



Sustainability action · Project Renewable Energy and Energy Efficiency

National Biodigester Programme, Cambodia

The National Biodigester Programme contributes to sustainable development in Cambodia by providing a clean, sustainable and efficient supply of energy to the local population.

Project

In January 2006, the Ministry of Agriculture, Forestry and Fisheries (MAFF) and SNV Netherlands Development Organisation agreed on the joint development of a National Biodigester Programme (NBP). The project creates an indigenous, sustainable energy source in Cambodia and utilizes the potential of biogas in the country.

Clean and renewable energy is produced by hygienically treating animal and human waste in biodigesters. The treated waste is used by farmers as a potent and safe organic fertilizer, contributing to higher yields and healthier crops.



Checklist	Additionality and permanence	3 rd party verified	Transparency	Annual CO ₂ -reduction	Social and environmental benefits	Marketing material
Project 301 259	According to the rules of the CDM and the Gold Standard	By Tüv Nord	Provided by Markit Environmental Registry	31,700 tCO ₂ e	As documented in our database	Pictures available



Location

The project is located in the southern provinces of Cambodia, namely in Kampong Cham, Kampong Chhnang, Kampong Speu, Takeo, Svay Rieng, Kandal, Prey Veng and Kampot.

Project achievements

Socio-economic impact

- The project has generated employment opportunities for local mechanics and technicians and reduced their need to migrate to neighboring villages or cities to find decent labour; 62 private enterprises have been established and 700 jobs have been created so far.
- The biogas plants reduce hazardous smoke caused by indoor pollution and contribute to improved health and sanitation; women and children are less prone to respiratory ailments including pneumonia, asphyxia and lung cancer.
- Women and children, who spend several hours each day to collect firewood, save 80 min per day and spend more time on education and other activities due to the reduced need for firewood.
- Families save an average of \$91 per year on firewood and chemical fertilizers.

Environmental impact

- The project generates an estimated annual emission reduction of 31,700 tCO₂
- The replacement of traditional biomass stoves with fuel-efficient biomass stoves reduce deforestation and improve biodiversity in the region. The project has saved over 150,000 tonnes of wood since 2006.
- The biogas plants produce an organic soil enriching fertilizer, which stabilises soil quality, enriches fertility in the land and increases crop yield. Over 18,000 farms in the project area are reaping the benefits of the organic fertilizer.

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