



## REDUCING METHANE EMISSIONS THROUGH WASTE TREATMENT CONCEPT IN THE CITY OF GAOBEIDIAN (CHINA)

As of: July 2021

The aim of the project was to introduce sustainable waste management with reduced methane emissions for the Chinese city of Gaobeidian. At the same time, it reduced the impact of other environmental problems associated with landfill, such as groundwater pollution and offensive odours. To this end, the project constructed a demonstration plant for mechanical biological treatment (MBT) handling approximately 40,000 tonnes of urban waste each year. The demonstration plant produces biogas for electricity generation and enables the reduction of additional emissions through covering the landfill site with stabilised biomass. In addition, the plant is also able to provide other secondary materials such as combustible fuels. The operational staff received training on using the new technology, and quality standards were established.

### State of implementation/results

- Project completed
- Steering group created to bring relevant institutions on board
- Demonstration plant planned and constructed; plant commissioned and officially handed over to the city of Gaobeidian in September 2011
- Future operational staff trained and quality management system introduced
- Pilot test conducted on the production of RDF materials (combustibles derived from waste)
- Successful demonstration of an efficient, cost-effective, replicable and modern treatment technology for handling residual waste in rural China

## PROJECT DATA

### Country/Countries:

China

### Implementing organisation:

AWN Umwelt GmbH

### Political partner(s):

- Ministry of Housing and Urban-Rural Development - China

### Implementing partner(s):

- Chinese Academy of Environmental Sciences (CRAES)
- City of Gaobeidian - China

### BMU grant:

€ 3,199,826.44

### Duration:

10/2008 till 12/2011

### Website(s):

<http://www.awn-online.de/>

