The Gold Standard
Premium quality carbon credits

GOLD STANDARD PASSPORT

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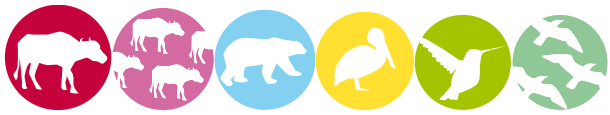

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SECTION A. Project Title

[See Toolkit 1.6]
InfraVest Taiwan Wind Farms Bundled Project 2011

SECTION B. Project description

[See Toolkit 1.6]

The proposed project is a bundle of four wind energy projects, "*InfraVest Fongwei Wind farm project, Taiwan*", "*InfraVest Longwei Wind farm project, Taiwan*", "*InfraVest Chungwei Wind farm project, Taiwan*", "*InfraVest Tauwei Wind farm project, Taiwan*". It shall not be debundled into separate projects in the future.

Summary

The project involves the development of four wind farms in Taiwan:

- *InfraVest Fongwei Wind farm project, Taiwan:* a 13.8 MW (6 x 2.3 MW) onshore wind farm located in Hsinfong Township (therefore also called *Hsinfong Wind farm*), Hsinchu County, which comprises 6 wind turbines (hereafter : **Fongwei wind farm**)
- *InfraVest Longwei Wind farm project, Taiwan* a 44.1 MW (18 x 2.3 MW + 3 x 0.9 MW) onshore wind farm in Houlong Township (therefore also called *Houlong Wind farm*), Miaoli County, which comprises 21 wind turbines (hereafter : **Longwei wind farm**)
- *InfraVest Chungwei Wind farm project, Taiwan* a 29.9 MW (13 x 2.3 MW) onshore wind farm in Dajia and Da-An Townships, Taichung County, comprises 13 wind turbines. (hereafter : **Chungwei wind farm**)
- *InfraVest Tauwei Wind farm project, Taiwan* a 4.6 MW onshore wind farm in Guanyin Township (also called *Hsinwu Wind farm*), in Taoyuan County, which comprises 2 wind turbines (hereafter : **Tauwei wind farm**)

The above-mentioned wind farms are constructed and operated by InfraVest Wind Power Group (hereafter InfraVest), which is a subsidiary of Germany based VWind AG. The project in total comprises 39 *Enercon E-70* wind turbines with the unit capacity of 2.3MW and 3 *Enercon E-44* wind turbines with the unit capacity of 0.9 MW. The total installed capacity of the proposed bundled project is 92.4 MW. At full capacity, the aggregated output of the project is expected to be of 225,440 MWh/year, which is to be delivered to the state-owned power grid, Taipower. Accordingly, the project will lead to carbon dioxide emission reduction since it will avoid the use of fossil fuel in the electricity generating system. The annual emission reductions are estimated as 171,559 tCO_2e/year.

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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
	☐	☐
	☐	☐
	☐	☐
	☑	☐
	☐	☐
		☐

C.2. Host Country

[See Toolkit 1.2.b]
Taiwan, Republic of China

Taiwan is not a UN member thus it does not ratify Kyoto Protocol and cannot be part of UNFCCC. Taiwan also has no compliance cap-and-trade regulation in place.

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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?	☑	☐
Does your project activity classify as an End-use Energy Efficiency Improvement project?	☐	☑

Please justify the eligibility of your project activity:

The proposed project implements wind power generating technology from the well-known energy company, Enercon GmbH. The total installed capacity of the project is 92.4 MW. Therefore, this proposed project activity generates and delivers energy service (i.e. electricity) from a non-fossil and non-depletable energy sources; which fits the definition of Renewable Energy Supply, and is eligible for Gold Standard registration.

Pre Announcement	Yes	No
Was your project previously announced?	☐	☑
Explain your statement on pre announcement Not applicable		

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C.4. Greenhouse gas

[See Toolkit 1.2.d]

Greenhouse Gas	
Carbon dioxide	☑
Methane	☐
Nitrous oxide	☐

C.5. Project Registration Type

[See Toolkit 1.2.f]

Project Registration Type	
Regular	☑

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)
	☐	☐	☐

If Retroactive, please indicate Start Date of Construction dd/mm/yyyy:_____

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SECTION D. Unique project identification

D.1. GPS-coordinates of project location

[See Toolkit 1.6]

Tauwei Wind Farm	Coordinates
Latitude	25° 02' 43" N
Longitude	121° 04' 21" E

Fongwei Wind Farm	Coordinates
Latitude	24° 55' 48" N
Longitude	120° 58' 40" E

Longwei Wind Farm	Coordinates
Latitude	24° 36' 41" N
Longitude	120° 44' 13" E

Chungwei Wind Farm	Coordinates
Latitude	24° 24' 21" N
Longitude	120° 35' 59" E

Explain given coordinates

N/A

D.2. Map

[See Toolkit 1.6]

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SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

[See Toolkit Annex J]

[See Local Stakeholder Consultation Report B.5 and insert table from ii Assessment of comments. Insert a summary of alterations based on comments]
A local stakeholder consultation meeting was held for the proposed project. A questionnaire sample is attached in Annex 2. The local community were involved in the consultation process of the proposed project through inviting the local residents and the community representatives to the stakeholder consultation meeting. Invitations were sent out to all villages and counties that might be impacted by the project bundle, including areas of the four wind farms. Most of the invitations were delivered in person to the village heads and community representatives; this is aimed to encourage them to gather the residents (men and women) in their community to join the meeting. This approach is considered more effective to invite the local people as compared to putting announcements through media or at local offices. From 20 invitations delivered to the local representatives, around 60 stakeholders, from different villages and counties where

the four wind farms located, including the Guanyin Township Mayor, local residents, community representatives, village heads, county/township officers attended the stakeholder consultation meeting, among which 25 were women.

All GS NGO supporters and local GS expert located at the nearest region to the project (China) are invited to the meeting through email invitations. The local NGO invited at the stakeholder consultation is NEAT Taiwan (New Energy Association of Taiwan), which is an independent local NGO focusing on the climate sustainability, and the development of the clean, efficient energy technologies in the region. This NGO has a touch-base experience in the renewable energies cultivation than other NGOs in the region. Given the organization's background, it was expected to present an objective perspective regarding the proposed project development.

Date/Time: January 3rd, 2011/11:00 am (GMT +08:00)
Location: 131-8, Haipu Village 8th Lane, Houlong Township, Miaoli County, Taiwan R.O.C.
List of Attendants:

Name participant	**Job/position in the community**	**M/F**	**Organisation (if relevant)**
Guan, Shao-Dong	Local resident	M	Guanyin Haipu Village
Peng, Zhen-Tian	Local resident, Village Head	M	Datan Village
Su, Zhi-Yin	Local Resident	M	Guanyin Township Office Head of Planning Department
Zhan, Sen-Yan	Local Resident	M	Guanyin Township Office Member of Agriculture and Economic Division
Lin, Jia-Ling	Local Resident	F	Guanyin Township Office Member of Administration Division
Guo, Wen-Liang	Local Resident	M	Jianxing Village
Lin, Jia-Zhu	Local Resident	M	Jianxing Village
Zheng, Da-Cheng	Local Resident	M	Jianxing Village
Zhang, Jian-Yi	Local Resident	M	Jianxing Village
Huang, Qing-Yuan	Local Resident	M	Jianxing Village
Guo, Tian-Fu	Local Resident	M	Jianxing Village
Wang, Xi-Mei	Local Resident	F	Jianxing Village
Yang, Qing-Shan	Local Resident	M	Jianxing Village
Ye, Li-Yun	Local Resident	F	

	Zheng, Qian	Local Resident	M	
	Qiu, Su-Si	Local Resident	F	
	Geng, A-Min	Local Resident	F	
	Lin, Jin-Zhen	Local Resident	F	
	Liang, Yi-Yuan	Local Resident	M	
	Qiu, Shu-Zi	Local Resident	F	
	Huo, Yue-Zhao	Local Resident	F	
	Xu, Huang	Local Resident, Haibao Village Head	M	Haibao Village
	Huang, Han-Ji	Local Resident, Chairman	M	Haibao Village
	Xie, Hai-Shan	Local Resident, Village Head	M	Dazhuang Village
	Zhu, Han-Long	Local Resident, Chairman of Residents Representatives Commission	M	Beilong Village Residents Representatives Commission
	Liu, Wen-Guo	Local Resident,	M	Xinmin Village
	Guo, Mei-Hua	Dashan Village Head	F	Dashan Village
	Yang, Qing-Lan	Local Resident	F	Jianxing Village
	Shao Li, Cai-Tou	Local Resident	F	Jianxing Village
	Zheng, Cai-Feng	Local Resident	F	Jianxing Village
	Yang, Chen-Zhuan	Local Resident	M	Jianxing Village
	Zheng, Jin-Ying	Local Resident	F	Jianxing Village
	Lin Zhu, Yu-Feng	Local Resident	F	
	Guo, Jin-Lai	Local Resident	M	
	Guo, Rong-Fu	Local Resident	M	
	Zheng, Yue-Xia	Local Resident	F	
	Luo, Si-Xiu	Local Resident	F	
	Yang, Fang-San	Local Resident	M	
	Yang, Sheng-Fang	Local Resident	M	
	Zheng, Si-An	Local Resident	F	
	Liu, Mei-Jin	Local Resident	F	
	Lu, Ting-Zheng	Head Office	M	Nanya Electric
	Geng, Mei-Zu	Local Resident	F	
	Zou, Su-Zhen	Local Resident	F	
	Lu, Ting-Ju	Local Resident	M	
	Lu, Mei-Jun	Local Resident	F	
	Zou, Zhu-Ying	Local Resident	F	
	Lu, Chao-Zun	Local Resident	M	

Hong, Ya-Hui	Local Resident	F	
Cai, Ming-He	Local Resident, Village Head	M	Jianxing Village
Mou, Yan-Qing	Local Resident, Village Head	M	Fude Village
Zhuang, Ming-Yao	Local Resident, Village Head	M	Zhongzhuang Village
Huang, Yuan-Ri	Local Resident, Representative Chairman	M	Guanyin Township Residents Representatives Commission
Liu, Hong-Chang	Local Resident	M	Guanyin Township Office
Huang, Xiu-Yun	Local Resident, Village Head	F	Baosheng Village
Xie, Chun-Wen	Local Resident, Office Secretary	M	Guanyin Township Office
Lin, Qing-Jing	Local Resident, Chief Office Secretary		Guanyin Township Office
Chen, Jiang-Shun	Local resident, Chairman of Residents Representatives Commission		Guanyin Township Residents Representatives Commission
Ou, Bing-Zhen	Local resident, Mayor		Guanyin Township Office
Xu, Geng-Sheng	Local resident		Guanyin Township Office

During the local stakeholder consultation, the following concerns were raised by the stakeholders. The following table summarizes the concerns and the response made by the project owner:

Stakeholder comment	Was comment taken into account (Yes/No)?	Explanation (Why? How?)
Noise problem might occur for some of the residents in nearby area within 200 m from a wind turbine. Is there any approach planned to overcome this problem?	Yes	From the regulatory point of view, noise level of the wind turbines is within the acceptable range. However, the project owner promised to minimize the impact of wind farm operation towards the local residents. Hence, for the

		neighbouring residents who feel affected by the noise, the project owner offers to install airtight windows to significantly reduce noise level in the houses.
Is there any plan to embellish the turbines' appearance?	Yes	The project owner plans to green the area surrounding the wind turbines.
Mr. Zheng, Da-Cheng, a local resident who works in a landscaping industry commented that the greening efforts in the wind area could be extended into planting various types of plantations to embellish the surrounding landscape. He pointed out that he could provide service in this field if needed.	The PO will consider.	The project owner will consider Mr. Zheng's suggestions and will contact him in case needed.

According to this stakeholder consultation process, it is clear that the stakeholders are very supportive towards the development of the proposed project. Some minor question about noise was raised; however this is a very minor issue and mitigation measures had already been planned in the earliest stage of project design.

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]
Stakeholder feedback round will be done later on after the stakeholder concerns have been addressed. All stakeholders invited for participation in the Local Stakeholder Consultation will be included in the Stakeholder Feedback Round. All issues raised in the local stakeholder consultation meeting and how due account was taken following the stakeholders' comments will be covered. As planed, this will start from January 2013, with all relevant information and documentations (LSC Report, PDD, GS Passport, EIA, etc) published and open for the stakeholders' assesses and comments. Telephone interviews and emails will be done for collecting stakeholder opinions. Furthermore, PP appointed

representatives in every villages and counties that impacted by the project bundle. The reprehensive will call or visit the stakeholders in their areas and feedbacks will be collected and report to PP.

SECTION F. Outcome Sustainability assessment

F.1. 'Do no harm' Assessment

[See Toolkit 2.4.1 and Toolkit Annex H]

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 complicity in Human Rights abuses.	The project respects internationally proclaimed human rights. Taiwan has its own legislation in place prohibiting the violation of human rights principle and it actively enforces the compliance of such principle. Taiwan ratified two UN human rights treaties—the International Covenant on Civil and Political Rights and the International Covenant on Economic, Social, and Cultural Rights—and passed the implementing law to bring relevant regulations and practice into line with the treaties. The widely recognized democracy, political freedom, and human rights watchdog organization, ***Freedom House***[1] rates Taiwan as among the most "*Free*" nations in Asia (labelled as green) in 2010 - 2012, with a 1 in Political Rights and a 2 in Civil Liberties (scale of 1-7, with 1 being the highest)	Low	N/A

[1] http://en.wikipedia.org/wiki/Freedom_House

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	2010 report: http://www.freedomhouse.org/report/freedom-world/2010/taiwan 2011 report: http://www.freedomhouse.org/report/freedom-world/2011/taiwan 2012 report: http://www.freedomhouse.org/report/freedom-world/2012/taiwan		
2. The project does not involve and is not complicit in involuntary resettlement.	According to the EIA report of the proposed project, the proposed project is constructed on the nonmetropolitan lands which are already far away from the residential areas; therefore, resettlement is not at all necessary. Reference: Longwei: page 4-1, EIA for Longwei Tauwei: page 4-2, EIA for Taowei Chungwei: page 4-2, EIA for Chungwei Fongwei: approval from Bureau of Energy, Ministry of Economic Affairs	Low	N/A
3. The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	According to the EIA report,the project is evidenced to be constructed far from any cultural heritage.	Low	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 rights are protected in the Labour Standards Act (http://law.moj.gov.tw/eng/LawClass/LawAll.aspx?PCode=N0030001). The right to unionize, bargain collectively are highly protected by Labor Union Act: http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL014918. The project fully respects the employees' freedom and rights and all related laws endorsed within Taiwan R.O.C. Law compliance is subject to government's ruling.	Low	N/A

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5. The project does not involve and is not complicit in any form of forced or compulsory labour.	Forced or compulsory labour is regulated in the Labour Standards Act (http://law.moj.gov.tw/eng/LawClass/LawAll.aspx?PCode=N0030001). The project fully respects the employees' rights in accordance with all labour related laws endorsed within Taiwan R.O.C. Law compliance is subject to government's inspection and ruling. In case of any terms of violation, due penalty would be enforced as in accordance to the regulations.	Low	N/A
6. The project does not employ and is not complicit in any form of child labour.	In Taiwan, there is a comprehensive definition of child labour in terms of age limitation, working hours, etc. Such employment regulations are described in Labour Standard Act Chapter 5: http://law.moj.gov.tw/eng/LawClass/LawAll.aspx?PCode=N0030001 The proposed project requires a limited number of skilled employees to operate, maintain, and manage the wind farm, as opposed to manufacturing industries which may require abundant low-skilled labour. Therefore, the project does not employ and is not complicit in any form of child labour.	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.	Specifically regarding the gender equality, detailed enforcement rules are regulated in '*Act of Gender Equality in Employment Act*' (http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL015149 http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL015150), and in case of lawsuit occurrence, legal aid could be provided as in accordance to '*Regulations for Providing Legal Aid in Lawsuits Concerning Gender Equality in Employment*' (http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL015152)	Low	N/A

	The project abides the rules of equality accordingly and does not involve and is not complicit in any form of discrimination.		
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.	Proposed project applies an automated wind power generating facility, equipped with a remote controlling system. Therefore, most of the employees work in indoor environment (at the office), instead of having to standby at the wind farm site. In case of on-site monitoring and device maintenance - since wind turbine does not generate any type of pollutants, employees are not exposed to unsafe or unhealthy environment. The project owner's office space complies with the detailed principles of working environment as described in '*Enforcement Rules of Labour Safety and Health at Workplace*, Taiwan R.O.C.: http://laws.cla.gov.tw/Chi/FLAW/FLAWDAT01.asp?lsid=FL015021	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	The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle. Detailed impacts assessment was conducted under supervision of Environmental Protection Bureau, Taiwan R.O.C., and is elaborated in the approved EIA reports, and the outcomes are reflected in the SD matrix in section F.2.	Low	N/A

measures should be taken even if some cause and effect relationships are not fully established scientifically."			
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 local communities.	The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats. As stated in the EIA reports, the project area is mostly the artificially developed cultivated fields and grass fresh areas, which all belong to the nonmetropolitan lands. No critical natural habitats are including in the project area.	Low	N/A
Anti-Corruption			
11. The project does not involve and is not complicit in corruption.	The project is owned by a private equity company, and there is no governmental subsidy disbursed to the project. Therefore, the project does not involve and is not complicit in corruption and is not prone to entrusted power abuse nor corruption. Moreover, Taiwan was ranked 32 out of 183 countries surveyed in Transparency International's Worldwide Corruption Perceptions Index http://en.wikipedia.org/wiki/Corruption_Perceptions_Index.	Low	N/A
Additional relevant	**Description of relevance to my**	**Assessment**	**Mitigation**

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critical issues for my project type	project	of relevance to my project (low/medium/ high)	measure
1			
2			
Etc.			

F.2. Sustainable Development matrix

[See Toolkit 2.4.2 and Toolkit Annex I]

Insert table in section C3 from your Stakeholder Consultation report (Sustainable Development matrix).

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 '+'
Environment				
Air quality		MDG Target 7.A: Integrate the principles of sustainable development into	**Chosen parameter**: NOx, SOx emission and Total Suspended	+

		country policies and programmes and reverse the loss of environmental resources	Particulate matter reductions Explanation: Since the fuel combustion in baseline power generation produces air pollutants besides GHG, such as NOx and SOx, and other heavy metal pollutants, the project considerably facilitates air quality improvement by producing clean electricity to the national grid. According to Taipower's latest announcement, approximately 356 kg of SOx and 364 kg of NOx emissions are generated for producing 1000 MWh of electricity in 2011[2]. Based on such estimation, the proposed project is expected to abate approximately additional 80,256 kg SOx, and 82,060 kg NOx,	

[2] http://www.taipower.com.tw/left_bar/jing_ying_ji_xiao/5year_effects.htm

			annually. Thus, this sustainable indicator scores a "+".	
Water quality and quantity		MDG Target 7.C: Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation	Since wind power plant operation does not require the use of water, and the operation is controlled remotely, there is no wastewater generated in the proposed project. Therefore, the project does not impact the surface water and underground water conditions. Consequently, this indicator scores '0'.	0
Soil condition		MDG Target 7.A: Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources	According to the EIA report, the project activity does not cause any kind of land occupation and no deforestation/ plantation removal was necessary since the wind farm construction was in erection-point basis. The proposed project has no impact on soil condition. Therefore it scores '0'.	0
Other pollutants	For residents who live very	MDG Target 7.A: Integrate the	From the regulatory point of	0

	close to the wind turbine (< 200 m) and feel affected by the wind noise, the project owner offers to install airtight windows to significantly reduce noise in their houses.	principles of sustainable development into country policies and programmes and reverse the loss of environmental resources	view, noise level of the wind turbines of the proposed project complies with the EPA's noise level standard. However, the project owner promised to minimize the impact of wind farm operation towards the local residents. Hence, for the neighbouring residents who feel affected by the noise, the project owner offers to install airtight windows to significantly reduce noise level in the houses. There is no significant impact regarding the level of noise/light or other pollutants. Therefore, this scores '0'.	
Biodiversity	Precaution measure: the locations of wind towers are carefully selected; the surroundings of wind towers are	MDG Target 7.B: Reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss	The wind projects take very few land (only 42.25 m^2 for each wind tower); the locations are selected carefully to avoid any environmentally	0

	greened.		sensitive places such as migration route for birds; the distance among wind towers are far enough and would not cause barrier effects; the height of towers are below fly height of most birds and the previous studies have shown that few bird deaths are caused by wind projects even in bird populated place (eg. Denmark) Therefore, this scores '0'.	
Subtotal				+
Social development				
Quality of employment		MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people	Chosen parameter: Permanent job positions Jobs of good quality will be provided. The proposed project applies an automated wind power generating facility, equipped with a remote controlling system. Therefore, most of the employees	+

			work in indoor environment (at the office), instead of having to standby at the wind farm site. In case of on-site monitoring and device maintenance - since wind turbine does not generate any type of pollutants, employees are not exposed to unsafe or unhealthy environment. The project owner's office space complies with the detailed principles of working environment as described in 'Enforcement Rules of Labour Safety and Health at Workplace, Taiwan R.O.C.: http://laws.cla.gov.tw/Chi/FLAW/FLAWDAT01.asp?lsid=FL015021 Also these jobs are permanent jobs. Thus, in a conservative standpoint, this indicator scores "0".	
Livelihood of		MDG Goal 1:	There is no	0

the poor		Eradicate extreme hunger and poverty MDG Goal 4: Reduce child mortality rate MDG Goal 5: Improve maternal health	significant impact on this aspect resulting from the project development.	
Access to affordable and clean energy services		MDG Target 7.A: Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources	Although the project facilitates access to clean electricity by replacing the same amount of fossil fuel based electricity generated in the grid (baseline scenario); and Wind farm development in Taiwan is also particularly important for its efforts to reduce dependency on imported fuel. However, the impact of this indicator on a local level is rather difficult to quantify and monitor. Thus this indicator scores a "0".	0
Human and institutional capacity		MDG Target 3.A: Eliminate gender disparity in primary and secondary education, preferably by 2005, and in all levels of education no later	There is no significant impact on this aspect resulting from the project development.	0

		that 2015 MDG Target 8.F: In cooperation with the private sector, make available the benefits of new technologies, especially information and communications		
Subtotal				+
Economic and technological development				
Quantitative employment and income generation		MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people	**Chosen parameter**: increase of job opportunities and salary level More employment opportunities will be generated by the project. Also the employees are fairly compensated, well above the current minimum wage requirement (New Taipei dollar (NTD) 18,780/month). Thus positive impacts can be expected.	+
Balance of payments and investment		MDG Target 8.D: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt	Wind farm development will help reduce fossil fuel imports in Taiwan. Yet, it requires complex quantification and monitoring, therefore it scores '0'	0

		sustainable in the long term		
Technology transfer and technological self-reliance		MDG Target 8.F: In cooperation with the private sector, make available the benefits of new technologies, especially information and communications	Though the equipments are imported, there has not been public seminars or workshop held according to the project. Therefore, it scores '0'.	0
Subtotal				+

Justification choices, data source and provision of references

Air quality	Reference: Taipower Official Website: http://www.taipower.com.tw/left_bar/jing_ying_ji_xiao/5year_effects.htm
Water quality and quantity	Reference: EIA reports of the proposed project Chungwei: page 7-7 Longwei: page 7-9 Tauwei: page 7-8
Soil condition	According to the EIA report, the proposed project activity has not brought little impacts to the soil condition. Reference: EIA reports of the proposed project Chungwei: page 7-7 Longwei: page 7-9 Tauwei: page 7-8
Other pollutants	Reference: EIA reports of the proposed project Chungwei: page 7-21 Longwei: page 7-23 Tauwei: page 7-27
Biodiversity	Reference: EIA reports of the proposed project Chungwei: page 7-42, 43 Longwei: page 7-46,47,48 Tauwei: page 7-38,39
Quality of employment	Reference: EIA reports of the proposed project Chungwei: page 7-62 Longwei: page 7-62 Tauwei: page 7-51 Enforcement Rules of Labour Safety and Health at Workplace, Taiwan R.O.C.:

	http://laws.cla.gov.tw/Chi/FLAW/FLAWDAT01.asp?lsid=FL015021
Livelihood of the poor	N/a
Access to affordable and clean energy services	N/a
Human and institutional capacity	N/a
Quantitative employment and income generation	Reference: HR records Minimum wage regulation http://laws.cla.gov.tw/Chi/FINT/FINTQRY04.asp?sel_word=%B1%60%A5%CE%A6r%A7O&N1=&N2=&Y1=100&M1=9&D1=6&Y2=100&M2=9&D2=6&kw=&sdate=20110906&edate=20110906&keyword=&ktitle=&etype=*&chkNow=1&EXEC2=%ACd++%B8%DF&datatype=etype&typeid=*&recordNo=1
Balance of payments and investment	Taiwan lacks sufficient domestic energy sources, it is almost totally dependent on energy imports. http://www.geni.org/globalenergy/library/national_energy_grid/taiwan/TaiwanCountryAnalysisBrief.shtml
Technology transfer and technological self-reliance	Reference: EIA reports of the proposed project Longwei: page 5-16

SECTION G. Sustainability Monitoring Plan

[See Toolkit 2.4.3 and Toolkit Annex I]

Copy Table for each indicator

No	1
Indicator	Air Quality
Mitigation measure	N/A
Repeat for each parameter	
Chosen parameter	NOx, SOx & TSP emission reductions
Current situation of parameter	According to Taipower's latest announcement, according to Taipower's statistic, an average of 356 kg SOx , 364 kg NOx and 27 kg TSP emissions are generated for producing 1000 MWh of electricity produced in 2011. Based on such estimation, the proposed project is expected to abate approximately 80,256 kg SOx, 82,060 kg NOx and 6,086 kg TSP annually.
Estimation of baseline situation	SOx , NOx and TSP emissions deriving from the

of parameter		electricity generated in the grid-connected fossil fuel fired power plants
Future target for parameter		Continuous monitoring of how much SOx , NOx and TSP are abated by the proposed project.
Way of monitoring	How	Calculated, based on the announced SOx , NOx and TSP emissions/kWh announced by the grid company.
	When	Data will be compiled and monitored annually. All related records will be provided verified by the DOE.
	By who	The project owner. The calculation of SOx , NOx and TSP abatement will be presented in the monitoring report during verification.

No		2
Indicator		Quantitative employment and income generation
Mitigation measure		N/A
Repeat for each parameter		
Chosen parameter		Number of jobs, salary level
Current situation of parameter		All employees are fairly compensated (salaries qualify above the required minimum wage).
Estimation of baseline situation of parameter		Employment opportunity did not exist before the project was developed.
Future target for parameter		The proposed project provides employment to permanent staffs for wind farms operation and all staff will be fairly compensated (above the required minimum wage). The project owner provides health insurance and labor insurance for the employee. Working hours and staff's salary is in compliance with applicable regulations.
Way of monitoring	How	Copy of employment contract and the labour insurance list from Labour Insurance Bureau will be used to specify number of permanent employees of the project owner and to indicate the salary levels.
	When	Data will be compiled and monitored annually. All related records will be provided and verified by the DOE.
	By who	The project owner will keep all employment records.

No	3
Indicator	Biodiversity
Mitigation measure	Obstruction lightings will be installed on the turbines, in order to enhance the safety precautions of the wind farm towards the birds.
Repeat for each parameter	
Chosen parameter	Precaution measures to minimize impact towards plants and birds
Current situation of parameter	Currently obstruction lightings were already installed on

		the turbines already installed on project sites. The proposed project will not operate in a way that would impact the plants or birds.
Estimation of baseline situation of parameter		There was no wind turbine in the area thus there is no precaution measures in place.
Future target for parameter		Continuous existence of the precaution measures including the obstruction lights.
Way of monitoring	How	The obstruction lights are installed on the wind turbines and operates automatically. Photographs will be kept as a record for its continuous existence. The DOE will verify the continuous existence of the operational obstruction lights during the periodic verification site visit.
	When	Data will be compiled and monitored annually. All related records will be provided and verified by the DOE.
	By who	The project owner will monitor the facility and keep all photographs. DOE will verify on site.

Additional remarks monitoring

N/A

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]
This section is not applicable as this is a GS VER project.

H.2. Conservativeness

[See Toolkit 2.2]
This section is not applicable as this is a GS VER project.

GOLD STANDARD PASSPORT

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ANNEX 1 ODA declaration

[See Toolkit Annex D]

As confirmed with the GS[3], GS VER projects in Taiwan have been exempted from ODA declaration. Taiwan is not an OECD member, and it is not included in the DAC list of ODA recipients. Projects in Taiwan are therefore not eligible for receiving ODA funding.

[3] Email correspondence with Leon Wang, GS Regional Manager of China and East Asia Region then, dated October 19, 2011. Please also refer to the GS Passport of Registered Project #GS612 – InfraVest Guanyin Wind Farm Project – Taiwan.

The Gold Standard
Premium quality carbon credits

GOLD STANDARD PASSPORT

ANNEX 2 Stakeholder Consultation Meeting Questionnaire Sample

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豐威、龍威、中威及桃威設置風力發電專案
利益相關方研討會

Local stakeholder consultation meeting

InfraVest Taiwan Wind Farms Bundled Project 2011
InfraVest Fongwei Wind farm project, Taiwan
InfraVest Longwei Wind farm project, Taiwan
InfraVest Chungwei Wind farm project, Taiwan
InfraVest Tauwei Wind farm project, Taiwan

2011/01/03
11:00 am

Participant / 參與者:

Name / 姓名	Contact address / 聯絡地址	Contact number / 連絡電話
汝雅惠	新竹縣新豐鄉	0982270736

請於會議結束後交回報到櫃檯

south pole

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InfraVest Taiwan Wind Farms Bundled Project 2011

Local Stakeholder consultation - Evaluation Forms

評估表

Did this meeting help you understand more about the project? 請問對您而言參加此次會議是否有幫助?	☑ Yes 是	□ No 否	□ Do not know 不知道
Explain the reason 請說明理由	對環境很好		
Do you think that this project will lead to positive contribution? 請問您是否認為此專案將導致許多好處?	☑ Yes 是	□ No 否	□ Do not know 不知道
Explain the reason 請說明理由			
Do you think that this project will lead to negative effects? 請問您是否認為此專案將導致許多憤處?	□ Yes 是	☑ No 否	□ Do not know 不知道
Explain the reason 請說明理由			
Signature 簽名			

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InfraVest Taiwan Wind Farms Bundled Project 2011

Local Stakeholder consultation - Sustainable Development Matrix

Gold Standard indicators of sustainable development, 黃金標準永續發展指標	Mitigation measure 對策	Chosen parameter and explanation 其因素及說明	Score given by stakeholders 評分 Positive impact: score '+' 正面影響: 評分'+' No change in impact: score 0 無任何影響改變: 評分'0' Negative impact: score '-' in case negative impact is not fully mitigated. Score 0 in case impact is planned to be fully mitigated 負面影響: 若對未產生之影響有完善對策，則評分'0'，若對產生之影響並無完善對策，則評分'-'
Air quality 空氣品質			+
Water quality and quantity 水質及水量			+
Soil condition 地質狀況			+
Other pollutants 其他污染			+
Biodiversity 生物多樣性			0
Quality of employment 就業品質			0
Livelihood of the poor 貧窮者的生計			0
Access to affordable and clean energy services 取得清潔能源之途徑			0
Human and institutional capacity 個人及機構能力			0
Quantitative employment and income generation 就業及收入機會			0
Balance of payments and investment 支出與投資之對比			0
Technology transfer and technological self-reliance 技術轉移及技術獨立性			0