

Market introduction of the medium-scale plug-flow biogas digester in Vietnam

Project Objective

The project aims to develop and stimulate a sustainable commercial medium-scale biogas digester market to provide Vietnam with sustainable energy, benefit from its costs and time reductions, reduce its dependency on fossil fuels and benefit from the health and environmental benefits through improved manure management. The project will stimulate an accessible market in Vietnam for medium-scale digesters by introducing, piloting and testing a cost-effective medium-scale plug-flow biogas digester in 10 farm sites.

Description

Medium (and large) size farms are the fastest growing segment of the livestock production sector in Vietnam. They generate significant levels of waste, pollute waterways and produce millions of tonnes of greenhouse gas (GHG) emissions. This pilot project will promote the introduction of a medium-scale biogas digester (50m³ - 500m³), that will solve the manure management problem of medium size farms, whilst providing gas and electricity, and supporting the reduction of carbon emissions. The project will develop and stimulate a sustainable commercial medium-scale biogas digester market to provide Vietnam with sustainable energy, benefit from its costs and time reductions, reduce its dependency on fossil fuels and benefit from the health and environmental benefits through improved manure management. Innovative ideas from farmers will be used for continuous improvement. At the end of the project 600 households will be equipped with bio-digesters and the entrepreneurs will be able to sustain themselves as demand for biogas digesters will have grown sufficiently.

Project Highlights

Project ID	: 2-V-061
Country	: Vietnam
Lead Partner	: SNV Netherlands Development Organisation
Partners	: Institute of Energy Global Energy Consultancy Investment and Trading Company, Stockholm Environmental Institute (SEI)
Total Project Cost	: € 286,000
EEP Financing (% to total project cost)	: € 191,500 (67%)
Technical Focus	: Biogas
Activity	: Pilot Project
Duration	: 18 months

Relevance to Country's Energy and Environment Policies

A movement from the scattered household-based animal raising tradition, which has few thousand years' history in Vietnam, towards concentrated farm-based livestock production, can be observed. It highlights an important measure under the agricultural re-structuring policy of the country.



Photo courtesy: Dagmar Zwebe

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Meet at project site

Innovation and Knowledge Transfer

The new plug-flow technology developed by one of the partners, the Institute of Energy (IE), is an innovation on previous medium-scale models. A new public-private partnership is developed within the consortium. SNV and IE have collaborated before. The introduction of the Vietnamese commercial company GECI and technical support from the SEI is an exciting addition. This particular combination of companies is chosen to be able to have the optimal market introduction, technology and a sustainable project approach.

The project will link to key stakeholders, such as government departments, research institutes, the private sector, NGOs etc through the Biogas National Steering Committee and the Vietnam Biogas Association. IE will certify the technology for the Vietnamese market; it will be public intellectual property, which can be adopted by other companies. The partnership has the infrastructure in place to organize the dissemination of results internationally.



Project location, Nam Binh province: Initial works

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