

GOLD STANDARD PASSPORT

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SECTION A. Project Title

[See Toolkit 1.6]

Biogas Utilization Project in Zhejiang Jingxing Paper Joint Stock Co. Ltd.

SECTION B. Project description

[See Toolkit 1.6]

The main purpose of the project activity (hereafter also referred to as Project) is to install a biogas-capturing device and a biogas based electricity generation system in the existing wastewater treatment system at the paper mill of Zhejiang Jingxing Paper Joint Stock Co. Ltd. Zhejiang Jingxing Paper Joint Stock Co. Ltd. has a paper production capacity of 600,000 tons per year. The production process produces up to 5,100,000 m³ of wastewater per year, which is sent to an onsite wastewater treatment system. As a part of the treatment process, the anaerobic digester system releases a methane rich biogas. The current anaerobic wastewater treatment system reduces the COD concentration of the wastewater from 4,000 mg/l to 1000 mg/l. After the anaerobic digesters the wastewater passes through an aerobic treatment stage before is discharged into the municipal wastewater treatment plant for further treatment through a channel.

The project construction was started on 13/12/2008. After implementation of the project activity, the biogas will be used for electricity generation. Power generation will be consumed on site in the paper mill. The project activity consists of implementing a biogas recovery system, a biogas purification device, and a power generation system. The biogas purification through desulphurization devices is required for utilisation of the biogas as a fuel. In total, four gas-fired engines will be installed, and each with installed capacity of 500kW. However, one of the four generators will be a back up in order to meet the varied flow of biogas. The project activity is expected to supply 10,914MWh of electricity per year, displacing fossil fuel based electricity from the grid.

The project activity will lead to green house gas (GHG) emission reductions in a twofold manner: (a) it will avoid methane emissions by capturing the biogas and using it as a fuel, and (b) it will displace fossil fuel based electricity from the Grid. The project activity is expected to avoid 49,993 tCO₂e per year by capturing the biogas and around 8,540 tCO₂e per year through displacement of electricity from the grid. The total expected amount of emission reductions is 58,533 tCO₂e.

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Contribution to Sustainable Development of the Project

- Human and institutional capacity (including empowerment, education, involvement, gender)
People involved are trained with skills for operation of the power generation facility and knowledge of Kyoto Protocol. This is the first time local people in are organised to work on a project under the Kyoto Protocol.
- Employment (numbers)
Proposed project generates 10 working positions.
- Technology transfer and technological self-reliance
The project activity is the first of its kind in local region and the workers are trained for the new technology via workshops. Therefore know-how is promoted and this indicator is scored positively.







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SECTION C. Proof of project eligibility

C.1. Scale of the Project

[See Toolkit 1.2.a]

Please tick where applicable:

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

[See Toolkit 1.2.b]
China

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C.3. Project Type

[See Toolkit 1.2.c and Toolkit Annex C]

Please tick where applicable:

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

Please justify the eligibility of your project activity:

The Project is a 'biogas recovery and utilization for electricity generation' project and the electricity is for on-site consumption only.

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

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C.4. Greenhouse gas

[See Toolkit 1.2.d]

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

C.5. Project Registration Type

[See Toolkit 1.2.f]

Project Registration Type	
Regular	<input type="checkbox"/>

Pre-feasibility assessment	Retroactive projects (T.2.5.1)	Preliminary evaluation (eg: Large Hydro or palm oil-related project) (T.2.5.2)	Rejected by UNFCCC (T2.5.3)
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If Retroactive, please indicate Start Date of Construction dd/mm/yyyy: 13/12/2008

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SECTION D. Unique project identification

D.1. GPS-coordinates of project location

[See Toolkit 1.6]

	Coordinates
Latitude	N30°41'56"
Longitude	E120°58'01"



Explain given coordinates

D.2. Map



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SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

In order to comply with CDM requirements a survey was carried out near the project site during May 2010, in which opinions from local stakeholders were collected and possible risks incurred by the Project activity were mitigated. The survey was performed with the following steps and all the documents and oral presentations during the survey were in Chinese (local language).

1: identify the possible stakeholders.

The nearest village to the Project site is Qin'an village (200m). There are also other factories near the Project (within a 500 m range).

The village people from the nearby villages, the staff working for these factories and the Project staff are seen as stakeholders who might be impacted by this biogas recovery and utilization project directly or indirectly.

2: Select survey method

Considering the relatively low education level of villagers and tight working schedule of plant staff a questionnaire was distributed plus a face-to-face explanation was the method adopted.

The Project Owner took questionnaires to the villages and plants and distributed them to the local people on a random basis without selecting specific residents. The Project Owner handed out the questionnaires to those people he met during his visit. At the same time, easy to understand explanations were given and questions were answered face-to-face.

3: Design questionnaire

The questionnaire contained the following questions covering social, environmental and economical impacts during both the construction and operation periods. All the questions were written in non-technical language to ensure the local people could understand them.

1. Do you know the methane recovery and utilization project in Jingxing Paper Co., Ltd?
2. What kind of impact do you think will the project exert on the local environment?
3. Do you think the project will promote the local economic development?
4. What is your attitude towards the project?
5. Do you support the project to apply for CDM?

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6. Do you have any comments or advices?

4 : Analyze outcome

In total 30 questionnaires were filled-in. The stakeholders who handed back their filled-in questionnaires included local governmental officials, local residents and employees of the paper plant. Major conclusions drawn from the survey are summarized as follows:

97% people involved in the survey have known the project, 3% did not know.

94% people believed the project would improve local environmental quality, 6% didn't know.

97% people believed the project would promote local economic development, 3% did not care.

97% people supported the project, 3% did not care.

100% people supported the project to apply for CDM.

No comments or advices were received during the survey

E.2. Stakeholder Feedback Round

Please describe report how the feedback round was organised, what the outcomes were and how you followed up on the feedback.

[See Toolkit 2.11]

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SECTION F. Outcome Sustainability assessment

F.1. 'Do no harm' Assessment

Based on the guidance in Toolkit 2.4.1 and Toolkit Annex H, all safeguarding principles have been checked in regards to their applicability to the project. The safeguarding principle and relevance to the project is identified below:

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	Safeguarding Principles	Description of relevance to my project	Assessment of my project risks breaching it (low/medium/high)	Mitigation measure
	Human Rights			
1	The project respects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people. The project is not complicit in Human Rights abuses.	The <i>Constitution of the People's Republic of China</i> ¹ regulates that the nation respect and protect human rights including dignity, cultural property and uniqueness of indigenous people. Jingxing is an enterprise which completely obey the nation and local laws. Furthermore, there is no complain and accusation regarding human right happens in Jingxing so far.	Low	N.A.
2	The project does not involve and is not complicit in involuntary resettlement	The project activity was built inside the paper factory; there is no need of land from local residents. Hence, resettlement cannot happen for project activity	N.A.	N.A.
3	The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	There is no critical cultural heritage located in project site, therefore alteration, damage or removal of any critical cultural heritage don't exist	N.A.	N.A.
	Labour Standards			
4	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	Labour Law of the People's Republic of China ² and Law of the people's republic of China of employment contract ³ respect the right of freedom of association and collective bargaining	Low	N.A.
5	The project does not involve and is not complicit in any form of	to employees; these laws also forbid any form of	Low	N.A.

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	forced or compulsory labour.	forced or compulsory labour, child labour and discrimination based on ethnic group, gender, race and religion.		
6	The project does not employ and is not complicit in any form of child labour	Jingxing completely	Low	N.A.
7	The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	follow these two laws and most of the equipments of this project are automatic, the work environment is safe and healthy.	Low	N.A.
8	The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments		Low	N.A.
	Environmental Protection			
9	The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle. This principle can be defined as: "When an activity raises threats of harm to human health or the environment, precautionary measures should be taken even if some cause and effect relationships are not fully established scientifically."	No significant impact of noise and dust will be caused by the project, as the PO will follow instructions from the EIA.	Low	N.A.
10	The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats, including those that are (a) legally protected, (b) officially proposed for protection, (c) identified by authoritative sources for their high conservation value or (d) recognised as protected by traditional	The project locates inside the paper industry area, which does not involve any natural habitats.	N.A.	N.A.

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	local communities			
	Anti-Corruption			
11	The project does not involve and is not complicit in corruption	This project complies with the Criminal Law and predecessor regulations ⁴ , which includes Anti-corruption.	Low	N.A.
¹ http://baike.baidu.com/view/9353.htm ² http://baike.baidu.com/view/7300.htm?fr=ala0#7 ³ http://baike.baidu.com/view/1021776.htm?fr=ala0 ⁴ http://news.xinhuanet.com/zhengqing/2001-12/03/content_171467.htm				

F.2. Sustainable Development matrix

As this project is a retroactive project the following table reflects the Project Participants' opinion on the Sustainable Development.

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Final 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			Biogas used in the project activity is cleaned (by removing the dust and sulphur) before combustion	0

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			<p>and exhausted flue gas will be cleaned again and then released through a high chimney. Without project activity, the waste gas is directly emitted into the atmosphere. Therefore, with project activity, quantities of H₂S, SO₂ and NO_x contained in the flue gas are very likely to be lesser than in the situation without project activity. This would improve the local air quality. This positive impact is especially significant beside the wastewater treatment station. However in the greater surrounding, the impact might be more marginal. Therefore and in order to ensure conservativeness, this indicator is scored neutral.</p>	
Water quality and quantity			<p>The project only consumes a small amount of water for cooling engines. This is very similar to the baseline situation. Therefore, because there is no significant impact on the water quantity and quality, we score this indicator neutral.</p>	0
Soil condition			<p>In absence of the project, Jingxing uses the electricity from the power grid. In East China Power Grid, most of the electricity is generated by coal; in this process waste solid is generated. But a biogas recovery based power station would not have any significant solid waste. This indicator has a positive impact but due to the capacity of project activity is not a very big size, we score it neutral as the impact is only minor.</p>	0
Other pollutants			<p>Firstly, the PO adopted two approaches to effectively</p>	0

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			<p>reduce the noise: one is from the source of noise, facilities of low noise were installed and measures of noise reduction were implemented; the other one is to control the spread of noise, green plants were planted around the factory. Therefore, there is no significant difference compared with baseline scenario for other pollutants.</p>	
Biodiversity			<p>As compared to the baseline, no significant change in biodiversity is expected since the project only takes place within the plant boundary.</p>	0
Quality of employment			<p>Most of the operations of biogas power plant are automatic, therefore, project managers and operators in the plant will work in a comfortable procedure room, considering health and safety, and the project will also provide long-term jobs. Although the quality of employment has improved, we chose a neutral score out of conservative reasons as the benefits for this indicator are comparable to the ones for technology transfer. Therefore this indicator was scored with '0'</p>	0
Livelihood of the poor			<p>As compared with the baseline, no significant change is expected. The project employs only 10 people; thus will not exert a considerable impact on local labour market and the average salary level.</p>	0
Access to affordable and clean energy services			<p>Compared with the baseline, electricity supplied by this project is usage of affordable and clean energy, not of traditional</p>	0

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			fossil fuel. This indicator is scored 0 to maintain conservativeness.	
Human and institutional capacity			<p><u>Parameters:</u> female employed</p> <p>There is less dependence on heavy male labour force, the project provides more positions for women compared with baseline. This indicator has a positive impact.</p>	+
Quantitative employment and income generation			<p><u>Parameter:</u> number of employment created</p> <p>The project has created about 10 employment opportunities for the local community. Thus this indicator is scored positive.</p>	+
Balance of payments and investment			Compared with baseline scenario, there is no significant difference in terms of balance of payments and investment because the project will not impact the PO's trade, neither will the PO import any equipment for the project.	0
Technology transfer and technological self-reliance			<p><u>Parameters:</u> training provided to the workers</p> <p>The project activity is the first of its kind in local region and the workers are trained for the new technology via workshops. Therefore know-how is promoted and this indicator is scored positively.</p>	+
<p>Justification choices, data source and provision of references (please note that exact page numbers will be added once the final reports (EIA and FSR) are available)</p>				
Air quality	According to EIA, local air quality will be improved by the project. The indicator is scored 0 in order to ensure the conservativeness.			
Water quality and quantity	<p>Water quality: in EIA, it states that no wastewater will be generated by the project except sewage water from employees. Furthermore, the sewage will be treated by sewage water treatment plant therefore will not impact the local water quality.</p> <p>Water quantity: in EIA, it states the project will not impact the local water environment including the water quantity.</p>			

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Soil condition	As described in EIA, the project activity would not have any significant waste solid generation.
Other pollutants	EIA mentions the measures of noise reduction, according to which the noise of power house will not impact nearby residents.
Biodiversity	EIA mentions the project would not impact the local biodiversity because the project is located in the existing paper plant.
Quality of employment	FSR mentions that most of the operations of power plant are automatic; this will reduce heavy physical works for the employees and expand the work opportunity for women. Although the quality of employment has improved, we chose a neutral score out of conservative considerations as the benefits for this indicator are comparable to the ones for technology transfer.
Livelihood of the poor	The project will generate additional income to people involved. But compared to the local population, it is a small amount. So there is no significant change expected.
Access to affordable and clean energy services	Zhejiang online website News: http://zjnews.zjol.com.cn/05zjnews/system/2010/01/08/016216531.shtml From the news provided by above link, the coal supply was very tight in Zhejiang. The grid company needed to cut electricity to some industrial users to supply power to some consumers with higher priority.
Human and institutional capacity	EIA states that 10 employees will be employed. The PO foresees also women for these positions in his employment plan. All those positions can be handled by women, except mechanical maintenance and repairing.
Quantitative employment and income generation	EIA states that 10 employees will be employed; HR data provided by the project.
Balance of payments and investment	The project will not impact the paper plant's producing capacity, neither import equipments from international market, therefore no impact on balance of payments.
Technology transfer and technological self-reliance	The project will install equipments , which have not been widely used in the industry and provide training to the workers.

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SECTION G. Sustainability Monitoring Plan

[See Toolkit 2.4.3 and Toolkit Annex I]

No	1	
Indicator	Eligibility criteria	
Mitigation measure	N/A	
<i>Repeat for each parameter</i>		
Chosen parameter	Ratio of biogas consumed by the generators	
Current situation of parameter	The same as future target for parameter	
Estimation of baseline situation of parameter	0%	
Future target for parameter	100%	
Way of monitoring	How	The biogas consumed will be calculated based on temperature pressure and flow, the amount destructed by the torch can be monitored as well, therefore the ratio can be determined applying the two values.
	When	Continuously
	By who	Local EPA

No	2	
Indicator	Human and institutional capacity	
Mitigation measure	N/A	
<i>Repeat for each parameter</i>		
Chosen parameter	Female employed	
Current situation of parameter	The same as baseline situation of parameter	
Estimation of baseline situation of parameter	0	
Future target for parameter	> 0	
Way of monitoring	How	HR data
	When	During verification
	By who	PO

No	3	
Indicator	Quantitative employment and income generation	
Mitigation measure	N/A	
<i>Repeat for each parameter</i>		
Chosen parameter	Employment created	
Current situation of parameter	The same as future target	
Estimation of baseline situation	0	

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of parameter		
Future target for parameter		10
Way of monitoring	How	HR data
	When	During verification
	By who	PO

No	4	
Indicator	Technology transfer and technological self-reliance	
Mitigation measure	N/A	
<i>Repeat for each parameter</i>		
Chosen parameter	Trainings provided	
Current situation of parameter	One training has already been provided.	
Estimation of baseline situation of parameter	0	
Future target for parameter	Training will be provided each time a new employee is enrolled or new equipment installed	
Way of monitoring	How	Training record
	When	During verification
	By who	PO

Additional remarks monitoring

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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

[See Toolkit 2.3]

see PDD B.5.

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H.2. Conservativeness

[See Toolkit 2.2]

All parameters used in the ER calculation are from the methodology and Chinese DNA, its conservativeness has been committed by the EB; furthermore, all uncertainties have been taken into account to maintain the conservativeness.

In the methodology AMS III.H approved by the CDM EB, there is only one approach to calculate the emission reductions ex-ante, therefore no possibility to choose other approach and get another result; the conservativeness is absolutely ensured under CDM.

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ANNEX 1 ODA declarations

Date 24/06/2010
Project reference
To: Gold Standard Foundation

Declaration of Non-Use of Official Development Assistance by Project Owner

Zhejiang Jingxing Paper Joint Stock Co. Ltd.

As Project Owner of the above-referenced project, acting on behalf of all project participants,

I now make the following representations:

[Authorised Representative:]

I hereby declare that I am duly and fully authorised by the project owner of the above-referenced project, acting on behalf of all project participants, to make the following representations on Project Proponent's behalf:

I. Gold Standard Documentation

I am familiar with the provisions of Gold Standard Documentation relevant to Official Development Assistance (ODA). I understand that the above-referenced project is not eligible for Gold Standard registration if the project receives or benefits from Official Development Assistance under the condition that some or all credits coming out of the project are transferred to the ODA donor country. I now expressly declare that no financing provided in connection with the above-referenced project has come from or will come from ODA that has been or will be provided under the condition, whether express or implied, that any or all of the credits [CERs, ERUs or VERs] issued as a result of the project's operation will be transferred directly or indirectly to the country of origin of the ODA.

II. Duty to Notify Upon Discovery.

If I learn or if I am given any reason to believe at any stage of project design or implementation that ODA has been used to support the development or implementation of the project, or that an entity providing ODA to the host country may at some point in the future benefit directly or indirectly from the credits generated from the project as a condition of investment, I will make this known to the Gold Standard immediately.

III. Sanctions. I am fully aware that under Section 10 of the Gold Standard Terms and Conditions sanctions and damages may be incurred for the provision of false information related to Projects and/or Gold Standard credits.

Signed:
Name:  Zhu Zailong
Title: Legal Representative
On behalf of:

