

Delegation visit to Germany, 8th-13th October 2017

Biogas from biogenic residue and waste matter

Tentative Programme

Sunday, 8th October 2017 (Stuttgart)

Individual arrival, Check-In hotel

Group Dinner in the evening together with representatives of Baden-Wuerttemberg International

Monday, 9th October 2017 (Stuttgart)

08:00 Departure from Hotel and arrival at Baden-Württemberg International

09:00 Kick-off seminar:

Learning from the German experience: Synergistic functioning of Industry, Associations and other stakeholders and support of Legal Framework & Guidelines

- Doing Business in Germany & India
 - Short introduction of the Indian delegates
 - Political and legal framework and funding for the biogas sector in Germany
 - German biogas market - New Trends and Developments
 - Biogas from Agricultural and Municipal waste
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13:00 **Lunch and Networking with German companies**

15:00 Departure

16:30 **Visit to a biogas plant - industrial application for electricity generation and cooling requirements (requested)**

Visit to a company which needs cooling for its production process. Its biogas plant installation with a combined heat and power uses the resulting waste heat to operate an absorption refrigeration system on the company premises.

19:00 Arrival in Stuttgart & Individual Dinner

Tuesday, 10th October 2017 (Stuttgart)

Morning **Visit to State Institute of Agronomy and Bioenergy, University of Hohenheim**
(Landesanstalt für Agrartechnik und Bioenergie, Universität Hohenheim):

Presentation on current research on biogas. The focus is on new developments in the biogas sector, efficiency enhancement, environmental protection, suitable substrates, recycling of nutrients into the material cycle, demand-oriented electricity production, power to gas, production of platform chemicals as a bio-economic approach.

Visit to the Hohenheim Biogas Research Laboratory

Visit to a Biogas CHP plant which uses kitchen waste from canteens & restaurants with electricity output of approx. 200 KW

Afternoon Group Lunch

Afternoon **Visit to a Biogas Research facility** setup by various companies collaborating on the research project

Evening Return to Stuttgart & Individual dinner

Wednesday, 11th October 2017 (Stuttgart)

Departure from Stuttgart

Morning **Visit to Kahlenberg Waste Treatment Association (ZAK)**

(Zweckverband Abfallbehandlung Kahlenberg – ZAK):

Presentation: Waste segregation, visit to a recycling plant

Group Lunch

Afternoon **Visit to the mechanical-biological waste treatment plant at Kahlenberg** which is patented throughout Europe. See the use of the innovative “**Maximum Yield Technology**” **MYT**. Here residual waste is used to recover valuable substances, substitute fuels and minerals as well as biogas for the generation of electricity and district heating.

The former mining-hill converted to a landfill, which has subsequently been transformed into nature paradise & recreation area. Some rare and endangered species of plants and animals have been found in the area.

Visit to / Meeting with the company which has developed the MYT process (t.b.c)

Evening Return to Stuttgart & Individual Dinner

Thursday, 12th October 2017 (Stuttgart-Munich)

Morning Visit to a company in Munich (requested)

The company is a technology leader in the construction of batch biogas plants for energy generation from waste. They offer dry fermentation process and currently hold many patents, which are constantly being supplemented by research and development.

Group Lunch

Afternoon Visit to a biogas plant near Munich (requested)

The plant enables the use of the full potential of organic waste or biomass from municipalities and agriculture, using naturally occurring microorganisms. The fermented material is then composted and processed into a high-quality organic fertilizer.

Evening Free time in the evening for sightseeing / Individual dinner

Stay in Munich OR Return to Stuttgart



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Friday, 13^h October 2017

Morning **Visit to Bioenergy village**

A bio-energy village is a regionally oriented concept for the use of renewable energy sources in rural areas. The system uses biomass from local agriculture and forestry in a biogas power plant to meet the complete energy requirements of a village, such as electricity and district heating.

These villages tend to be self-powered and independent from external grids.

Afternoon **End of programme**



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