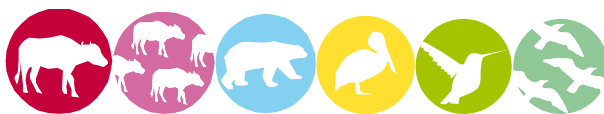


ANNEX R – PASSPORT TEMPLATE

CONTENTS



- A. Project title**
- B. Project description**
- C. Proof of project eligibility**
- D. Unique Project Identification**
- E. Outcome stakeholder consultation process**
- F. Outcome sustainability assessment**
- G. Sustainability monitoring plan**
- H. Additionality and conservativeness deviations**
- Annex 1 ODA declarations**

SECTION A. Project Title

Title: InfraVest Guanyin Wind Farm Project – Taiwan

Date: 09/04/2017

Version no.: 1.0

SECTION B. Project description

The project involves the development of a 43.7 MW onshore wind farm located in Taoyuan-Guanyin (called hereafter: Guanyin wind farm).

The wind farm is constructed and operated by InfraVest Wind Power Group (hereafter InfraVest). The project comprises 19 Enercon E70 wind turbines, each having a capacity of 2.3MW. At full capacity, the aggregated output of the project is expected to be of 142,866 MWh/year, which is to be delivered to the regional state electricity authority, 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 94,291tCO₂e/year.


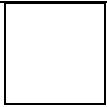
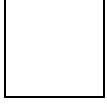


The start date of the project is 09/01/2009, when construction contract was signed.

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 type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

	<input type="checkbox"/>
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C.2. Host Country

Taiwan, Republic of China

C.3. Project Type

[See Toolkit 1.2.c and 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"/>
Does your project activity classify as waste handling and disposal project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please justify the eligibility of your project activity:

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

C.4. Greenhouse gas

[See Toolkit 1.2.d]

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

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)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

SECTION D. Unique project identification

D.1. GPS-coordinates of project location

[See Toolkit 1.6]

	Coordinates
Latitude	25° 2' 39.69" N
Longitude	121° 4' 53.51" W



Explain given coordinates

D.2. Map



Picture 1. :Location in Taiwan



Picture 2: Location of the Guanyin wind farm.

SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

[See Annex J]

Stakeholder Comment	Assessment	Response to comment
Question on InfraVest's productivity and technical maintenance plan for Taoyuan wind farm	Local Stakeholder Consultation 2008-10-17	The project owner thanked the stakeholder for the question. The proposed project applies advanced, automated monitoring system for the wind farm. Safety precautions regarding the operation are also considered to better maintain performance of the turbines, including different approach in various weather conditions, etc. Furthermore, a periodical maintenance would also be done by the experts. Reference: Local Stakeholder Consultation Report Section G
Possible impact of the turbine towards signal reception for televisions	Local Stakeholder Consultation 2008-10-17	The project owner thanked the stakeholder for the comment. Signal interference mostly is caused by the rotation of the metal rotor blade of the turbines. Yet, the blade of the wind turbines used in the proposed project is built of Fiber Reinforced Polymer (FRP) material, to minimize this affect. In addition, the location of the wind farm is considerably far from the residential area, therefore, the signal interference effect is very minimal. Reference: Local Stakeholder Consultation Report Section G
Guanyin Township Community Office Representative commented, the project owner has obtained approval from most of the residents in the area. He warmly welcomed the project owner to install wind turbines in Guanyin Township area.	EIA review board meeting 2009-04-07	Project owner thanked the representative for the comment. Reference: Latest version of EIA report (July 2009)

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.

The Stakeholder Feedback Round started at the 15th of March 2009 ended and on 14th of May 2009. Invitations were sent via emails and post (for local stakeholders who attended the Local Stakeholder Consultation), and the documents related to the project were published on South Pole Carbon Asset Management Ltd., as well as SGS (DOE) official websites.

The documents that were attached on the invitations and websites were:

The Project Design Document (posted on the websites)

Local Stakeholder Consultation Report (posted on the websites)

The Gold Standard Passport with conclusions of the previously held Local Stakeholder Consultation (posted on invitation emails and websites)

The invitation in local language (attached in emails, sent by post to the local stakeholders)

Procedures Followed to Invite Comments

Date of Invitation	15 March 2009
Invitations Sent by	South Pole Carbon Assess Management Ltd.

Sent by	
Means of Invitation	Email, post, website posting
Consultation Conducted by	South Pole Carbon Asset Management Ltd.
Website of Consultation	http://www.southpolecarbon.com/goldstandard_consultations.htm http://www.sgsqualitynetwork.com/tradeassurance/ccp/projects/project.php?id=553

The website link including the project related documents are made publicly available.

Following NGOs are specifically invited by email and letter to comment on the project:

NGO Invited	Invitation sent to
Gold Standard	info@cdmgoldstandard.org
Mr. Liam Salter, WWF	lsalter@wwf.org.hk
Mr. Steve Sawyer, Green Peace	Steve.Sawyer@diala.Greenpeace.org
Mr. Josh Harris, Climate Group	joshharris@theclimategroup.org
Mr. D. McIntosh, Mercy Corps UK	dmcintosh@uk.mercycorps.org
Mr. John French, REEEP	john.french@reeep.org
Environmental Quality Protection Foundation	6F-1, 88, Section 2, Xinyi Road, Taipei 10641 Taiwan

Following local stakeholders will be specifically invited by sending invitation letter in local language by post:

Name participant, job/position in the community	Male / Female	Organization (if relevant)
Zhang, Zhao Mei	F	Local Resident
Mai-Lu, Guo Zhi	M	Guan Yin Township Office
Guan, Shao Dong	M	Local Resident
Xu, Xiu Bin	M	Local Resident

Zhang, Zhen Rong	M	Local Resident
Ni, Yong Quan	M	Local Resident
Peng, Shi Qian	F	Local Resident
Ou, Dao-Xin	M	Local Resident
Xie, Chun-Wen	M	Local Resident
Chen, Shun-Lang	M	Local Resident
Liao, Zhen-Jian	M	Local Resident
Zeng, Xian-Long	M	Local Resident
Zhuo, Sheng-Shen	M	Local Resident
Huang, Yuan-Ri	M	Local Resident

Invitation in Local language

桃園縣觀音鄉及新屋鄉設置風力發電項目

利益相關方回覆邀請函

Invitation of Stakeholder Feedback Round for
InfraVest Guanyin Wind Farm Project – Taiwan
InfraVest Hsinwu Wind Farm Project - Taiwan1

各位先生、女士：

您好！

鑒於“桃園縣觀音鄉及新屋鄉風力發電專案”意向申請成為黃金標準之減碳專案，故與瑞士南極碳資產管理股份有限公司簽訂協定並由其協助相關開發工作。雙方認為此專案在應對全球氣候變化，減排溫室氣體方面作出企業應有的貢獻並希望通過聯合國指定的經營實體（DOE）之認證使本項目以及企業的社會責任感得到國際認可。

會議《桃園縣觀音鄉及新屋鄉風力發電專案 利益相關方研討會》本著集思廣益，以人為本的精神，在專案建成投產以前我們已於2006年1月6日及2008年10月17日於觀音鄉公所三樓會議室、新屋鄉公所三樓會議室及立法委員廖正井觀音服務處各舉行召開相關方的公開說明會，諮詢社會各界對此專案的意見和建議以確保本專案不會對當地社會、環境以及相關人員的健康造成重大的負面影響。

為申請黃金標準認證之碳信用額度，依其申請規定在此謹代表觀威風力發電股份有限公司，桃威風力發電股份有限公司和瑞士南極碳資產管理公司謹此邀請您發表建議。專案相關文件已公布於：

https://www.southpolecarbon.com/goldstandard_consultations.htm 及

<http://www.sgsqualitynetwork.com/tradeassurance/ccp/projects/project.php?id=552>。開放期間為2009年3月15日至2009年5月14日。希望您能在百忙之中撥冗與會並提出您對本案的批評與指教。

順祝，

安好！

桃威風力發電股份有限公司
觀威風力發電股份有限公司
聯繫人：費佛樂 (博士)
地址: 台北市10093
中正區羅斯福路二段9 號10 樓之2
電話: +886-2-2395-4886
傳真: +886-2-2395-1580
電子郵件: info@infra-vest.com

瑞士南極碳資產管理公司
聯繫人：莊昇勳(先生)
聯繫電話：04 2358 1592
電子郵件：j.chuang@southpolecarbon.com

Comments Taken into Account

There was no comment received up to the date of the completion of the Stakeholder Feedback Round.

E. 3. Discussion on continuous input / grievance mechanism

[See Annex W]

Discuss the Continuous input / grievance mechanism expression method and details, as discussed with local stakeholders.

	Method Chosen (include all known details e.g. location of book, phone, number, identity of mediator)	Justification
Continuous Input / Grievance Expression Process Book	Grievance expression book in Villages	Kept by the leader of the villages
Telephone access	+886-2-2395-4886	project manager
Internet/email access	info@infra-vest.com	project manager

Nominated Independent Mediator (optional)	-	-
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All issues identified during the crediting period through any of the Methods shall have a mitigation measure in place. The identified issue should be discussed in the revised Passport and the corresponding mitigation measure should be added to sustainability monitoring plan in section G.

SECTION F. Outcome Sustainability assessment

F.1. 'Do no harm' Assessment

[See Toolkit 2.4.1 and 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 rates Taiwan as among the most "Free" nations in Asia (labelled as green), with a 2 in Political Rights and a 1 in Civil Liberties (scale of 1-7, with 1 being the highest) 2009 report: http://www.freedomhouse.org/template.cfm?page=363&year=2009&country=7714 2010 report: http://www.freedomhouse.org/template.cfm?page=22&year=2010&country=7929 .	Low	N/A
2. The project does not involve and is not	As described in the EIA report section 7.1.7, the project is constructed distanced to residential area. Two closest residences are at 400 m and 450 m distance, while others	Low	N/A

complicit in involuntary resettlement.	located at 800 m - 1000 m distance range from the wind turbines); therefore, resettlement is not at all necessary.		
3. The project does not involve and is not complicity in the alteration, damage, or removal of any critical cultural heritage.	As reported in the EIA (EIA report sec. 6.5.2.), the project is constructed distanced 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 freedom 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 Law: http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?Isid=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
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	Specifically regarding the gender equality, detailed	N/A	Low

does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	<p>enforcement rules are regulated in 'Gender Equality in Employment Act' (http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL015149)</p> <p>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 Act' (http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL015152)</p> <p>The project abides the rules of equality accordingly and does not involve and is not complicit in any form of discrimination.</p>		
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.	<p>Proposed project applies an automated wind power generating facility, equipped with 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.':</p> <p>http://laws.cla.gov.tw/Chi/FLAW/FLAWDAT01.asp?lsid=FL015021</p>	N/A	Low
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	<p>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 report, and the outcomes are reflected in the SD matrix in sec. F.2.</p>	Low	N/A

or environment, precautionary 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) recognized as protected by traditional local community	The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats	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 37 out of 180 countries surveyed in Transparency International’s Worldwide Corruption Perceptions Index http://en.wikipedia.org/wiki/Corruption_Perceptions_I	Low	N/A

	ndex .		
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F.2. Sustainable Development matrix

[See Toolkit 2.4.2 and Annex I]

Insert table as in section D3 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 ‘+’
Air quality	N/A	N/A (Taiwan is not a member of the UN)	Chosen parameter : Concentration of NO _x , SO _x Since the fuel combustion in baseline power generation produces air pollutants beside GHG, such as NO _x and SO _x , 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 229kg of SOx and 230 kg of NOx emissions are generated for producing 1000 MWh of electricity. Based on such estimation, the proposed project is expected to abate approximately additional 32.72 ton SOx, and 32.86 ton NOx, annually. Thus, this sustainable indicator scores a "+".	
Water quality and quantity	N/A	N/A	Taiwan is subject to acid rains which are mostly caused by emissions of sulfur and nitrogen compounds. Although an increase in water quality is favorable through the project development, it requires complex quantification and monitoring, therefore it scores '0'.	0
Soil condition	N/A	N/A	Soil biology and chemistry can be seriously damaged by acid rain. The	0

			wind farm mitigates sulfur and nitrogen compounds emission in the atmosphere and thus acid rain by replacing the baseline fossil fuel based power generation. The impact on soil condition improvement is favorable, yet, it requires complex quantification and monitoring, therefore it scores '0'.	
Other pollutants	N/A	N/A	There is no significant impact regarding the level of noise/light.	0
Biodiversity	N/A	N/A	Generally speaking, the impact of the project development towards biodiversity is very limited. Therefore, this indicator scores '0'. However, in order to be conservative, this indicator will as well be monitored.	0
Quality of employment	N/A	N/A	Chosen parameter: Employment quality, labor conditions, employee	+

			<p>trainings, etc. The project owner abides all employment related regulations and it provides health and labor insurance to the staffs. The project also creates employment opportunities for wind farm technician/operat or which require a certain qualification standard. Moreover, the project owner will organize capacity building for its staffs. Therefore, this is scored '+'. </p>	
Livelihood of the poor	N/A	N/A	There is no significant impact on this aspect resulting from the project development.	0
Access to affordable and clean energy services	N/A	N/A	Chosen parameter: change in traditional fuel consumption. The project facilitates access to clean electricity in terms of replacing fuel use for the same amount of electricity generated under the baseline scenario.	+

			Wind farm development in Taiwan is also particularly important in its efforts to reduce dependency on imported fuel.	
Human and institutional capacity	N/A	N/A	There is no significant impact on this aspect resulting from the project development.	0
Quantitative employment and income generation	N/A	N/A	Chosen parameter: number of jobs The project activity generates employment opportunities during the project construction and operation period.	+
Balance of payments and investment	N/A	N/A	Wind farm development will help reduce fossil fuel imports in Taiwan. Yet, it requires complex quantification and monitoring, therefore this scores '0'	0
Technology transfer and technological self-reliance	N/A	N/A	The project owner had organized capacity building for its staffs. However, it is complicated to measure and monitor the impact of the proposed project towards Taiwan's energy sector. Thus, this	0

			sustainable indicator scores a "0"	
Justification choices, data source and provision of references				
Air quality	<p>The parameter chosen is concentrations and emissions of NOx, SOx, and VOCs. During the construction process, the maximum year-average of the increase of SO₂, NO₂ emissions range at 0.24 ppb and 0.31 ppb, respectively. These numbers are considered negligible, considering the air quality standards according to the EPA: SO₂: 30 ppb, NO₂: 50 ppb.</p> <p>In addition, since the fuel combustion in baseline power generation produces those toxic gases and other heavy metal pollutants, the project facilitates air quality improvement by producing clean electricity to the national grid. According to Taipower's latest announcement, approximately 229 kg of SOx and 230 kg of NOx emissions are generated for producing 1000 MWh of electricity. Based on such estimation, the proposed project is expected to abate approximately additional 32.72 ton SOx, and 32.86 ton NOx, annually.</p> <p>Reference: Taipower Official Website: http://www.taipower.com.tw/content/govern/govern01.aspx?MType=5&MS Type=14</p> <p>EIA report Ch. 7.1.5.</p>			
Water quality and quantity	<p>Taiwan is subject to acid rain, which is mostly caused by emissions of Sulfur and Nitrogen compounds to the atmosphere. Therefore, suitable parameter for this aspect is the levels of SOx and NOx, derived from fuel combustion in baseline scenario. Reference: EIA report ch. 7.1.2</p>			
Soil condition	<p>The parameter chosen for this aspect is levels of SOx and NOx. The proposed project's construction and operation does not significantly impact in soil condition. In addition, soil biology and chemistry can be seriously damaged by acid rain. Renewable energy development in Taiwan is expected to improve water and soil conditions, by reducing toxic emissions to the atmosphere and thus acid rain.</p> <p>Reference: EIA report ch. 7.1.1</p>			
Other pollutants	<p>Parameter chosen in assessment of other pollutants impact is level of noise. Survey results for the periods of construction and operation reported that the increase of noise is ranging between 0.1-0.7 dB. According to the Environmental Noise Standard, noise level increase within 0-5 dB is categorized as very minimum / negligible.</p> <p>Reference: EIA report ch. 7.1.4</p>			
Biodiversity	<p>The measurement is based on number of affected plants and animals. The proposed project is located at the outline of windbreak forest, west Taiwan. As the construction process is kept small-scaled at a time, the impact towards biodiversity of the forest is very limited. However, the project owner has made a commitment to do replantation on 150% of the originally utilized area, and has promised that such task will be completed within one year after the project has fully obtained power license, under the condition that relevant authorities would grant the necessary land use approvals for this</p>			

	<p>purpose (e.g. Bureau of Forestry).</p> <p>In terms of the project's impact towards bird population, as stated in the EIA conclusions, the proposed wind farm is not located in protected or sensitive regions. The bird migration altitude normally ranges at 240 m - 300 m, while the height of wind turbines ranges at 99-135 m; and the turbine-to-turbine distances range at the minimum of 350 meters and maximum of 830 meters, which is up to few times the diameter of the blades (approx. 80 meters). The chance of collision between the migrating birds and the wind turbines is therefore minimized, given such height difference and the broad distances between the turbines. Bird assessment was conducted for 3 seasons in 2005 (February, April) and 2006 (July) by dividing the project area into 4 (A~D) sampling ranges, where each consists of few wind turbines. Due to the contrast between the broad radius of bird activity and the limited area of individual wind turbines, the monitoring areas are focused at the planned positions of the turbines and the surroundings. The bird assessment applied Counting Flocks and Roosts, a widely used technique for bird census (Sutherland, 1996). Bird species and population that dominates the region, such as land birds, egrets, and water birds, are monitored at different periods of time, according to the migrating cycles of each group.</p> <p>Although the project's impact towards birds is very minimum, the project owner will take few pre-cautional measures as follows:</p> <ol style="list-style-type: none"> 1. Obstruction lights are installed on the turbines to enhance safety precautions towards the birds as well as other flying objects; 2. Bird monitoring assessments will be conducted during the first 2 years of operation. <p>The Guanyin Wind Farm Ecosystem Impact Monitoring Report comprises bird monitoring outcomes during late construction period and the operational Period. According to the monitoring plan, the bird monitoring is conducted seasonally and for 2 years in total during operation period, and also for 4 times in one year during the construction period. The bird monitoring started in the March 2009.</p> <p>The project owner contracted Ming Hsiang Co. who specialize in biodiversity analysis and monitoring. The bird monitoring period covers the bird monitoring data since 03/03/2009 until 14/09/2012. And after years monitoring, there is no negative impact observed. Therefore, according to the EIA, there will be no formal monitoring required in further verifications.</p> <p>Reference: EIA report ch. 5.4. and 6.3.1., chart 8.5-2, latest version of EIA report (July 2009) ch. 2.3.</p> <p>The Ecosystem Impact Monitoring Report</p>
Quality of employment	<p>Parameter chosen for this aspect is the employment quality, labor conditions, and employee trainings. For an example, the person responsible for the construction planning, operational and maintenance of the system, is required to have certain expertise and related certifications. Moreover, the staffs will be trained by InfraVest and Enercon. The training includes technical, environmental and safety knowledge, and operational and maintenance instructions.</p> <p>The job related health and safety code is regulated by the Labor Safety and</p>

	<p>Health Act (http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL015013), though there is no specific safety regulation for wind farm operation. The Labor Standards Act (http://laws.cla.gov.tw/Eng/FLAW/FLAWDAT01.asp?lsid=FL014930) covers fundamental regulations related to employment within the country. The PO also provides health insurance and labor insurance for the employee's well-being, which complies with the national regulations. Reference: Certification documents available at the project owner, Labor Safety and Health Act, Labor Standards Act.</p>
Livelihood of the poor	In terms of livelihood of the poor: poverty alleviation, access to health care services and sanitation, there were no significant issues derived from the proposed project.
Access to affordable and clean energy services	<p>Parameter chosen for this aspect is change in traditional fuel consumption, dependency of fuel/energy imports. Wind power development in Taiwan is one of the efforts to increase its local energy resources and reduce its dependency on imported energy supply (which according to 2009 statistics has reached 99.4%). The current wind power generation in the grid amounts 0.3% of total grid generation. The annual power generation of the proposed project shall contribute to approximately 18% of the existing wind power generation, which translates to 0.06% of the total grid generation. Reference: Energy Statistic Yearbook, 2009 – Bureau of Energy, Ministry of Economic Affairs, Energy Statistic Yearbook, 發電裝置容量及發電量統計表 (082~097), '28.Power Generation', http://www.moeaboe.gov.tw/opengovinfo/Plan/all/energy_year/main/EnergyYearMain.aspx?PageId=default Yearly statistic data: Total Energy Supply 2009(能源總供給) http://www.moeaboe.gov.tw/opengovinfo/Plan/all/WorkStatisticsAll.aspx</p>
Human and institutional capacity	<p>There were no significant impacts deriving from the proposed project development in any of the possible parameters. Reference: EIA report ch. 7.3</p>
Quantitative employment and income generation	<p>In terms of quantitative employment and income generation, the project activity generates project employment opportunities during the project construction and operation period. Reference: EIA report ch 7.3.; project organizational chart, available at the project owner.</p>
Balance of payments and investment	<p>Wind farm development in Taiwan will help reduce its dependency in fossil fuel imports. Yet, it requires complex quantification and monitoring. Reference: Taiwan Statistic Yearbook, 2008 – Imported Energy and Supply Ratio: http://www.taiwan.gov.tw/todaytw/2008/intestine/ch06/2-6-29-0.html)</p>
Technology transfer and technological	In terms of technology transfer, the staffs responsible for operation and maintenance will be trained in regards of technical issues.

self-reliance

Reference: Training record is available at project site.

SECTION G. Sustainability Monitoring Plan

[See Toolkit 2.4.3 and Annex I]

Copy Table for each indicator

No		1
Indicator		Air Quality
Mitigation measure		N/A – this indicator scores ‘+’
Repeat for each parameter		
Chosen parameter		Concentration of NOX, SOX
Current situation of parameter		During the validation process, the wind farm has started generating clean electricity since 18/01/2010.
Estimation of baseline situation of parameter		The situation of the air quality in the project area before the construction of the project
Future target for parameter		Based on the grid announcement, approximately 230 kg of SOx and 229 kg of NOx emissions are generated for producing 1000 MWh of electricity. Based on such estimation, the proposed project is targeted to abate approximately additional 32.72 ton SOx, and 32.86 ton NOx, annually.
Way of monitoring	How	Calculated, based on NOx and SOx averaged emission factors announced by the grid.
	When	Monitoring will be performed annually. All related data will be provided to the DOE during verification
	By who	The project owner is responsible for keeping the generation data. The data will then be collected and calculated by South Pole Carbon Asset Management Ltd.

No	2
Indicator	Quality of employment
Mitigation measure	N/A – this indicator scores ‘+’
<i>Repeat for each parameter</i>	
Chosen parameter	Jobs opportunity with mandatory qualification resulting from the project activity Compliance with employment related

		regulations
Current situation of parameter		The project provides employment for wind farm technician/operator who has a certain certification. The project owner provides health insurance and labor insurance for the employee. Working hours and staff's salary is in compliance with applicable regulations. The project owner organizes employee training with topics surrounding technical, environmental/safety code, and operational/maintenance procedures.
Estimation of baseline situation of parameter		The situation of the quality of the employment in the project area before the construction of the project
Future target for parameter		Employment of the certified staff(s), continuous staff training (safety/operation), and abidance by the labor-related regulations incl. staff's insurance program, working hours, and minimum wage.
Way of monitoring	How	Related evidences such as copy of employee's certifications, employee training records, health and insurance lists, employment contracts and employee guidelines will be collected annually and verified by the DOE.
	When	Monitoring will be done annually. Data is available on site during periodic verification
	By who	The project owner is responsible for keeping the records. The data will then be collected and compiled by South Pole Carbon Asset Management Ltd.

No	3
Indicator	Access to affordable and clean energy services
Mitigation measure	N/A – this indicator scores '+'
<i>Repeat for each parameter</i>	
Chosen parameter	Change in traditional fuel consumption.
Current situation of parameter	The wind farm has been generating clean electricity since 18/01/2010.
Estimation of baseline situation of parameter	The target for parameter is the percentage of total electricity generated from the proposed project in the grid. The estimated annual power generation of the proposed project shall contribute to approximately 18% of the existing wind power generation in the grid, which translates to 0.55% of the total grid generation in year 2015.
Future target for parameter	The situation before the construction of the project

Way of monitoring	How	Amount of electricity generated in the wind farm is recorded automatically by power meter. The percentage will be calculated against the latest official statistic data announced by the Bureau of Energy, MOEA Taiwan R.O.C..
	When	Monitoring will be performed annually, details are available on site during verification
	By who	The project owner is responsible for keeping the generation data. The data will then be collected and calculated by South Pole Carbon Asset Management Ltd.

No		4
Indicator		Quantitative employment and income generation
Mitigation measure		N/A – this indicator scores ‘+’
<i>Repeat for each parameter</i>		
Chosen parameter		Number of employment generated from the proposed project
Current situation of parameter		The project provides employment opportunities during construction and operation.
Estimation of baseline situation of parameter		The situation before the construction of the project
Future target for parameter		Staffs employment
Way of monitoring	How	The project owner will provide a chart of employment, specifying the number of manpower allocated in the proposed project. This information will be prepared by the InfraVest’s human resource department. List of labour insurance (which is required by law for every employee) will also be provided to the DOE, as evidence of employment.
	When	Monitoring will be performed annually. Data is available on site during verification
	By who	The project owner’s human resource department will be responsible for keeping the employment records. The data will then be collected and compiled by South Pole Carbon Asset Management Ltd.

No	5
Indicator	Biodiversity
Mitigation measure	

<i>Repeat for each parameter</i>		
Chosen parameter		Replantation
Current situation of parameter		The wind farm is constructed at the outline area of a wind break forest
Estimation of baseline situation of parameter		The situation before the construction of the project
Future target for parameter		The project owner made a commitment of replantation on 150% of the originally utilized area, and has promised that such task will be completed within one year after the project has obtained power license.
Way of monitoring	How	The project owner will proactively seek for the land use approval for replantation purpose from the government. After the approval has been obtained, InfraVest will immediately contract a plantation/construction subcontractor. The contract clearly specifies the species, area, and the deadline of the replantation. The contracted party will as well be responsible for the conservation of the plantations for at least 3 years. When the deadline approaches, project owner will verify whether the replantation has been completed as being agreed in the contract. The conservation will as well be monitored by the project owner
	When	Monitoring will be performed annually. At the deadline of each individual replantation project, the project owner will verify whether the replantation projects have been completed as being agreed in the contract. Replantation contract and monitoring record are kept by the project owner and will be compiled and monitored annually. All monitoring documents will be available during verification.
	By who	Project owner will keep track of the replantation progress, and the records will be collected and compiled by South Pole Carbon Asset Management Ltd.

No	6
Indicator	Biodiversity
Mitigation measure	
<i>Repeat for each parameter</i>	
Chosen parameter	Bird

Current situation of parameter		The wind farm is constructed at the outline area of a wind break forest
Estimation of baseline situation of parameter		The situation before the construction of the project
Future target for parameter		Bird monitoring assessments would be conducted during the first 2 years of operation. And it has been conducted already.
Way of monitoring	How	The Guanyin Wind Farm Ecosystem Impact Monitoring Report comprises bird monitoring outcomes during late construction period and the operational Period.
	When	According to the monitoring plan, the bird monitoring is conducted seasonally and for 2 years in total during operation period, and also for 4 times in one year during the construction period. The bird monitoring started in the March 2009.
	By who	Bird monitoring will be conducted by Min-Shiang Ecological Census Consultant Co. Ltd.; and the results will be compiled by the project owner and South Pole Carbon Asset Management Ltd.

The EIA outcome specifies the following impacts and and mitigation measures during the construction period of the proposed project. These parameters will be verified by the DOE during the first verification based on supporting document such as official EIA monitoring/examination report, contract with the contractor company and related regulations.

EIA Indicator	Mitigation
#EIA 1 Water Quality	Wastewater due to the construction will be well managed and stored during the construction stage
#EIA2 Solid waste	Solid waste during construction will be managed by the contracted waste management company
#EIA3 Air Quality	Land watering will be conducted to minimize the construction dust.

Additional remarks monitoring

SECTION H. Additionality and conservativeness

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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.

ANNEX 1 ODA declaration**[See Toolkit Annex D]**

This project is not eligible of receiving ODA, since Taiwan is not a member of OECD.