

BIOMETHANE PRODUCTION AND USE IN THE WORLD. DEVELOPMENT OF UKRAINIAN BIOMETHANE SECTOR.

Online training program

24/09/2025 – 26/11/2025

Day 1, 24/9, 15.00 – 17.00	Biogas development in Europe and the world. Global and European outlook (2030/2050 ambitions)	
1	Actual status and prospects of biogases development in Europe	Georgii Geletukha
2	Successful experiences in biomethane development in the world	Yuri Matveev
Day 2, 1/10, 15.00 – 17.00	Biogases development in Ukraine. Actual status and future prospects in Ukrainian agriculture.	
3	Biogas and biomethane in Ukraine – potential, tendencies of development, local and export markets.	Georgii Geletukha
4	Biogas and biomethane as novel part of agriculture, why their development adds additional dimension to agrarian business	Natalia Prozorova
Day 3, 8/10, 15.00 – 17.00	Traditional agricultural feedstock and its logistic for biogas/biomethane production	
5	Utilization of animal breeding waste and plants by-products for biogas and biomethane production, other feedstock sourcing and logistical concepts	Petro Kucheruk
6	Harvesting of crop residues for biogas/biomethane production (collection methods, machinery, logistics, storage, capital expenditures and operating expenses)	Semen Drahnev
Day 4, 15/10, 15.00 – 17.00	New and perspective types of the feedstocks for biogas/biomethane production	
7	The use of sequential crops for biogas and biomethane production, regional aspects and Ukrainian background	Tetiana Zheliezna
8a	Prospects of advanced biogas/biomethane production from lignocellulose materials	Petro Kucheruk
8b	Advanced biogas/biomethane production from micro-algae	Mariana Hyvel
Day 5, 22/10, 15.00 – 17.00	Anaerobic digestion in general	

9	Different types of agricultural biogas plants, digester technology. Feedstock pre-treatment, storage, and feeding systems	Yuri Matveev
10	Digester biology (what happens in the digester, parameters that affect the digestion process, means of monitoring digester health)	Petro Kucheruk
Day 6, 29/10, 15.00 – 17.00	Anaerobic digestion for agriculture	
11	Biogas and biomethane properties. Quality standards and gas composition. Biogas/biomethane plant safety	Volodymyr Kramar
12	Digestate as secondary product of biogas production (nutrient recovery from digestate, digestate field application, spreading technology and soil health)	Petro Kucheruk
Day 7, 5/11, 15.00 – 17.00	Biogas and biomethane utilization options	
13	Heat and power production from biogas and biomethane. Feasibility of biogas generation and use for heat and power production based on needs of electricity market	Yevhen Oliynyk
14	Biogas cleaning and upgrading (CO ₂ removal) technologies - types of technologies, capital expenditures, and operating expenses	Volodymyr Kramar
Day 8, 12/11, 15.00 – 17.00	Biomethane use as NG substitution and motor fuel, economy matters	
15	Biomethane injection into natural gas distribution and transmission systems	Volodymyr Kramar
16	Biomethane mobility, compressed biomethane (bio-CNG), liquefied biomethane (bio-LNG) for road transport and agricultural machinery	Yevhen Oliynyk, Semen Drahnev
Day 9, 19/11, 15.00 – 17.00	Biomethane production certification. Biomethane carbon intensity, regulatory framework	
17	Biomethane production certification and trade with European clients. Carbon intensity and biomethane price in European market.	Volodymyr Kramar
18	Best international legislation practices and Ukraine-specific regulation	Anna Pastukh
Day 10, 26/11, 15.00 – 17.00	Biomethane production feasibility studies. How to start own biomethane project.	
19	Feasibility study as a way to attract project financing	Yevhen Oliynyk

20	Development of business models for biomethane production and use. Feasibility study, how to start.	Petro Kucheruk
	Final test and O&A session	

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