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Annex 1 ODA declarations

SECTION A. Project Title

KI Biogas Co.,Ltd. Wastewater Treatment and Energy Generation, Nakhon Ratchasima

SECTION B. Project description

KI Biogas Co., Ltd. is planning anaerobic wastewater treatment systems and covered lagoons, to treat about 1,195 m³/day of high organic laden wastewater that is produced from the ethanol production process in the Northeastern Province Nakhon Ratchasima in Thailand.

The ethanol factory has daily average production rates of 100,000 liter ethanol per day for industrial use, partly for national market and for export. Based on molasses feedstock, which is processed at 330 days per year; measured COD in the open lagoon is 120,000 mg/l on average. Thus there is a high potential of methane production for energy utilization. Below is an overview of the plant parameters:

Table 1 Technical data for developing CDM project

Item	Molasses
Ethanol production	100,000 liters/day
Yearly operation	24 hr/day 330 days
Wastewater flow	
... per day	1,195 m ³
... per year	394,350 m ³
COD (mg/l)	Approx. 120,000 mg/l
Biogas utilization	1 st stage (Jan-2010 to Dec-2010) feed into the grid with 3 MW 2 nd stage (Start Jan-2011) feed into the grid with 4 MW
Methane content in biogas	Approx. 50-55%
Biogas production rate	Estimated 46,605 m ³ /day
COD reduction rate	65% ± 5

The existing wastewater treatment system of KI Ethanol is an open pond system operated since 2007. A Continuous Mixed Tank Reactor (CMTR), an anaerobic biomethanation system, has been chosen to treat wastewater from the ethanol factory by converting organic matter into energy in the form of biogas. The biological process of conversion takes place at mesophilic temperature in a controlled atmosphere to maximize conversion efficiency & production of biogas. The treatment process is described as follow;

Wastewater from the distillery is collected in a pit to settle suspended solid before entering the biodigester. This pre-settling system ensures consistent operation by reducing the suspended solids in the waste water; the settled solids are removed periodically from the pit for further disposal. After that, wastewater is pumped to the biodigester. A heat exchanger reduces the water temperature down to 38 – 40° C. Utilizing the cooling water, mixed with the recycled treated effluent the pH of the waste water will be adjusted to 6.5-7.0. The mixing system operates through re-circulation of sludge and produced gas to enhance degradation and generation of biogas. Various sample points on the shell are for measuring the concentration of sludge in the biodigester. Draining points are considered for releasing excess sludge. The wastewater will be kept for an adequate period of time in the digester to reduce the effects of shock loads and making the process firm. The digested effluent from biodigester flows to a parallel plate clarifier via degassing pond. The entrapped gases in the digested effluent are released into the degassing pond. The sludge is settled in the parallel plate clarifier, which is recycled to increase the solid retention time in the biodigester. The supernatant liquid from the clarifier is sent for further

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Table 2 Area, capacity and depth of ponds

Pond No.	Area [m ²]	Capacity [m ³]	Depth [m]	note
1	16,150	71,375	5.0	Existing pond
2	16,150	71,375	5.0	Existing pond
3	16,150	71,375	5.0	Existing pond
4	16,150	71,375	5.0	Existing pond
5	29,200	120,000	5.0	New existing pond
6	27,664	107,085	5.0	New existing pond
sum	121,464	512,585	-	Total pond capacity

Source: PDD KI biogas Co., Ltd., version 01, page 9

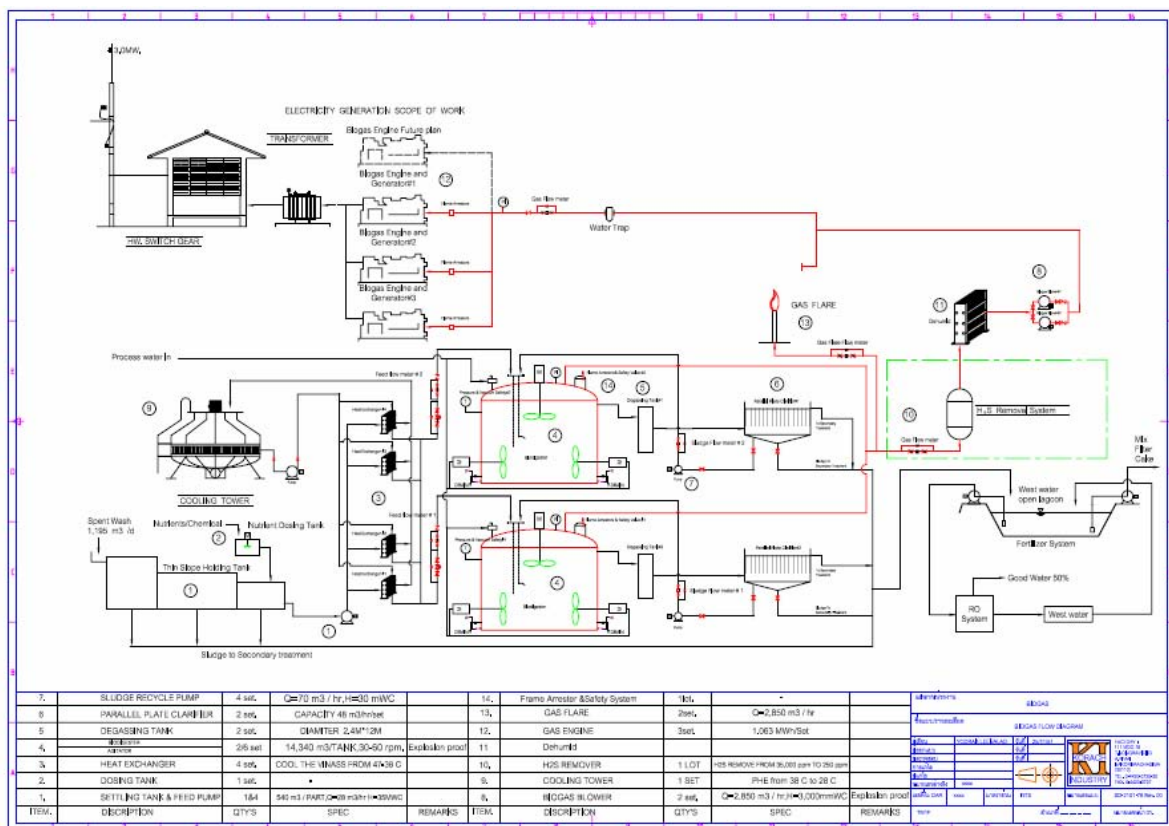








Figure 2 Biogas Flow diagram

SECTION C. Proof of project eligibility

C.1. Scale of the Project

Project Type	Large	Small
	x	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>

C.2. Host Country

Thailand

C.3. Project Type

Project type	Yes	No
Does your project activity classify as a Renewable Energy project?	x	<input type="checkbox"/>
Does your project activity classify as an End-use Energy Efficiency Improvement project?	<input type="checkbox"/>	x

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Explanation of project type:

The project activity consists of the construction and operation of a wastewater treatment system of KI Biogas company. The project reduces emissions through methane capture and utilization for electricity generation in order to substitute fossil fuel with the produced biogas.

The project activity belongs to *Category 13: "Waste handling and disposal"* as listed in the sectoral scopes for accreditation of the operational entities <http://cdm.unfccc.int/DOE/scopes.html>
Approved Consolidated Methodology ACM0014 "Mitigation of greenhouse gas emissions from treatment of industrial wastewater", Version 3, valid from 13 February 2009 onwards is applied for this project.

Pre Announcement	Yes	No
Was your project previously announced?	<input type="checkbox"/>	x
Explain your statement on pre announcement		

C.4. Greenhouse gas

Greenhouse Gas	
Carbon dioxide	x
Methane	x
Nitrous oxide	<input type="checkbox"/>

C.5. Project Registration Type

Project Registration Type	
Regular	x

Pre-feasibility assessment	Retro-active projects (T.2.5.1)	Preliminary evaluation (T.2.5.2)	Rejected by UNFCCC (T2.5.3)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION D. Unique project identification

D.1. GPS-coordinates of project location

[See Toolkit 1.6]

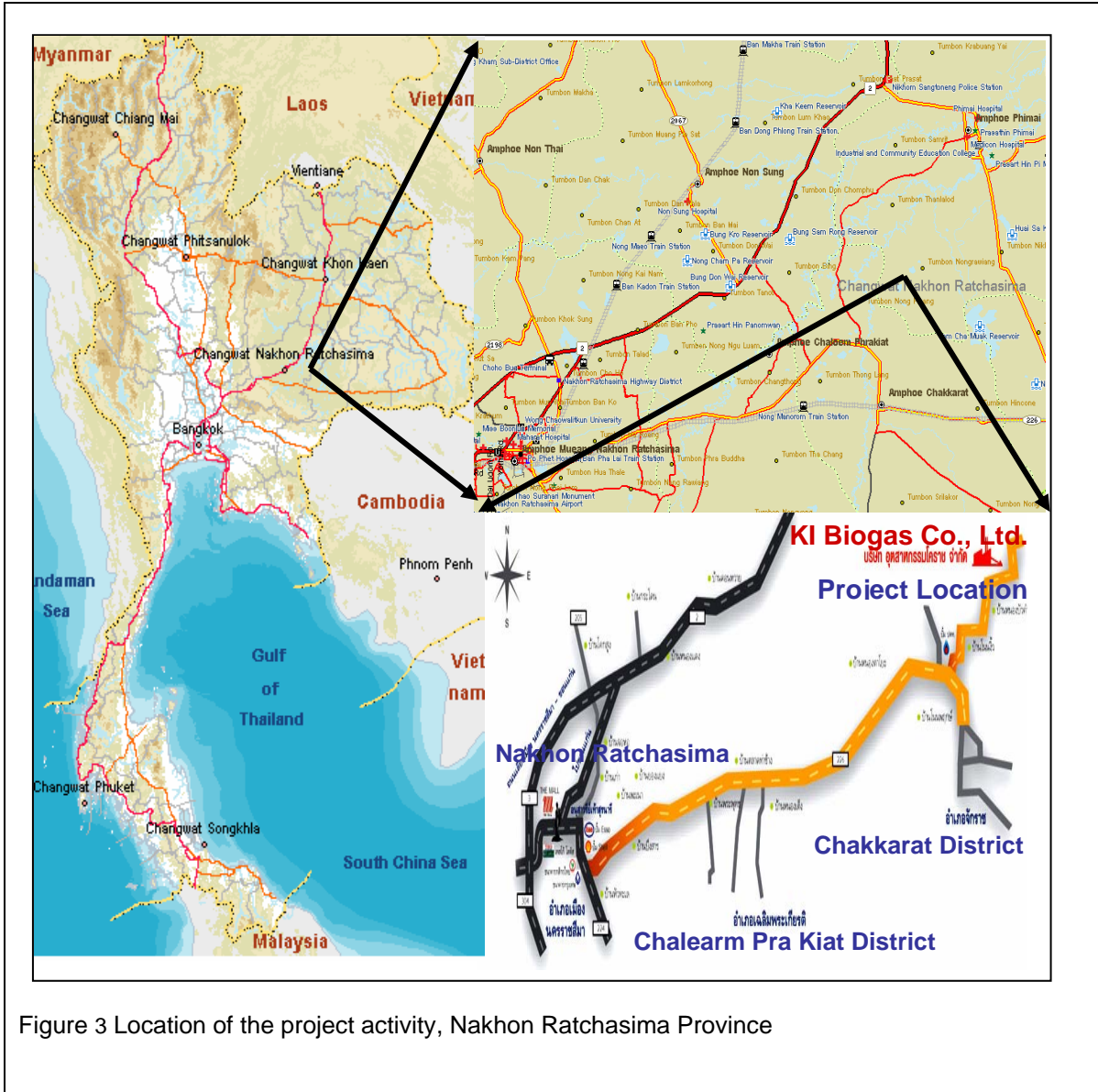
	Coordinates
Latitude	15° 7'40.66"N
Longitude	102°26'33.80"E



The project is located approximately 260 km northeast of Bangkok.

The complete address is as follows:
222/1 M.18, Nongravieng subdistrict, Pimai District, Nakhon Ratchasima, Thailand 30110

D.2. Map



SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

(B.5) ii Assessment of comments.

Stakeholder Comment	Assessment	Response to comment
Most concerns have been expressed referring the offensive smell that some time caused by the wastewater of the existing open pond treatment system.	As pointed out above, no concerns of severe environmental impacts through the project have been expressed which would have required technical or other mitigation measures as a consequence.	These concerns have been conveyed by farmers who live in the community nearby the factory area. It has been clarified during the meeting that the change of wastewater treatment system from open pond to digester could help reduce or relieve the odor due to the applied close system and more complete degradation process. There was a broad understanding of the applied technology and its improvements compared to the existing environmental impacts at present.
There has been a request by a local administrative officer to KI Biogas referring to wastewater utilization as fertilizer.	Farmers know that the wastewater can be applied as fertilizer for their agricultural area. The concern is the control of distribution and utilization that might effect to nearby environment.	KI Biogas clarified during the meeting that they have their own research and monitoring system for the wastewater application to prevent any negative impact to the quality of soil and environment and in order to advice and consult with farmers to maximize benefits of the application. The comments and recommendations will be taken into consideration to improve the system.

(See draft KI Biogas Local Stakeholder Consultation Report B.5 in details)

(B. 5) iv. Summary of alterations based comments

Comments and requests from stakeholders do not affect the project from technical point of view and referring digester operation and biogas utilization. No technical alterations needed to be undertaken.

E.2. Stakeholder Feedback Round

The stakeholder feedback round in KI Biogas (In process)

The stakeholder feedback round will be arranged in order to follow up and clarify the stakeholder's comments. Please see the detail of stakeholder feedback round in section d of draft KI Biogas local stakeholder consultation meeting. However this step is in process. The Stakeholder Feedback Round will be integrated into the next stakeholder meeting. The stakeholder from the initial stakeholder consultation meeting will be invited to receive explanation regarding to the questionnaire. The schedule of the stakeholder feedback round will be announced an agenda and venue further.

SECTION F. Outcome Sustainability assessment

F.1. 'Do no harm' Assessment

Safeguarding principles	Description of relevance to the project	Assessment of my project risks breaching it (low/medium/high)	Mitigation measure
Human Rights			
<p>The project respects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people.</p> <p>The project is not complicit in Human Rights abuses.</p>	<p>It is confirmed that the construction and operations of the project are consistent with responsible business practices and with the legal principles in the host country.</p> <p>The wastewater treatment system at KI Biogas is not in conflict with the economic livelihood of the local community. Stakeholder consultations have been carried out locally and input sought actively and transparently, including from nongovernmental organisations.</p> <p>Gold Standard Local Stakeholder Consultation Report.</p> <p>Host country ratification of the International Covenant on Economic, Social and Cultural Rights (ICESCR) (2001): http://www2.ohchr.org/english/bodies/ratification/3.htm</p>	Low	None
<p>The project does not involve and is</p>	<p>Confirmed. No resettlement has occurred as a consequence of the project activity.</p>	Low	None

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not complicit in involuntary resettlement.			
The project does not involve and is not complicity in the alternation, damage or removal of any critical cultural heritage.	<p>Confirmed. The wastewater treatment system is not located in the proximity to any cultural heritage or any property on the World Heritage List. The area is approved industrial and agricultural area. The location of the project activity is on the property of the existing factory area, which is approved by Thai planning and legislation for agro-industrial and intensive agricultural land use.</p> <p>Initial Environmental Evaluation (page 14)</p> <p>Host country ratification of the World Heritage Convention (1987): http://whc.unesco.org/en/convention/</p>	Low	None
Labour Standards			
The project respects the employees' freedom of association and their right to collective bargaining and is not complicit in restrictions of these freedoms and rights.	<p>It is confirmed that the employer does not interfere in the employees' rights to associate, nor does the employer discriminate against the employee or a representative of the employee.</p> <p>Thai Trade Union Law: Labour Protection Act B.E. 2518 (1975) http://www.mol.go.th/download/laborlaw/labourRelation2518_en.pdf</p>	Low	None
The project does not involve and is not complicit in any form of forced or compulsory labour.	<p>It is confirmed that no forced labour, directly or indirectly, is used in the construction and operations of the wastewater treatment system.</p> <p>Employment contracts will fulfil the requirement of Department of Labour</p> <p>Host country ratification of the ILO Forced Labour Convention (C29) (1969) http://www.unhchr.ch/html/menu3/b/31.htm</p> <p>Host country ratification of the ILO Abolition of Forced Labour Convention (C105) (1969) http://www.unhchr.ch/html/menu3/b/32.htm</p>	Low	None
The project does not employ and is not complicit	<p>It is confirmed that no child labour is employed in the construction or operations of the wastewater treatment system.</p> <p>Thai Labour Protection Act B.E. 2541 (1998) ; Child Labour</p>	Low	None

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<p>in any form of child labour.</p>	<p>http://eng.mol.go.th/law_labour.html#h5</p> <p>Host country ratification of the Convention on the Rights of the Child (CRC) (1992). http://www.unhchr.ch/html/menu3/b/k2crc.htm</p> <p>Host country ratification of the ILO Minimum Age Convention (C138) (2004) http://www2.ohchr.org/english/law/ageconvention.htm</p> <p>Host country ratification of the ILO Worst Form of Child Labour Convention (C182) (2001) http://www2.ohchr.org/english/law/childlabour.htm</p>		
<p>The project does not employ and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.</p>	<p>The wastewater treatment system ensures non-discrimination in personal practices.</p> <p>Host country ratification of the Convention on the Elimination of All Forms of Discrimination against Women (CEDAW) (1985): http://www.un.org/womenwatch/daw/cedaw/states.htm</p> <p>Host country ratification of the Equal Remuneration Convention (C100) (1999) http://www.unhchr.ch/html/menu3/b/d_ilo100.htm</p> <p>Host country ratification of the Convention on the Rights of Persons with Disabilities (CRPD) (2008) http://www.un.org/disabilities/default.asp?navid=12&pid=150</p>	<p>Low</p>	<p>None</p>
<p>The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe and unhealthy work environments.</p>	<p>Working with the wastewater treatment system can entail unsafe handling of machineries and captured gas, but it is confirmed that a health and safety management system will be provided.</p> <p>Health and Safety plans have also been prepared to minimize impact to local environment and community. (Initial Environmental Evaluation page 13-14)</p> <p>Thai Labour Protection Act B.E. 2541 (1998) ; Work Safety, Occupational Health and Environmental Conditions http://eng.mol.go.th/law_labour.html#h5</p>	<p>Low</p>	<p>All workers will be trained on health and safety issues. Workers who work closely with the machines will be trained on the issues involved with the specific machines to prevent unsafe or unhealthy conditions. Any accidents will be recorded in</p>

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			order to come up with prevention strategy.
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F.2. Sustainable Development matrix

(Consolidated sustainable development matrix, table C.3 of draft KI Biogas local stakeholder consultation report)

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development.	If relevant copy mitigation measure from "do no harm" – table, or include mitigation measure used to neutralise a score of ‘-’	Check www.undp.or/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	Negative impact: score ‘-’ in case negative impact is not fully mitigated score 0 in case impact is planned to be fully mitigated No change in impact: score 0 Positive impact: score ‘+’
Air quality	None	Ensure Environmental Sustainability (Goal 7) <i>7.2 CO₂ emissions</i> The project activity reduces emissions of GHG and particulate matter emission by substituting biogas for fossil fuel in power plants. Odor from waste water will be reduced through closed system.	Concentration and emissions of CO ₂ , CH ₄ , PM, SO ₂ , etc.	+
Water quality and quantity	None	Ensure Environmental Sustainability (Goal 7) <i>7.8 Proportion of population using an improved drinking water source</i> The quality of wastewater is improved by 65% COD reduction. The effluent will be used as liquid fertilizer in nearby sugar field. There will be no discharge in the receiving water. Water will not enter the ground water anymore, thus improving groundwater quality. The water treatment	Levels of BOD, COD and releasing rate. Water consumption.	+

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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
		enable reuse of water in the factory thus reducing use of fresh water.		
Soil condition		<p>Ensure Environmental Sustainability (Goal 7) <i>7.6 Proportion of terrestrial and marine areas protected</i></p> <p>No significant impact to geology and soil is expected as the project is located on an existing wastewater treatment area. Therefore, the quality of soil will not be affected.</p>	COD, BOD	0
Other pollutants		-	none	0
Biodiversity		<p>Ensure Environmental Sustainability (Goal 7) <i>7.B Reduce biodiversity loss</i></p> <p>This project does not affect biodiversity as it is located in an existing factory area.</p>	none	0
Quality of employment		<p>Eradicate Extreme Poverty and Hunger (Goal 1) <i>1.B. Achieve full and productive employment and decent work for all, including woman and young people.</i></p> <p>People in that area are not suffering extreme poverty and hunger</p> <p>The project creates 70 temporary jobs during 18 months of construction and 28 permanent jobs at different qualification</p>	number of workers employed thanks to the project activity.	+

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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
		<p>for operation.</p> <p>The technology provider is committed to provide operation and maintenance training to KI Biogas staffs and will supervise for the first year operation.</p> <p>Less odour and an increase in environmental awareness will be achieved</p>		
Livelihood of the poor		<p>Eradicate Extreme Poverty and Hunger (Goal 1) <i>1.B.Achieve full and productive employment and decent work for all, including woman and young people.</i></p> <p>The population in that area is not suffering extreme poverty and hunger</p> <p>The project creates 70 temporary jobs during 18 months of construction and 28 permanent jobs at different qualification for operation. The local people will be considered on first priority for each position.</p> <p>The social support program will definitely have a positive impact on the livelihood of the people sustainable development and education program of the Project Developer</p>	Change in traditional fuel consumption calculated as the amount of	+

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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Access to affordable and clean energy services	None	Biogas will be used as an alternative energy source (instead of fossil fuel) to generate electricity	Change in traditional fuel consumption calculated as the amount of electricity produced by the project and fed into the grid	+
Human and institutional capacity	None	<p>Achieve Universal Primary Education (Goal 2) <i>2.A. Primary schooling</i></p> <p>KI Biogas is setting up a budget for social contribution such as support local activity, support education of the poor by giving scholarship. (see also indicator "Livelihood of the poor") Environmental awareness rising. Some workers will be trained to increase know-how and capacity on taking care the digester system.</p>	<p>Number of population with access to education</p> <p>Number of trained worker.</p>	+
Quantitative employment and income generation	None	<p>Eradicate Extreme Poverty and Hunger (Goal 1) <i>1.B. Achieve full and productive employment and decent work for all, including woman and young people.</i></p> <p>The project creates 70 temporary jobs during 18 months of construction and 28 permanent jobs at different qualification for operation.</p>	Number of jobs and household income generated by the project	+
Balance of payments and investment	-	Develop a Global Partnership for Development (Goal 8)	CER revenues and electricity sales	+

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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Technology transfer and technological self-reliance	-	<p>Develop a Global Partnership for Development (Goal 8)</p> <p>The technology is replicable and will induce more installations in similar agricultural sectors or wastewater treatment conditions</p>	<p>R&D Expenditure</p> <p>Number of training-related opportunities</p> <p>Number of future replicated installations</p>	+
Justification choices, data source and provision of references				
Air quality	<ol style="list-style-type: none"> 1. Department of Industrial work. 2008. industrial management manual, Thailand. http://www2.diw.go.th/l_standard/index.html. 2. Pollution Control Department, Factory air emission standard, http://www.pcd.go.th/info_serv/reg_std_airsnd03.html. 3. Initial Environmental Evaluation (6.1 Physical Natural Resources, page 15) 			
Water quality and quantity	<ol style="list-style-type: none"> 1. KI Biogas Co.,Ltd. Wastewater Treatment and Energy Generation, Nakhon Rachasima PDD, A.4.3. Technology to be employed by the project activity. 2. Initial Environmental Evaluation (6.1 Physical Natural Resources, page 14-15) 			
Soil condition	1. Initial Environmental Evaluation (6.1 Physical Natural Resources, page 14)			
Other pollutants	none			
Biodiversity	1. Initial Environmental Evaluation (6.2 Biological Natural Resources, page 16)			
Quality of employment	1. Initial Environmental Evaluation (6.3 Human's access to natural and infrastructural resources, page 17)			
Livelihood of the poor	1. Initial Environmental Evaluation (6.4 Quality of life, page 17)			
Access to affordable and clean energy services	1. KI Biogas Co.,Ltd. Wastewater Treatment and Energy Generation, Nakhon Rachasima PDD, A.2. Description of the project activity, page 2			
Human and institutional capacity	1. Initial Environmental Evaluation (6.4 Quality of life, page 17)			
Quantitative employment and income generation	1. Initial Environmental Evaluation (6.3 Human's access to natural and infrastructural resources, page 17)			

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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Balance of payments and investment	Financial Feasibility of the project			
Technology transfer and technological self-reliance	1. KI Biogas Co.,Ltd. Wastewater Treatment and Energy Generation, Nakhon Rachasima PDD, A.4.3. Technology to be employed by the project activity.			

SECTION G. Sustainability Monitoring Plan

No	1	
Indicator	Water quality	
Mitigation measure	None	
<i>Repeat for each parameter</i>	-	
Chosen parameter	Level of COD at the digester outlet	
Current situation of parameter	NA	
Future target for parameter	Meet environmental quality standard	
Way of monitoring	How	Method US EPA 410.4. 50
	When	Monthly basis
	By who	KI Biogas (Project owner)

No	2	
Indicator	Air quality	
Mitigation measure	None	
<i>Repeat for each parameter</i>	-	
Chosen parameter	Odour	
Current situation of parameter	NA	
Future target for parameter	Meet environmental quality standard	
Way of monitoring	How	Record of complaints
	When	Up to complaints
	By who	KI Biogas (Project owner)

No	3	
Indicator	Quantitative employment and income generation	
Mitigation measure	None	
<i>Repeat for each parameter</i>	-	
Chosen parameter	Average salary	
Current situation of parameter	NA	
Future target for parameter	Fulfilment of labour standards comply with average salary at project .	
Way of monitoring	How	Record of salary data
	When	Yearly basis
	By who	KI Biogas (Project owner)

No	4	
Indicator	Employment	
Mitigation measure	None	
<i>Repeat for each parameter</i>	-	
Chosen parameter	Monthly number of staff	
Current situation of parameter	NA	
Future target for parameter	Number of employee	
Way of monitoring	How	Record of data
	When	Monthly basis
	By who	KI Biogas (Project owner)

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No	5	
Indicator	Balance of payment	
Mitigation measure	None	
<i>Repeat for each parameter</i>	-	
Chosen parameter	Monthly electricity sales income	
Current situation of parameter	NA	
Future target for parameter	Meet balance payment	
Way of monitoring	How	Record of data
	When	Monthly basis
	By who	KI Biogas (Project owner)

No	6	
Indicator	Project replicability/ Technology Transfer	
Mitigation measure	None	
<i>Repeat for each parameter</i>	-	
Chosen parameter	Applications of similar projects	
Current situation of parameter	NA	
Future target for parameter	Meet the goal of the project	
Way of monitoring	How	Collect data from Ministry of Industry and Ministry of Energy
	When	Yearly basis
	By who	KI Biogas (Project owner)

Additional remarks monitoring

Monitoring of sustainable development benefits

In addition to monitoring baseline and project emissions, the actual project performance in terms of sustainable development benefits will be assessed on an annual basis. Based on the results of the first stakeholder consultation and the resulting evaluation on social, environmental and technical sustainability in the beginning of 2009, the most sensitive sustainable development indicators have been determined. As summarized in the table above, they will be monitored on a yearly basis. People from surrounding communities will be informed periodically by KI Biogas on the monitoring results.

Data to be collected in order to monitor the project's performance on the most sensitive sustainable development indicators

Referring to the items in the table, the following monitoring system will be introduced:

- # 1. Monitoring of the COD of the effluent at the digester outlet
- # 2. Based on the existing complaints-system of the Ministry of Natural Resources and Environment, complaints with regard to offensive smells will be recorded. KI Biogas will regularly collect the information and will add them to the overall monitoring report.
- # 3. + 4. KI Biogas will keep record of project-related employment and will add respective information to the overall monitoring report.
- # 5. Based on production statistics and records on fuel consumption, KI Biogas monitors the reduction of fossil fuel and related savings.
- # 6. KI Biogas will request for information from the Ministry of Industry and Ministry of Energy on applications of similar projects on a yearly basis.

Additional remarks monitoring

SECTION H. **Additionality and conservativeness**



This section is only applicable if the section on additionality and/or your choice of baseline does not follow Gold Standard guidance

H.1. **Additionality**

Refers to PDD section B.5. Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered CDM project activity (assessment and demonstration of additionality)

H.2. **Conservativeness**

Approved Consolidated Methodology ACM0014 “Mitigation of greenhouse gas emissions from treatment of industrial wastewater”, Version 3, valid from 13 February 09 onwards.
The methodology also refers to
the “Tool for the demonstration and assessment of additionality” (version 5.2)
the “Tool to determine project emissions from flaring gases containing methane” (version 01),
the “Tool to calculate the emission factor for an electricity system” (version 01.1)
the “Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion (version 02)”
and
the “Tool to estimate the baseline, project and/or leakage emissions from electricity consumption (version 01)”. This tool is referring to the “Tool to calculate the emission factor for an electricity system (version 01)”.

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As a result of the design of the project activity, the “Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion” is not relevant. All other tools will be applied.

ANNEX 1 ODA declarations

Governmental Funding is involved in the project activity that supports the voluntary implementation of Biogas Digester. This Governmental Fund is not based on ODA (see ODA declaration of the related governmental organization Figure 4 ODA declaration of the related governmental organization (Energy Policy and Planning Office, Ministry of Energy, Thailand)). Besides that, the project will be financed through the company and through private bank financing.



Notification of the Energy Policy and Planning Office
Affirmation of the Financial Assistance Provided under
the Project on Biogas Technology Promotion for Industrial Facilities

The Energy Policy and Planning Office (EPPO), in the capacity as Secretariat to the Energy Conservation Promotion Fund (the Fund), has formulated a **Biogas Technology Promotion Plan 2008-2011**. To implement the plan, a **Project on Biogas Technology Promotion for Industrial Facilities** has been initiated with a view to inviting potential industrial operators, wishing to invest in the construction of a biogas system for on-site wastewater or solid waste management, to submit proposals for funding from the Fund. The **objective** of the Biogas Technology Promotion Plan/Project is to provide financial assistance to various types of industrial facilities in order to boost wider application of biogas technology, on a voluntary basis, in Thailand. This will be a means to encourage clean energy development, which will bring about reduction of greenhouse gas emissions and also solution to environmental problems in a sustainable manner.

EPPO wishes to hereby affirm that the financial assistance provided under the **Project on Biogas Technology Promotion for Industrial Facilities** is allocated from the Fund, of which the revenue is currently from contributions pursuant to Section 24(2) of the Energy Conservation Promotion Act, B.E. 2535 (1992), as amended up to No. 2, B.E. 2550 (2007), delivered by producers of petroleum at refineries and petroleum importers for distribution within Thailand. The Fund does not receive any money or asset from the private sector, both local and overseas, or from any foreign governments or international organizations, to be used for the implementation of programs/projects under the Fund.

Announced on January 2009

(Viraphol Jirapraditkul)

Director-General Energy Policy and Planning Office

Figure 4 ODA declaration of the related governmental organization (Energy Policy and Planning Office, Ministry of Energy, Thailand)

Main sponsors

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