

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

Biogas from biogenic residue and waste matter

Tentative Programme

Sunday, 8th October 2017 (Stuttgart)

During the day: Individual arrival, Check-In hotel (Sightseeing-if time permits)
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 (2-3 mins per participant)
- 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
- Bio waste driven cold storage units- concept and technicalities
- Biogas technology in Agriculture - Sustainability, Trends, Practical Examples

13:30 **Lunch and Networking with German companies**

15:00 Departure

16:30 **Visit to Lohwiesenhof - industrial application for electricity generation and cooling requirements**

Lohwiesenhof is a farm which needs cooling for its production process. Its biogas plant installation has an output of 190 kW 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 and environmental protection, suitable substrates, recycling of nutrients into the material cycle, demand-oriented electricity production, power to gas, and production of platform chemicals as a bio-economic approach.

Visit to the Hohenheim Biogas Research Laboratory

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

Afternoon Group Lunch

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

Evening Return to Stuttgart & Individual dinner

Wednesday, 11th October 2017 (Stuttgart)

08:00 Departure form 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. Here one can see the use of the innovative “**Maximum Yield Technology**” MYT where the 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 has been converted to a landfill, which has subsequently been transformed into nature paradise & recreation area. Some rare and endangered species of plants and animals can be seen in the area.

Meeting with the company Wehrle Werk AG which has developed the MYT process:

The company Wehrle Werke AG is a pioneer in the field of energy and environmental technology. They are renowned for installations for cleaning of highly polluted sewage water and construction of plants for mechanical-biological waste treatment, utilising sewage sludge, waste and biomass.

Evening Return to Stuttgart & Individual Dinner

Thursday, 12th October 2017 (Stuttgart-Munich)

Morning **Visit to Schradenbiogas GmbH & Co. KG, Geislingen**

They are one of the leading companies in the biogas sector and have been operating reliable and highly efficient biogas plants for more than a decade. Their plants enable 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.

Group Lunch

Afternoon **Visit to an energy-village in Wildpoldsried**

Wildpoldsried is a bio-energy village in the outskirts of Munich that has been recognized for its exceptional achievements in renewable energy production and in reducing its carbon footprint. It 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. This village is self-powered and independent from external grids.

Evening Free time in the evening for sightseeing / Individual dinner

Stay in Wildpoldsried



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Friday, 13^h October 2017

Morning Visit to the company BEKON GmbH

The company is a global technology leader in the construction of batch biogas plants for energy generation from waste. They offer a dry fermentation process and currently hold many patents, which are constantly being supplemented by research and development. Their aim is to offer the local authorities and waste disposal companies innovative technologies to recycle organic waste back into the cycle of nature. At the same time, the regenerative energy potentials contained in the waste are optimally utilized.

14:00 hrs End of programme and departure to Munich / Munich airport



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