

RENEWABLE ENERGY SOLUTION FOR THE POOR

SNV DOMESTIC BIOGAS DISSEMINATION IN PAKISTAN



About 2.5 billion people in developing countries are increasingly facing problems with energy supply. Their access to traditional cooking fuels such as wood, agricultural waste, dried dung and charcoal is declining, while commercial fuels are too expensive and their availability unreliable.

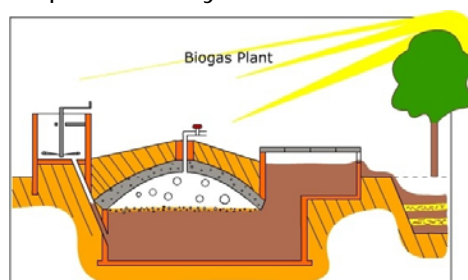
In Pakistan, biogas technology has been tried with some success but has yet to be widely adopted. Current dissemination programmes largely have a piloting character and commercial promotion is not yet taking place, despite a large potential of about 5 million digesters for the country.

For nearly two decades, SNV Netherlands Development Organisation has been supporting the preparation and implementation of national domestic biogas programmes in Asia and Africa. Using a multi-stakeholder sector development approach and innovative methods to transfer knowledge and expertise across national borders, SNV has helped over 245,000 households in Asia gain access to biogas. Our ability to develop sustainable biogas sectors, contribute to poverty reduction and the mitigation of climate change has been acknowledged with international Awards such as the Energy Globe Award and the Ashden Awards for Sustainable Energy (for our programmes in Vietnam and Nepal).

Based on the successful biogas experience in other Asian countries, in early 2007, SNV, UNDP Pakistan and Winrock International carried out a feasibility study for establishing a large-scale household biogas programme. The study examined the potential for rural household-scale biogas for cooking and lighting, based on enabling conditions such as numbers of stall-fed livestock, availability of water and warm temperature.

Furthering on the findings of the feasibility study, a Programme Implementation Plan for domestic biogas of Pakistan has been finalised. This Plan details technological, organisational and institutional aspects for a national biogas programme, including activity schedule and budget.

Initially, the programme activities will take place in four provinces of Pakistan (Punjab, Sindh, NWFP and Baluchistan), supporting the construction of 30,000 installations over a period of 4 years.



SNV is dedicated to a society where all people enjoy the freedom to pursue their own sustainable development. We contribute to this by strengthening the capacity of local organisations.

The objective of the national domestic biogas programme is to establish a commercially viable biogas sector. To that extent, the main actors at the supply side of the sector are private Biogas Construction Enterprises providing biogas construction and after sales services to households. At the demand side of the sector, Rural Support Programmes organized under the Rural Support Programme Network will be the main implementing partners, but will also include NGOs, farmers' organisations and dairy organisations.

To start with, the Pakistan Biogas Development Enterprise (PBDE) coordinates and partly implements the programme activities. PBDE will be hosted by the Rural Support Programme Network but will gradually become an independent entity, able to swiftly act on the requirements of the sector.

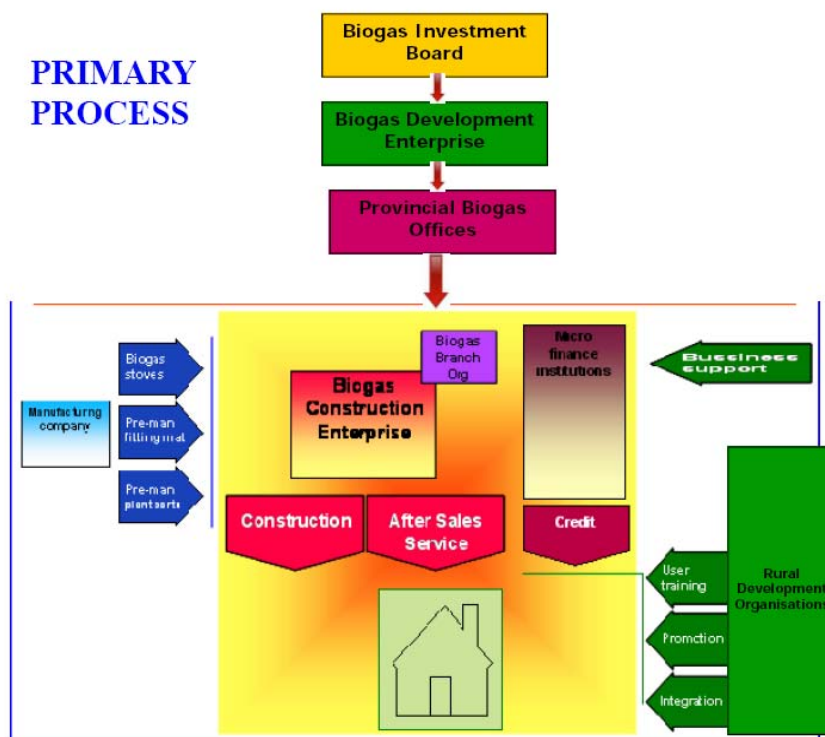
To stimulate the demand for domestic biogas plants, households will receive a flat rate investment rebate of PKR 6,000 per biogas installation (PKR 10,000 for remoter areas).

The total costs of the programme are budgeted at PKR 2,783 million (€ 27.9 million). The participating households will bear the lion share of the costs (PKR 1,906 million). The investment-rebate component, supporting the investment of the household, amounts to PKR 244 million. Programme support, International Technical Assistance and RSPN management fee expenses add-up to PKR 485 million, PKR 127 million and PKR 26 million respectively.

To cover the programme budget, funds are sought from the Government of Pakistan (PKR 200 million) and ODA / investors (PKR 610 million), of which an amount of PKR 115 million has been committed by SNV.

Over a ten-year period, the programme strives to cover expenses for the investment-rebate and the supply-side support activities by revenue resulting from the biogas installations reducing greenhouse gas emissions.

PRIMARY PROCESS



SNV and Winrock International will make experts available to provide technical assistance to the programme as a whole. The experts will assist with the programmatic, technical and administrative aspects of the programme.

If you need more information or would like to discuss the possibilities to support our efforts in making renewable energy accessible to poor households in Pakistan, please contact:

Wim van Nes, Network Leader Renewable Energy, SNV Asia
 Email: wvannes@snvworld.org
 Website: www.snvworld.org

Rajesh Shrestha, Biogas Adviser
 Email: rshrestha@snvworld.org