

WENCHANG HOUSEHOLD BIOGAS, CHINA



RENEWABLE BIOGAS PROGRAMME IN RURAL CHINA

According to the World Bank, more than 470 million people across China do not have functioning waste management systems. In Hainan Province, many households still use open pit latrines outside their homes and store animal manure from livestock in open pits, where it slowly breaks down. These pits not only generate methane emissions, a potent greenhouse gas, but also present health risks for both livestock and humans, and are a potential source of disease and parasitological infection.

In parallel to this, cooking and heating in the home normally uses bought coal. This costs families time and money whilst exposing them to harmful indoor air pollution and emits significant amounts of CO₂.

This project supports farmers to build and maintain a household biogas digester, giving them the opportunity to take control of their own energy supply. Families reduce expenditure on fuel by 40%, whilst improving sanitation for them and their livestock. It also enables long-term access to a source of renewable, clean fuel for cooking and heating.

Additionally, the project uses the income from carbon finance to support a network of service stations that provide technical support to households. Sustainable, long-term jobs have been created in the production and maintenance of the biogas production facilities. Furthermore, spending less on fuel increases disposable income for participating households, reducing inequalities between urban and rural Hainan.

REDUCES HOUSEHOLD EXPENDITURE ON FUELS

PROVIDES A SOURCE OF CLEAN, RENEWABLE ENERGY

CREATING SUSTAINABLE, WELL-PAYING JOBS



DELIVERING THE GLOBAL GOALS (SDGS)



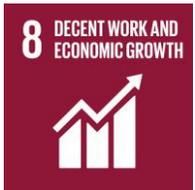
Households have more money to spend on food, healthcare and education



Cuts harmful indoor air pollution, bringing multiple health benefits. Digesters also mitigate potential health hazards of open pit latrines



Provides ready supply of clean and reliable renewable energy



Created sustainable, well-paying jobs in local communities



Works as an example project for a technology that's not commonly used in this low-income county



Reduces emissions by more than 55,000 tonnes CO₂e per year



WHAT THE CARBON FINANCE DELIVERS

Sales of carbon credits help to cover the cost of the project's operations, maintenance of the installed digesters, and monitoring of the project.

Additionally, carbon finance helps to pay technicians' and workers' wages, and digester owners also receive a small rebate.



GET IN TOUCH:

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