

NAKHON BIOGAS THAILAND

**Reducing waste and making Thailand's economy
more sustainable**



This project mitigates greenhouse gas emissions and prevents local air pollution from a Thai starch plant by capturing methane and generating sustainable energy which also benefits local communities.



Using methane from wastewater to generates electricity and avoids burning of thousands of tonnes of fossil fuel.

Prior to installing the new system, the wastewater was treated through cascading open lagoons, resulting in methane generation from the organic content of the wastewater that was steadily released into the atmosphere. Methane is a greenhouse gas 21 times more potent than CO₂. Today, the captured methane can be used for clean energy production, replacing fossil fuels that were used to dry the starch.

The project has significantly improved the local air and water quality; at the same time the fossil fuel use of the starch plant has been significantly reduced. The project and the resulting carbon revenues generate jobs for locals and support social and educational activities in the community to enable sustainable development. The clean wastewater is used to irrigate nearby fields and allows fish farming, enabling local communities to increase their income.

PROJECT HIGHLIGHTS

3 GOOD HEALTH AND WELL-BEING



14

Permanent jobs created

7 AFFORDABLE AND CLEAN ENERGY



8,800

MWh electricity generated per year

13 CLIMATE ACTION



90,000

tCO₂e mitigated per year

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

CHECKLIST PROJECT

Commercial Operation Date

25 March 2009

Total capacity

2.72 MWeI

Quality Assurance and Verification

Annual audit provided by third-party auditor:
TÜV Nord

Transparency

RECs listed in GoldPower Register
(<http://goldpower.net/goldpowerregister>)
Underpinning carbon credits retired in the Swiss National Registry

Marketing material

High-resolution pictures available

Reportability

Meets GHG Protocol Scope 2 Guidance criteria

GoldPower credentials projects certified by

Gold Standard

GoldPower credentials reportable under



RE 100

#READYFOR2020

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