



## INDIA

### DBFZ Research and Project Country Profile Activities & Partners



#### DBFZ Activities

India is a huge market and has big amounts of unused organic residues. Therefore, DBFZ started to assess this potential on the national and regional level. The knowledge about the location and the available quantity of feedstocks permits companies to use the biomass for bioenergy provision. At the same time, DBFZ supports the Indian Biogas Association (IBA) to establish a nation-wide network of actors in the biogas sector.

#### DBFZ R&D and Project Focus

The focus has been laid on potential analyses and biogas technologies. In addition, the use of the organic fraction of household waste for biogas production is highly relevant in the Indian context. In particular, DBFZ has gathered experience in:

- Potential analyses (national and State level) and resource mapping of agricultural residues
- Biomass supply curves for local spots
- Support for biogas utilization

#### DBFZ Future Activities

In the future, DBFZ will continue its activities regarding (State level) resource mapping and local feasibility studies, mainly for biogas applications. Another important activity will be the development of organic waste concepts for different Indian cities:

- Biomass potential analyses on different levels
- Pre-feasibility studies for biogas plants
- Concepts for urban household waste (organic fraction)

#### DBFZ Partners

Cooperation Agreements	
Project Partners	Indian Biogas Association (IBA)

**INDIA****DBFZ Research and Project Country Profile****Project References****DBFZ Reference Projects (selected)**

<b>05/2008-12/2012</b>	<p><b>BIOMATEG - Biomass Technology made in Germany (Fraunhofer)</b></p> <p>The main objectives of this project will be the analysis of competence, market and potential. This includes the preparation, the summary and the commissioning of market information as well as the transfer of knowledge. On several delegation trips, trade fairs and visits to research institutes and companies, contacts are to be made with Indian representatives from research and industry in order to present German expertise in the field of biogas technology and to gain cooperation partners with a practical orientation in this area.</p>
<b>01/2017-12/2017</b>	<p><b>Assessment of the status quo of the implementation and potentials of Anaerobic Digestion in India (Fachverband Biogas e.V.)</b></p> <p>The German Biogas Association (Fachverband Biogas) and the Indian Biogas Association (IBA) have entered a cooperation to support the large scale market implementation of biogas plants based on anaerobic digestion (AD) for the production of power and the provision of other services. As India is currently turning towards renewable energies (RE), the role of biogas in the prevailing energy mix needs to be defined and business cases implemented both within strict sustainability boundaries. This study shall provide basic information on the Indian energy sector and biogas implementation, from which further studies and actions can be planned and execute in order to use the full potential of biogas and its various positive impacts across different sectors.</p>

**DBFZ Reference Publications**

Ghosh, Sadhan Kumar (Hg.) (2018): Utilization and Management of Bioresources. Proceedings of 6th IconSWM 2016. 6th IconSWM. Kolkata (Indien), 23.-26.11.2016. Singapore: Springer. Available on-line: [dx.doi.org/10.1007/978-981-10-5349-8](https://dx.doi.org/10.1007/978-981-10-5349-8).

Schüch, Andrea; Morscheck, Gert; Nelles, Michael (2016): Technological Options for Biogenic Waste and Residues Overview of Current Solutions and Developments. In: S. K. Gosh (Hg.): Proceedings of the 7th IconSWM. 7th IconSWM. Hyderabad [Indien], 15.-17.12.2017. [s.l.]: [s.n.], S. 1029-1044.

**About DBFZ**

DBFZ is the leading German research institute in the field of energetic and related material use of biomass. The DBFZ monitors and evaluates the most promising applications for bioenergy in theory and practice, realizing research and collaborative research projects at both national and international level, with partners and stakeholders from industry, administration, politics and academia. Currently about 180 scientists in the departments Bioenergy Systems, Biochemical Conversion, Thermo-chemical Conversion and Biorefineries carry out application-oriented R&D that also provides scientifically-based results to support informed political decision making.

**Coordinator for international affairs**

Dr. rer. pol. Sven Schaller  
 Phone: +49 (0)341 2434-551  
 Fax: +49 (0)341 2434-133  
 E-Mail: [sven.schaller@dbfz.de](mailto:sven.schaller@dbfz.de)

**Research Coordinator**

Dr. rer. nat. Elena Angelova  
 Phone: +49 (0)341 2434-553  
 Fax: +49 (0)341 2434-133  
 E-Mail: [elena.angelova@dbfz.de](mailto:elena.angelova@dbfz.de)

**Coordinator for Innovation**

MSc. Karen Deprie  
 Phone: +49 (0)341 2434-118  
 Fax: +49 (0)341 2434-133  
 E-Mail: [karen.deprie@dbfz.de](mailto:karen.deprie@dbfz.de)

**General Management DBFZ**

Prof. Dr. Michael Nelles  
 Phone: +49 (0)341 2434-122  
 Fax: +49 (0)341 2434-133  
 E-Mail: [michael.nelles@dbfz.de](mailto:michael.nelles@dbfz.de)