

SI Baltic Sea Neighbourhood Programme









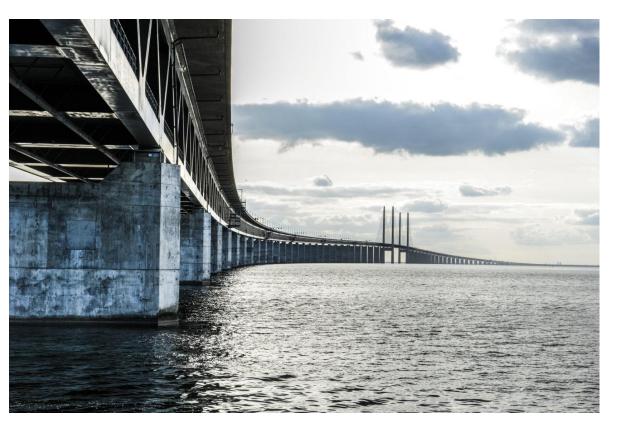
Project "Biogas Partnership: co-creating a pathway to boost biogas solutions in the Baltic Sea Region"

Webinar (workshop 2)

Topic "Challenges, drivers and barriers in biogas sector development in Sweden, Poland and Ukraine"







Cooperation projects

Funding for cooperation projects aims to deepen and further develop cooperation:

- Build networks and platforms
- Develop and test models and methods
- Provide input to policy and strategy
- Build/spread knowledge and competence

The Swedish Institute (SI)

is a public agency that builds interest and trust in Sweden around the world. SI works with Sweden promotion, cooperation in the Baltic Sea region and global development.

https://si.se/en/

SI Baltic Sea Neighbourhood Programme

is a programme which provides funding to projects in which Swedish organisations work on cross-border challenges and opportunities together with organisations from the EU countries around the Baltic Sea and countries in the EU's Eastern Partnership.

https://si.se/en/apply/funding-grants/si-balticsea-neighbourhood/ Funded by

Project "Biogas Partnership: co-creating a pathway to boost biogas solutions in the Baltic Sea Region (BioPart)"

Facts

Project partners

- Linköping University LiU (Sweden)
- Poznan University of Life Sciences PULS (Poland)
- Polish Biomethane Organization PBO (Poland)
- •Sumy State University SUMDU (Ukraine)
- Bioenergy Association of Ukraine UABIO (Ukraine)

Time: October 2024 – December 2025



Workshops (webinars)

- Topic 1 "National potential of biogas and biomethane production in participating countries (Sweden, Poland and Ukraine)" –
 22.11.24 in Warsaw
- Topic 2 "Challenges, drivers and barriers in biogas sector development in Sweden, Poland and Ukraine" – 25.02.25 Online
- Topic 3 "Cross-country collaboration for biogas solutions boosting in the Baltic Sea Region" – 15.04.25 Online
- Topic 4 "Development of digestate biofertilizer market in the Baltic Sea Region" – prel. 30.08.25 Online or in Poznan

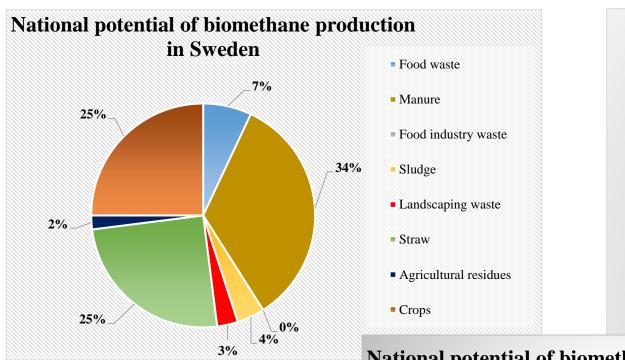
Other activities

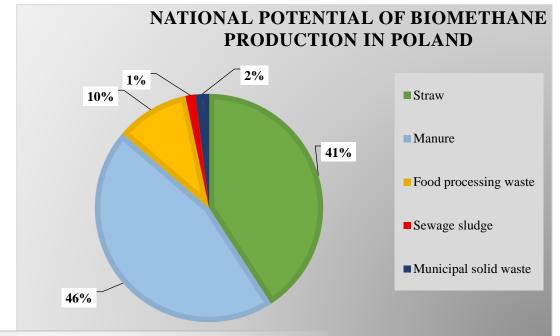
- Project meetings, participation in conferences or Biogas Forums (incl. BSRC Summer conference in June 2025)
- Study visits to biogas plants in Sweden and Poland
- Communication with stakeholders

https://liu.se/en/research/biopart

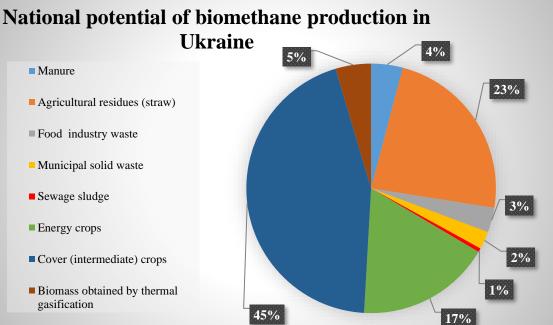


Workshop 1 (results)





Sweden, Poland and Ukraine have different current situation in biogas/biomethane production. Dominated sources for national potential of biomethane production were determined as <u>agricultural</u> <u>residues</u>. Thus, each country has challenges and problems in reaching this potential realistically.



SI Swedish Institute

AGENDA Challenges, drivers and barriers in biogas sector development in Sweden, Poland and Ukraine

Time	Topic	Speakers
13.00-13.15	Welcome and preliminary words	Iryna Ablieieva (LiU)
13.15-13.50	Swedish view on challenges and barriers in	Konrad Smolarczyk (LiU)
	biogas sector	
13.50-14.25	Polish biogas sector development: drivers and	Michał Tarka (PBO)
	barriers	
14.25-14.30	Break	
14.30-15.05	Challenges and drivers for Ukrainian biogas	Yuri Matveev (UABIO)
	sector development	
15.05-15.25	Q&A session and participants outputs	Iryna Ablieieva (LiU) and
		partners
15.25-15.30	Wrap up and conclusion	Iryna Ablieieva (LiU)





SI Swedish Institute

Discussion

"Differences and similarities in biogas sector development in Sweden, Poland and Ukraine"





Challenges/barriers	Sweden	Poland	Ukraine
Policy and Regulation	 Policy Fragmentation. Short-Term Incentives. Complex Regulation. 	 Weak policy framework. Regulatory barriers for biomethane use. Bureaucracy barriers. 	✓ Policy Challenges.✓ Regulatory barriers.
Market and Economics	 Limited profitability. High production costs. Market competition. 	 Unsure financial support for biogas and biomethane production and use. Market competitiveness. 	 ✓ High Initial Investment and Capital Costs. ✓ Market Competition and Energy Prices. ✓ Financing and Investment Risks.
Technological and Infrastructure	 Infrastructure (gas grid) limitations. Site selection challenges Production potential. 	 Lack of modernisation of gas and electricity grids and infrastructure. Technical barriers for gas grid. 	 ✓ Infrastructure for Grid Injection and Distribution. ✓ Logistical and Supply Chain Issues.
Social and Cultural	 Social acceptance of private gas vehicles due to legal and financial regulations. 	 Low public awareness. Low level of knowledge about biogas production. 	 ✓ Public Perception. ✓ Social Acceptance. Funded by Swedis Institute

Drivers for biogas/biomethane sector development in Sweden, Poland and Ukraine

1. Long-term energy and climate policies at EU and country levels, incl. National Plans and EU long-term ambitious GHG targets for 2030 and 2045.

2. Regulatory framework and support systems for biomethane market:

- > Fiscal incentives CO₂ and energy tax exemption
- Production support/premium
- Investment support
- Economic incentives and other regulations for low emission road transport, including biomethane
- > Other policies and regulations with positive effect on the biomethane market.

3. Regulation on sustainability criteria and cross border trade:

- Green gas concept
- RED sustainability criteria
- Biogas registry / Guarantees of Origin for gas.
- 4. Research development in anaerobic digestion (production) system, upgrading.
- 5. Projects aiming to increase public awareness in biogas sector.

