

Green Sustainable Energy for Rural Afghanistan

Building capacity in household biogas technology

PROJECT OBJECTIVE

This project will directly build the capacity local communities to be able to implement alternative energy technology, creating jobs and building resilience to the ever looming environmental change. Impacts of this will feed into national planning and priority setting for rural energy strategies and climate change mitigation strategies.

FUNDING AGEN

BMZ

KEY PROJECT RESULTS

- ⇒ Biogas consortium Increased capacity and knowledge base for the development of the biogas sector
- ⇒ Local community structures established to support the advancement of the biogas sector including the development of a training center and curriculum
- ⇒ Standard designs incorporated into relevant policies, plans and programmes
- ⇒ Economic cost recovery analysis for household biogas units

Opportunities for Biogas in Afghanistan

There exists a clear and major need for improved energy supply, waste management and sanitation solutions in Afghanistan. Biogas can provide part of the solution to these challenges in both rural and urban areas.

The gas and fertilizer outputs are considered co-benefits and would in principal recover the cost of construction and maintenance over time.

If successfully and fully rolled out on a household level across Afghanistan it could provide sustainable benefits to almost 900,000 rural households (42 % of all households) and countless others in urban situations. (Milbrant & Overend, 2011)



Kitchen in Bamyan being fueled by Biogas

Biogas is a multi-thematic solution to multiple problems or needs. In the Afghan context, the technology has the potential to partly address the following needs:

- Access to energy
- Fertilizer
- Organic waste management
- Human waste/ sewage treatment
- Indoor air pollution
- Over harvesting of biomass

Biogas consortium

To ensure the effective implementation and sustainability of the biogas sector in Afghanistan BORDA initiated the development of a consortium of organisations interested in promoting biogas in Afghanistan.

The mission of the consortium is to contribute to a sustainable productive biogas sector through exchange and generation of knowledge, enhancement of technical capacity and address barriers and opportunities for the development of the biogas sector in Afghanistan.