

The Biogas Program for the Animal Husbandry Sector of Vietnam



Picture : BPD

Nexus member

Biogas Project Division under the Department of Livestock and Production, Ministry of Agriculture & Rural Development of Vietnam

Objectives

- Improve the livelihood and quality of life of rural farmers in Vietnam through exploiting the economic and non-economic benefits of domestic biogas
- Develop a commercially viable domestic biogas sector

Targets

- 168,000 plants by 2012 in Phase 1 and 2
- **Gold Standard** Emission Reductions: 420,000 to 700,000 tons CO₂ eq /year

Context and stakeholders

The Biogas Program for Animal Husbandry Sector of Vietnam was launched in 2003 by **the Biogas Project Division** under the Department of Livestock and Production, Ministry of Agriculture and Rural Development of Vietnam, in cooperation with **SNV**, an international development organisation established in the Netherlands and financed by the Netherlands government. Up to 2011, the project has supported construction of over **110,000 biogas plants**.

Phase 2 of the project (2007 - 2012) aims at supporting the construction of **140,000 biogas plants**, providing training for at least one biogas technician per province, one biogas technician and two biogas mason teams per district. In total 2,000 people will be trained through intensive programs to support the establishment of 1-2 biogas enterprises per province.

Impacts and benefits

Environmental benefits

The project will contribute to **reducing greenhouse emission (GHG) of approximately 420,000 to 700,000 tonnes of CO₂ eq annually**, by replacing the use of fossil fuels and non renewable biomass, and by preventing animal

Key facts and figures

- Construction of **168,000 biogas plants** by 2012
- **2,500 permanent jobs** to be created, **2,000 people** will be trained
- **Gold Standard** emissions reduction: **420,000 to 700,000 tonnes CO₂ eq / year**
- Reaching **840,000 persons** in 58 provinces
- Awards: **Energy Globe Award (2006)**, **Ashden award (2010)**

waste to release methane gas in the atmosphere.

The biogas project will bring sustainable energy and development to more than 840,000 people. The project also **reduces deforestation** by substituting biogas to biomass, and provides a by-product, bio-slurry, that is used by farmers to help improve soil fertility.

Economics benefits

In term of economic benefits, the project gives communities access to **sustainable and cheap**

energy as they no longer need to purchase coal, LPG and wood or collect wood and agricultural residues for use in cooking and lighting. It also creates **long term local employment opportunities** for people. The project will create at **least 2,500 permanent jobs** for “**biogas plant construction and services**” in rural areas.

Social benefits

The project also has major social benefits. Biogas is a clean-burning fuel, so **levels of indoor air pollution is significantly reduced compared to traditional cooking methods**. This alternative use of animal waste also keeps **households clean and odour free, with fewer flies**. Many farmers have praised improvement of their yards’ **sanitary condition as a result of installing the plant**. Also, people, who spend less time collecting wood, can **spend more time on their children’s education**.

Action plan (2010-2017)

- Promotion and marketing:** to enhance awareness of the benefits of domestic biogas as a proper livestock’s waste treatment solution.
- Training:** to provide knowledge on biogas technology and skill on biogas plant construction & management for all related project counterparts.
- Support to Construction and Quality Management:** to provide technical support to biogas plant construction to reach the target of 140,000 plants.
- Bio-slurry application:** to improve the process of bio slurry application.
- Research and Development:** to increase knowledge about domestic biogas issues to maximize effectiveness, quality and service delivery of the biogas program.
- Credit, accessing facilitation to financial sources:** to facilitate easier access to domestic biogas for all potential clients with emphasis on the poor, women and other disadvantaged groups.
- Enterprise development:** to support to upgrade mason teams and to establish one to two enterprises doing biogas technical services.
- Monitoring and Evaluation, Institutional support:** Project will carry out the Biogas User Survey and Project Evaluation every year.



Picture : BPD



Picture : BPD

Project Developer and partners

 <p>DỰ ÁN CHƯƠNG TRÌNH KHÍ SINH HỌC CHO NGÀNH CHĂN NUÔI VIỆT NAM BIOGAS PROGRAM FOR THE ANIMAL HUSBANDRY SECTOR IN VIETNAM</p>	<p>Biogas Project Division under the Department of Livestock and Production of the Ministry of Agriculture & Rural Development of Vietnam</p>
<p>Partners</p>	<ul style="list-style-type: none"> ● SNV Netherlands Development Organization ● Netherlands government ● National and provincial government of Vietnam

Contact

Nexus-Carbon for Development

contact@nexus-c4d.org

Tel (Singapore): +65 647 35 431
Tel (Cambodia): +855 23 990 591

www.nexus-c4d.org

Nexus-Carbon for Development is an alliance of pro-poor project developers whose shared vision is that the carbon market should tackle both climate change and poverty in a fair and transparent way. As a global alliance of social ventures, Nexus acts as a peer-to-peer services platform, creating synergies between its members and providing awareness raising, capacity building, carbon project documentation, and carbon asset management. www.nexus-c4d.org