

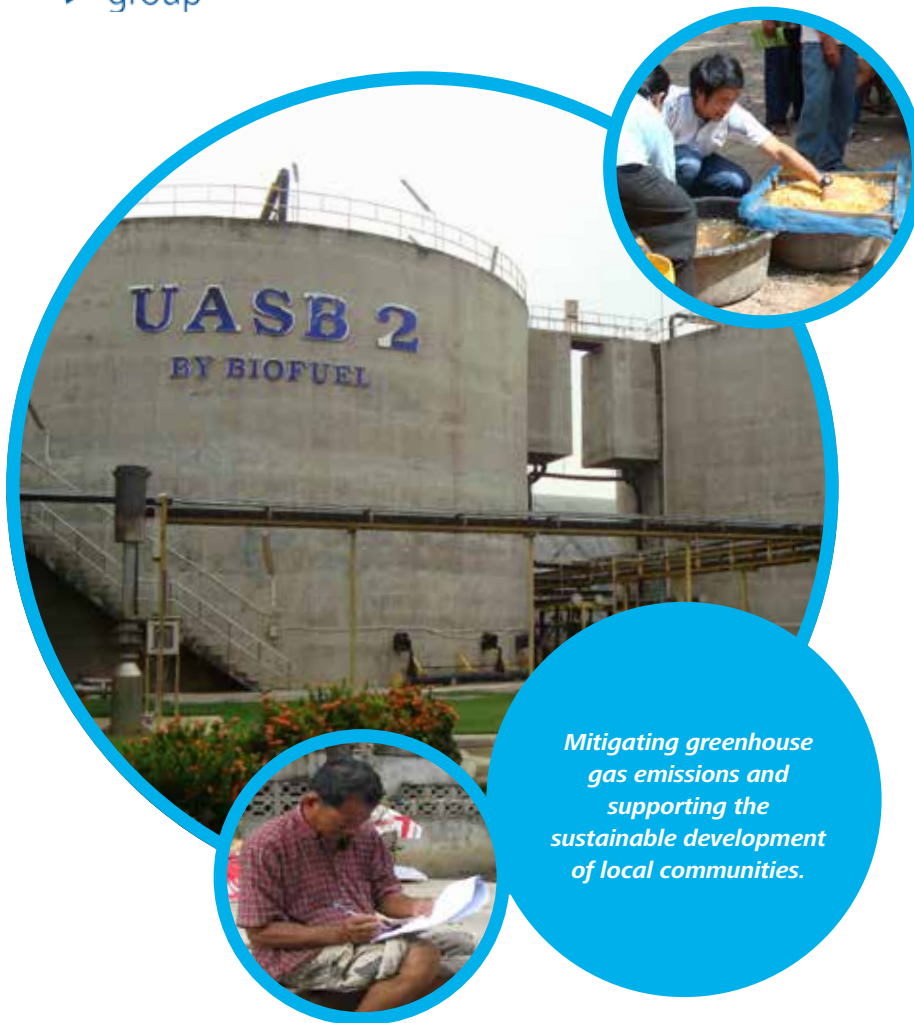


BANPONG WASTEWATER TREATMENT THAILAND



Turning wastewater into energy

The Bangpong Project is located at a starch processing plant in Ratchaburi Province in Thailand. It captures methane from the wastewater treatment process and generates sustainable electricity to power the factory, thus mitigating approximately 9,935 tonnes of carbon dioxide equivalents per year.



Mitigating greenhouse gas emissions and supporting the sustainable development of local communities.

The Bangpong factory produces tapioca starch from dried cassava that is grown in the region. This process creates vast amounts of wastewater per day, which is stored in a series of 9 open lagoons. The large size of these lagoons and the warm temperature creates perfect conditions for the breakdown of organic compounds in the wastewater. This produces large amounts of methane, a powerful greenhouse gas.

The existing process has been modified into a closed loop system that captures the methane emissions and uses them to generate electricity to power the factory, which leads to a significant reduction of the fossil fuel use of the starch plant. The project and the resulting carbon revenues generate jobs for locals and support social and educational activities in the community, such as a kindergarten, a Buddhist temple, and trainings for local farmers.



1

local kindergarten supported



3,000

m³ of water treated/day



8

permanent positions created



9,935

GHG emissions mitigated per year (tCO₂e)

PROJECT HIGHLIGHTS

For more information on the UN Sustainable Development Goals please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>