



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

**May 13<sup>th</sup> – June 05<sup>th</sup>, 2025**

**Tuesday, May 13<sup>th</sup>**

<b>Module 1 – Overview and Predictions for the Biogas Industry for 2030</b>	
10:00	<b>Introduction and collecting initial questions</b> <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
10:30	<b>Overview of the national and int. biogas industry and its future development</b> <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
12:00	<b>Biomethane pricing and support</b> <i>Henning DICKS, agriportance GmbH</i>
13:00	Discussion – end of the module

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

**Thursday, May 15<sup>th</sup>**

<b>Module 3 – Technical Plant Design &amp; Equipment Selection</b>	
10:00	<b>Introduction to plant technology – digester design &amp; crucial equipment</b> <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
11:30	<b>Planning and designing of stirring and mixing technology for digesters, mixing pits and storages</b> <i>Farokh SAHRAEI, Xylem Water Solutions Global Services AB, Sundbyberg, Sweden</i>
13:00	Discussion – end of the module

<b>Module 4 – Substrate Selection &amp; Waste Treatment Technology</b>	
15:00	<b>Crucial substrate parameters and their impact on plant performance</b> <i>Gunther PESTA, atres Group</i>
16:30	<b>Organic waste and fermentation technology – processes and biological stability</b> <i>Bernhard NATTERER, Finsterwalder Umwelttechnik GmbH</i>
18:00	Discussion – end of the module

**Tuesday, May 20<sup>th</sup>**

<b>Module 5 – Pre-Treatment of Biogas Substrates &amp; Pump Technology</b>	
10:00	<b>Pre-treatment and storage of biogas substrates</b> <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
11:30	<b>Pumps and pump technology</b> <i>Coline ARAGON FLORES, Fritz Paulmichl GmbH</i>
13:00	Discussion – end of the module

## Module 6 – Theory & Practice of Digester Biology in AD

15:00	<b>Introduction to Digester Biology</b> <i>Dr. Andreas LEMMER, State institute of Agricultural Engineering and Bioenergy, University of Hohenheim, Germany</i>
16:30	<b>Upgrading and marketing of digestate as organic fertilizer</b> <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

Thursday, May 22<sup>nd</sup>

## Module 7 – Digestate Treatment, Upgrading & Marketing

10:00	<b>Biogas plant start-up – Practical Digester Biology</b> <i>Birgit PFEIFER, Schaumann BioEnergy Consult GmbH</i>
11:30	<b>Virtual tour through a state of the art biogas &amp; digestate upgrading plant</b> <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
12:00	<b>Day to Day tasks &amp; monitoring on a Biogasplant</b> <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
13:00	Discussion – end of the module

## Module 8 – Process Control of Biogas Plants

15:00	<b>Practical Presentation – necessary on site tests and interpretation of operating modes on a biogas plant</b> <i>Birgit PFEIFER, Schaumann BioEnergy Consult GmbH</i>
16:30	<b>Process control and process optimization</b> <i>Angelika KONOLD-SCHÜRLEIN, Phytobiotics GmbH</i>
18:00	Discussion – end of the module

**Tuesday, May 27<sup>th</sup>**

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

<b>Module 10 – Special aspects of Biowaste digestion</b>	
15:00	<b>Biowaste properties, typical biological hazards and safe biowaste reception</b> <i>Gunter PESTA, atres Group</i>
16:30	<b>Technical, operational and personal safety considerations in organic waste digestion</b> <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

**Tuesday, June 03<sup>rd</sup>**

<b>Module 11 – Biogas Upgrading, Utilisation &amp; Biomethane Infrastructure</b>	
10:00	<b>Biogas in Germany: current technological status of biogas upgrading</b> <i>Michael BEIL, Fraunhofer IEE</i>
11:30	<b>Safety Features of Biogas Plants: Theory &amp; Practice</b> <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
13:00	Discussion – end of the module

## Module 12 – Green Gas, Bio-LNG & Gas infrastructure

15:00	<b>Biomethane mobility and biogas desulphurisation</b> <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
16:30	<b>Gas infrastructure and biogas utilisation to heat and power</b> <i>Wolfgang JÖRGER, Kanadevia Inova Schmack GmbH</i>
18:00	Discussion – end of the module

**Thursday, June 05<sup>th</sup>**

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

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

## Module 14 – Q&A-Session

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

*All times are in CET (equal to Berlin time)*

*Program subject to change*