



**Non-technical Summary of the project “Blue Fire Bio Wastewater Treatment and Biogas Utilization Project”**

**Of Blue Fire Bio Co., Ltd**

**Project detail**

The “Blue Fire Bio Wastewater Treatment and Biogas Utilization Project” of Blue Fire Bio Co., Ltd is a project which implements a waste water treatment system which can produce biogas and reduce environmental impacts. The waste water is from a starch manufacturing plant of Chaodee Starch (2004). The biogas can be used to produce heat in the boiler and to produce electricity to the local grid. The project is located at 61, Moo 14, Hindad, Dan Khun Tot District, Nakhorn Ratchasima (Korat).

Before the project activity, the waste water was treated in the open lagoon system, which caused environmental impacts e.g. odour. Therefore, the project owner has decided to develop this project through Clean Development Mechanism (CDM).

**Technology used to treat the waste water and produce biogas**

The biogas production system will use a high efficiency waste water treatment system by Bio Fuel Co.,Ltd. The gas from the system can be used as fuel to substitute fuel oil previously used for starch production process as well as to produce electricity. The project has several advantages,

- By displacing fossil-fuel electricity from the grid, the project will achieve Green house gas emission reductions and thus participate to the mitigation of climate change.
- The biogas can be used as fuel
- The higher efficiency will result in less time for water treatment process
- Reliable technology

**Project timeline**

<b>Progress</b>	
Start of the project – when the decision was made	August 2005
Construction of phase 1	May 2006
Operation of phase 1	July 2007
First stakeholder consultation meeting	Nov 2008
Construction of phase 2	Sept 2009
Operation of phase 2	July 2010
Second stakeholder consultation meeting	Nov 2010