



proBIOGAS #International

Biogas engineering and operating training with field trips

May 02.–11., 2023

Venue: SHMT – Steinbeis House for Management and Technology
Filderhauptstr. 142, 70599 Stuttgart

Tuesday, May 02nd – Practical Plant Engineering	
08:30	Registration
09:00	Welcome to the seminar
09:30	Overview of the national and int. Biogas industry and its future development
10:30	Coffee break
10:45	Introduction into plant technology
12:15	Lunch
13:30	Decision criteria for a biogas plant
15:00	Coffee break
15:15	Planning and designing of stirring and mixing technology for digesters, mixing pits and storages
16:45	Discussion
17:00	End of the day

Wednesday, May 03rd – Practical Plant Engineering	
09:00	Pretreatment and pre-storage technology
10:30	Coffee break
10:45	Biogas specific building materials
12:15	Lunch

13:30	Process and external heat and gas engineering
15:00	Coffee break
15:15	Building a bio-waste and food waste plant
16:45	Discussion
17:00	End of the day

Thursday, May 04th – Visits

08:15	Visit of an agricultural biogas plant with regenerative storage power plant
13:00	Lunch
14:30	Visit of a biological recycling of residues with biogas filling station
18:15	End of the day

Friday, May 05th – Visits

08:15	Visit of a biogas plant with nutrient recovery
12:30	Lunch
15:00	Visit of a biogas plant with a Digestate Humus Project
18:15	End of the day

Monday, May 08th – Practical Digester Biology

09:00	Digester Biology – an introduction
10:30	Coffee break
10:45	Crucial substrate parameters and their impact on plant performance
12:15	Lunch

13:30	Proper usage of digestate as organic fertilizer in agriculture
15:00	Coffee break
15:15	Safety features of biogas plants and equipment
16:45	Discussion
17:00	End of the day

Tuesday, May 09th – Practical Plant Operation

09:00	Calculation exercises for feasibility and process control
10:30	Coffee break
10:45	Pumps and pump technology
12:15	Lunch
13:30	Interactive group and field session – Necessary on site tests and practical interpretation of operating modes on a biogas plant
17:00	End of the day

Wednesday, May 10th – Practical Plant Operation

09:00	Meet the challenge: How to digest fibrous and N-rich feedstocks
10:30	Coffee break
10:45	Process control and process optimization
12:15	Lunch
13:30	Measurement and data recording for optimization, stabilization and enhancement of the biogas process
14:30	Coffee break

14:45	Different research activities at the laboratories of the University of Hohenheim
15:45	Discussion

Thursday, May 11th – Green Gas, Bio-LNG & Biomethane Mobility

09:00	Maintenance of biogas upgrading units for sustainable plant operation
10:30	Coffee break
10:45	CNG and LNG mobility
12:15	Lunch
13:30	Green Gas and Bio-LNG
15:00	Coffee break
15:15	Cogeneration to heat and power – Gas utilisation
16:30	Handout of the certificates and end of the event.

Program is subject to change

In cooperation with:

- the State Institute of Agricultural Engineering and Bioenergy, University of Hohenheim, Stuttgart, Germany
- Akademie Schloss Kirchberg, Kirchberg, Germany

