



Photo Yayasan Rumah Energi

Hivos Biogas
Carbon Credits

INDONESIA

Hivos believes in the power of people everywhere to improve their situation and control their lives. Most poor people live in rural areas and their basic livelihoods depend on the state of their natural environment, which is coming under increasing threat from climate change. Using renewable energy sources and climate-smart agricultural methods both improve their living conditions and help to mitigate climate change. Carbon finance makes these new technologies more affordable. Hivos supports access to carbon finance for the rural poor by implementing domestic biogas programmes and selling carbon credits.

Indonesia Domestic Biogas Programme

Type of project	Biogas digesters
Time sequence project	2009 – present
Emission reduction	2.6t CO ₂ e/year per digester

Domestic biodigesters provide a way for individual households with livestock to reduce their dependence on polluting firewood and expensive fossil fuels. Cooking on biogas is fast and smokeless. It improves the health of especially women and children. Leftover slurry from the biogas process is an excellent organic fertilizer that can be applied to improve crop yields. Selling more vegetables provides families with extra income.

"...our hearts continue to bloom, even during the corona crisis because of bio-slurry..."

Mr and Mrs Slamet

The Indonesia Domestic Biogas Programme (IDBP) is called the BIRU programme in Indonesia. BIRU means 'blue' and is an acronym of Biogas Rumah, which translates as 'biogas for the home'. The BIRU programme is implemented by Hivos, working closely with the Indonesian Ministry of

Energy and Mineral Resources and the SNV (Netherlands Development Organization). The first phase (2009-2012) was funded by the Dutch Embassy in Indonesia. Subsequently the programme extended to ten provinces, and by the end of 2019 over 24,500 biodigesters have been installed across the country.

The BIRU programme distributes biogas digesters as a local sustainable energy source by developing a commercial, market-oriented sector for them. That provides business opportunities for construction organizations, as well as training and employment for masons.

Cooperation with the private sector

Cooperation with the private sector is one of the key factors behind the success of the programme. In Indonesia, dairy cooperatives play a significant role at the domestic biogas markets. They are better able to reach farmers, and many of them have access to funds (e.g. from Nestlé and the Rabobank Foundation) to support farmers with biogas credit. The programme provides a flat subsidy (investment incentive) per digester, benefiting poorer farmers more than better off farmers. The income from carbon credit sales is used for these subsidies and for after-sales support and user training.

Women's empowerment

To endorse its positive social and economic benefits for women, in 2015 the programme acquired W+ Standard, a unique label developed by WOCAN to measure women's empowerment. Hivos commissioned the WOCAN W+ team to apply the W+ Standard in collaboration with BIRU in two provinces of Indonesia: West Nusa Tenggara and East Java. The W+ time method quantifies women-benefit as daily saved time of 61 minutes.

Facts & Figures (till December 2019)

- 331,333 tons of verified emission reductions (2011-2019)
- 24,517 biodigesters constructed (2009-2019)
- 13,189 households use bioslurry as fertilizer
- 607 households sell bioslurry on the market
- 39 construction partners
- 1,567 jobs created
- 61 minutes daily time saved per household (certified by W+ Standard)
- 40% of women actively involved in decision-making



Interested?

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