



BIOGAS #HANDS ON
Biogas Online Training with 14 Modules
 Language: ENGLISH




February 04th – 25th, 2025

Tuesday, February 04th

Module 1 – Overview and Predictions for the Biogas Industry for 2030	
10:00	Introduction and collecting initial questions
11:00	Overview of the national and int. biogas industry and its future development
13:00	Discussion – end of the module

Module 2 – Decision Criteria and Feasibility Calculations	
15:00	Decision Criteria for Biogas Plants
16:30	Feasibility Calculations
18:00	Discussion – end of the module

Thursday, February 06th

Module 3 – Technical Plant Design & Equipment Selection	
10:00	Introduction to plant technology – digester design & crucial equipment
11:30	Planning and designing of stirring and mixing technology for digesters, mixing pits and storages
13:00	Discussion – end of the module

Module 4 – Substrate Selection & Waste Treatment Technology	
15:00	Crucial substrate parameters and their impact on plant performance
16:30	Organic waste and fermentation technology – processes and biological stability
18:00	Discussion – end of the module

Tuesday, February 11th

Module 5 – Pre-Treatment of Biogas Substrates & Pump Technology	
10:00	Pre-treatment and storage of biogas substrates
11:30	Pumps and pump technology
13:00	Discussion – end of the module

Module 6 – Theory & Practice of Digester Biology in AD

15:00	Introduction to Digester Biology
16:30	Proper usage of digestate as organic fertilizer in agriculture
18:00	Discussion – end of the module

Thursday, February 13th

Module 7 – Digestate Treatment, Upgrading & Marketing

10:00	Biogas plant start-up – Practical Digester Biology
12:00	Virtual tour through a state of the art biogas & digestate upgrading plant
13:00	Discussion – end of the module

Module 8 – Process Control of Biogas Plants

15:00	Practical Presentation – necessary on site tests and interpretation of operating modes on a biogas plant
16:30	Process control and process optimization (no recordings)
18:00	Discussion – end of the module

Tuesday, February 18th

Module 9 – Building Materials for Biogas Plants	
10:00	Biogas specific building materials for sustainable plant operation (no recordings)
11:30	Process and external heat and gas engineering (no recordings)
13:00	Discussion – end of the module

Module 10 – Safety Features & Monitoring	
15:00	Safety Features of Biogas Plants: Theory & Practice
16:30	Gas measurement for the optimization of the biogas process
18:00	Discussion – end of the module

Thursday, February 20th

Module 11 – Biogas Upgrading, Utilisation & Biomethane Infrastructure	
10:00	Biogas in Germany: current technological status of biogas upgrading
11:30	Gas infrastructure and biogas utilisation to heat and power
13:00	Discussion – end of the module

Module 12 – Green Gas, Bio-LNG & Biomethane Mobility	
15:00	Green Gas and Bio-LNG
16:30	Biomethane as a transport fuel
18:00	Discussion – end of the module

Tuesday, February 25th

Module 13 – Biogas Upgrading Units – Measuring Techn. & Maintenance	
10:00	Measuring technology on biogas upgrading plants – best practices and latest advancements
11:30	Maintenance of biogas upgrading units for sustainable plant operation
13:00	Discussion – end of the module

Module 14 – Q&A-Session	
15:00	Q&A-Session with IBBK’s Biogas Experts
18:00	Discussion – end of the event

All times are in CET (equal to Berlin time)

Program subject to change