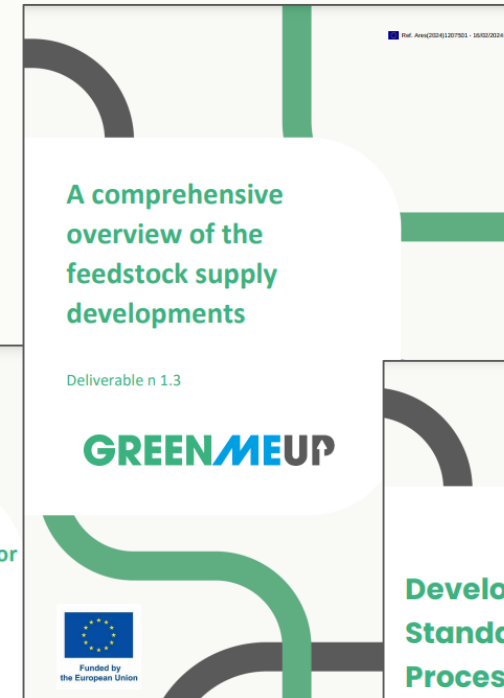
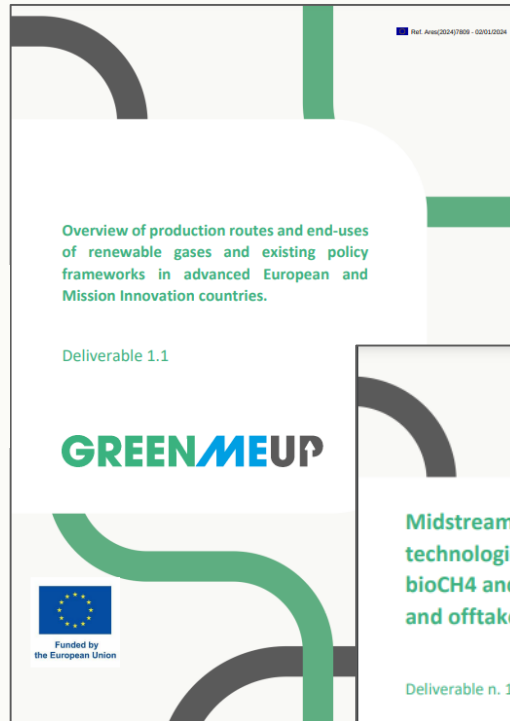


Specific objective 1

To evaluate the framework conditions and market dynamics of the biomethane in 10 of the most advanced in biomethane markets in Europe and Mission Innovation countries.

Outcomes:

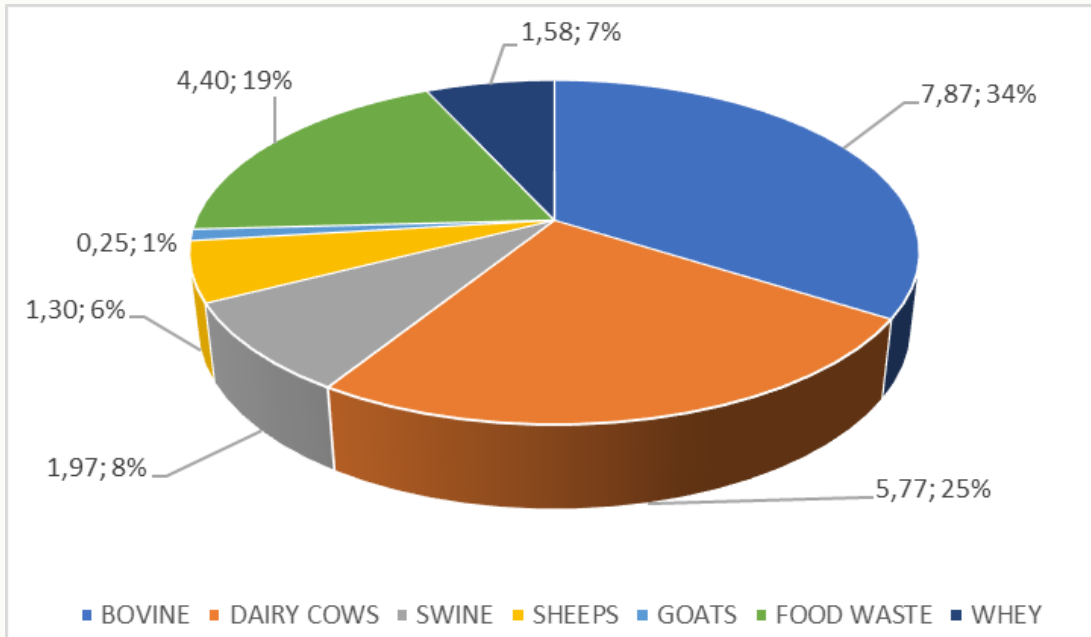
- ✓ Study on the production routes, end uses, feedstocks, policy framework
- ✓ Review of the technological development in midstream/downstream technologies
- ✓ Review on feedstock potentials
- ✓ Review of existing standards for biomethane and hydrogen, ongoing work by the various CEN Technical Committees, Gos
- ✓ Universally applicable indicators for the assessment of biomethane market integration at country-level.



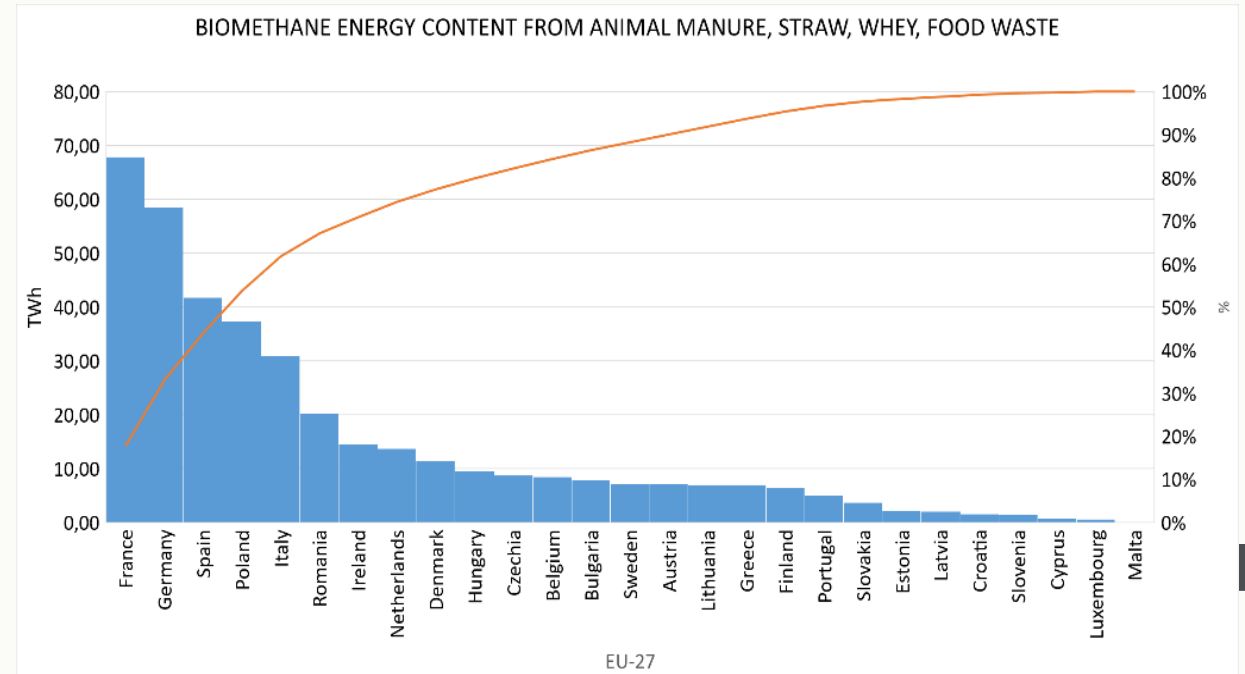
Review on feedstock potentials

Potential biomethane production (in bcm) for the natural gas grid and energy content (TWh/y)

2022	Biomethane production potential bcm/year	Biomethane energy content TWh/y
European Union - 27	39.71	382.89
Animal manure	17.16	165.44
Straw	16.57	159.78
Food waste	5.98	57.67



Feedstock contribution in biomethane production (in bcm)



Biomethane energy content (TWh/y)

Specific objective 2

To evaluate the framework conditions and market dynamics of biomethane production in Target Countries with low market development (Greece, Spain, Poland, Latvia, Estonia, Czech Republic, and the Danube Region)

Outcomes

- ✓ Set-up working teams in each target country
- ✓ Compiled Country reports on production routes, end uses, feedstock, policy framework in 9 countries
- SWOT analyses on going
- Organisation of Business Missions now starting



Specific objective 3

To assure active engagement of stakeholders and societal acceptance with the involvement of actors representing all stages of the biomethane value chains through science-based evidence and tools.

Outcomes

- ✓ Setup of stakeholder hubs
- ✓ Co-creation actions in each Target-Country
- ✓ A World Café' workshop in every country
- Study of societal perspectives related to biomethane

Report on established policy, market and society stakeholder hubs in the 7 target countries.

Deliverable 3.1
Prepared by: DBFZ (Laura García Laverde)

Funded by the European Union



PESTEL Workshop, Czech Republic



Stakeholder Meeting, Czech Republic



Stakeholder Meeting, Greece

Report on co-creation actions in the 7 target countries.

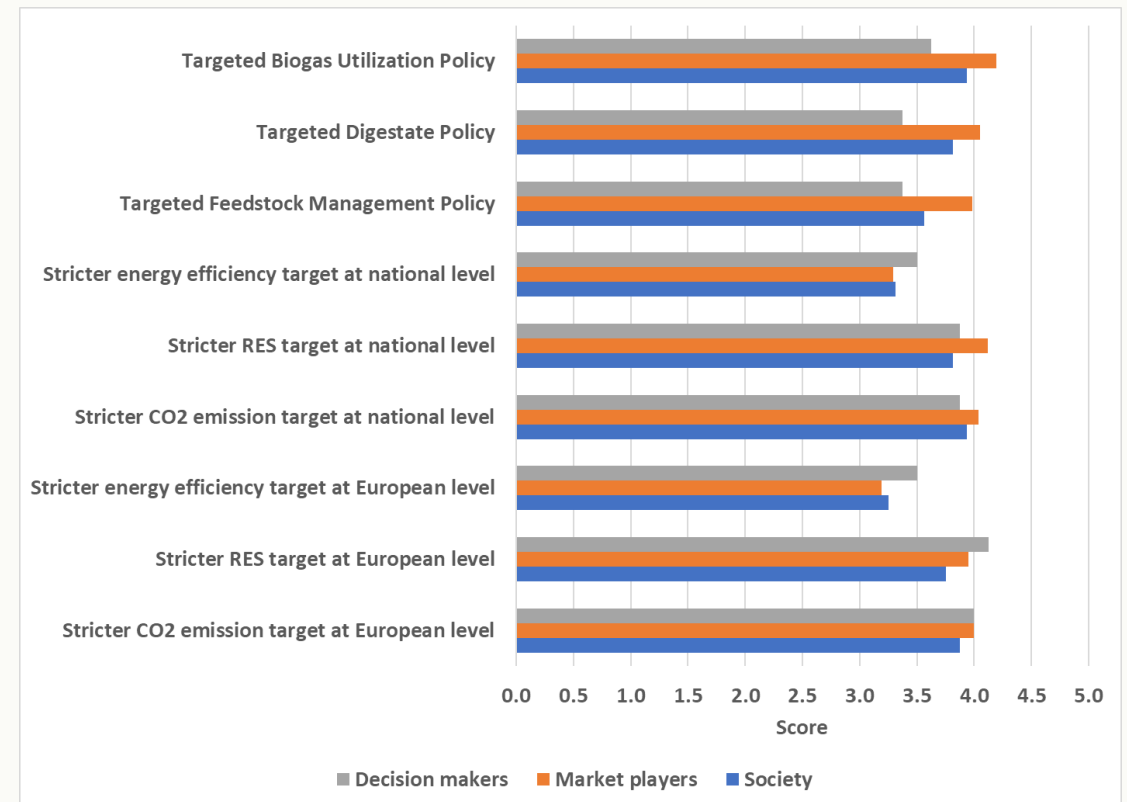
Deliverable 3.2
Prepared by: DBFZ (Laura García Laverde)

Specific objective 4

To design a country-tailored set of market uptake policy measures that will refine, focus and complement existing policy.

Outcomes:

- ✓ Policy briefings for improved market uptake in each target country
- ✓ Market uptake measures at national level in the Target Countries and Europe as a whole



Effectiveness of the various factors/drivers to the biomethane penetration in the examined categories of stakeholders.

Specific objective 4

To design a country-tailored set of market uptake policy measures that will refine, focus and complement existing policy.

Some recommendations

- ✓ Facilitate the use of residues and wastes to ensure sustainable long –term supply.
- ✓ Use of digestate to produce branded agricultural products with a carbon- neutral label.
- ✓ Support commercialization of other innovative upgrading technologies.
- ✓ Enable biomethane injection in distribution, transportation grid and off-grid applications
- ✓ Foster the penetration BioLNG-BioCNG and bioH2
- ✓ Launch financial /regulative instruments to confront the main economic barriers (high investment cost, lack of subsidies, high cost to interconnect small biomethane plants)
- ✓ Establish coordinated policies across agriculture, waste management, energy, transport.



Specific objective 5

To disseminate, communicate and exploit the results

Join us!

GREENMEUP

Policy Workshop

From Policy to Action: Driving Biomethane Market Growth

Policy impulse, and key research and market trajectories for the sector

Hybrid event

Date: Tuesday, 25th of March 2025

Time: 09.30 - 16.00 CET

Location: DBFZ facilities, Leipzig, Germany



PARTNERS



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