



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




February 15th – March 07th, 2024

Thursday, February 15th

Module 1 – Overview and Predictions for the Biogas Industry for 2030	
10:00	Introduction and collecting initial questions <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
11:00	Overview of the national and int. biogas industry and its future development <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
13:00	Discussion – end of the module

Module 2 – Decision Criteria and Feasibility Calculations	
15:00	Decision Criteria for Biogas Plants <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
16:30	Feasibility Calculations <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

Tuesday, February 20th

Module 3 – Technical Plant Design & Equipment Selection

10:00	Introduction to plant technology – digester design & crucial equipment <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
11:30	Planning and designing of stirring and mixing technology for digesters, mixing pits and storages <i>Sebastian WINKLER, Repowering Technik Ost GmbH</i>
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 <i>Gunther PESTA, atres Group</i>
16:30	Organic waste and fermentation technology – processes and biological stability <i>Bernhard NATTERER, Finsterwalder Umwelttechnik GmbH</i>
18:00	Discussion – end of the module

Thursday, February 22nd

Module 5 – Pre-Treatment of Biogas Substrates & Pump Technology

10:00	Pre-treatment and storage of biogas substrates <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
11:30	Pumps and pump technology <i>Peter NEMETH, Pumpenfabrik Wangen GmbH</i>
13:00	Discussion – end of the module

Module 6 – Theory & Practice of Digester Biology in AD

15:00	Introduction to Digester Biology <i>Dr. Johannes KRÜMPEL, University of Hohenheim</i>
16:30	Proper usage of digestate as organic fertilizer in agriculture <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

Tuesday, February 27th

Module 7 – Digestate Treatment, Upgrading & Marketing

10:00	Biogas plant start-up – Practical Digester Biology <i>Birgit PFEIFER, Schaumann BioEnergy Consult GmbH</i>
12:00	Virtual tour through a state of the art biogas & digestate upgrading plant <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
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 <i>Birgit PFEIFER, Schaumann BioEnergy Consult GmbH, Pinneberg, Germany</i>
16:30	Process control and process optimization <i>Melanie HECHT, Schaumann BioEnergy Consult GmbH, Pinneberg, Germany</i>
18:00	Discussion – end of the module

Thursday, February 29th

Module 9 – Building Materials for Biogas Plants	
10:00	Biogas specific building materials for sustainable plant operation <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
11:30	Process and external heat and gas engineering <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
13:00	Discussion – end of the module

Module 10 – Safety Features & Monitoring	
15:00	Safety Features of Biogas Plants: Theory & Practice <i>Michael KOETTNER, IBBK Fachgruppe Biogas GmbH</i>
16:30	Gas measurement for the optimization of the biogas process <i>Martin PENTENRIEDER, Awite Bioenergie GmbH</i>
18:00	Discussion – end of the module

Tuesday, March 05th

Module 11 – Biogas Upgrading, Utilisation & Biomethane Infrastructure	
10:00	Biogas in Germany: current technological status of biogas upgrading <i>Michael BEIL, Fraunhofer IEE</i>
11:30	Gas infrastructure and biogas utilisation to heat and power <i>Johannes GAUSLING, 2G Energietechnik GmbH</i>
13:00	Discussion – end of the module

Module 12 – Green Gas, Bio-LNG & Biomethane Mobility

15:00	Green Gas and Bio-LNG <i>Alexey MOZGOVOY, Hitachi Zosen Inova Biomethan GmbH</i>
16:30	Biomethane as a transport fuel <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

Thursday, March 07th

Module 13 – Biogas Upgrading Units – Measuring Techn. & Maintenance

10:00	Measuring technology on biogas upgrading plants – best practices and latest advancements <i>Torsten HAUG, Union Instruments GmbH</i>
11:30	Maintenance of biogas upgrading units for sustainable plant operation <i>Ulf RICHTER, Richter ECOS GmbH</i>
13:00	Discussion – end of the module

Module 14 – Q&A-Session

15:00	Q&A-Session with IBBK's Biogas Experts <i>Michael KÖTTNER & Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the event

Program subject to change