Transforming waste into biogas in Vietnam

Benefits of the Biogas Program in Vietnam

Turning a problem into a solution can be life changing. For farmers in Vietnam, using waste to generate clean, sustainable energy saves them precious income while improving their family’s health and the environment.

The Biogas Program in Vietnam effectively addresses both climate change and energy access in communities across rural Vietnam. Not only is the project preventing over half a million tonnes of CO₂e from entering the atmosphere each year, but it is creating local jobs, improving indoor air quality for thousands of people, and reducing deforestation.

The program trains local workers to build and maintain biogas digesters that provide rural farming communities with clean and affordable energy. The initiative began in 2003 and has now installed 171,935 digesters in 55 provinces. The project is implemented by SNV and the Vietnamese government’s Livestock Production Department. The program has won both Energy Globe and Ashden Awards and is on track to meet its goal of constructing 200,000 locally produced household digesters for farmers by 2020.

Benefits:

- 15,935 hectares of forest preserved (that’s 25,000 football pitches) since 2007
- 2,757 local people trained as masons and technicians since 2007
- 1–1.5 hours of work reduced for women each day
How biogas works

Human and animal waste is collected in a reservoir. As the waste decomposes it releases methane gas which is piped into homes and burned for fuel. The remaining waste yields an organic fertilizer by-product used by farmers.

Carbon credits support development goals

Biogas displaces smoky cooking fires and improves sanitation by utilizing manure. Using biogas instead of wood and charcoal means more of Vietnam’s forest is preserved. Other benefits include saving on fuel purchases and less time spent by women gathering cooking fuel. This project generates carbon credits by reducing CO₂e emissions. While the funds received by the project are payment for its environmental outcomes, it also benefits the aforementioned development goals. Recognizing these co-benefits allows us to more accurately measure the project’s total contributions beyond its climate benefit.

Support this project

By purchasing carbon credits, you can provide the Biogas Program in Vietnam with critical funding and reduce carbon emissions. Your support will allow more people to be trained in digester construction and maintenance, enabling the technology to benefit additional farm families.

Annual co-benefits*

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Value</th>
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<tbody>
<tr>
<td>Fuel saved</td>
<td>253,082 kg</td>
</tr>
<tr>
<td>Household savings on fuel purchase and collection</td>
<td>$22,136</td>
</tr>
<tr>
<td>Fewer cases of acute lower respiratory illness</td>
<td>19</td>
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</tbody>
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**Figures are based on data from BP (2017) Social Return on Investment of Nexus Carbon for Development Projects. This study calculated the co-benefits for the Biogas Program using 2007-2016 data (until end of the 3rd monitoring).**

Quality assurance

This project is certified and third-party audited under the Gold Standard, the most rigorous global standard for carbon offset projects. It is also listed on the [Gold Standard Impact Registry](https://www.goldstandard.org). Read more about Nexus’ quality assurance.

More information

For more information on this project, contact Nexus: contact@nexusfordevelopment.org.