

Gold Standard Passport

Killik Wind Power Plant, Turkey

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Annex 1 ODA declarations

SECTION A.	Project Title
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Killik Wind Power Plant

PEM Enerji A.Ş. (in the following: PEM) plans to install a wind power plant within the central district of Tokat. The purpose of the project is to generate electricity and to feed it into the public grid. Killik WPP shall be registered as a Gold Standard Voluntary Emission Reduction (GS-VER) project in order to facilitate the project implementation by means of financial inflows coming from the credits sale. Due to its significant contribution to climate change mitigation and sustainable development in the region, this project is expected to fulfil the requirements of the Gold Standard rigorously.

SECTION B.	Project description
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The purpose of Killik WPP is to utilize wind energy potential in Turkey and to compensate energy requirement through a sustainable, environmentally and cost effective way.

PEM Enerji A.Ş. (PEM) proposes to install Killik WPP with 40 MW installed capacity within the borders of central district of Tokat., Turkey. Killik WPP will have 16 turbines each having an installed capacity of 2.5 MW. The total electricity production of the project is expected to be some 85,657.50 MWh/year. The nearest settlements to the project site are Killik, Cayoren and Tekneli villages. The closest turbines to Killik, Cayoren and Tekneli villages are 750 m., 1.3 km and 2.0 km away from the village centers, respectively.

Before the investment decision in October 2010, it was planned that 54 wind turbines, each with an installed capacity of 0.75 MW would be erected, generating 85,658 MWh annually. The amendment of the generation licence was realised accordingly. It is expected that 52,087 tCO₂e of emission reduction will be realised.

Also, in order to transfer the produced electricity to the National Electricity System, 154 kV and 15 km energy transmission line is going to be constructed. The connection of the project to the National Electricity System will be to the Tokat OSB Transformer Station.

The construction of the project is to start on 24th September 2010 and it is expected to be completed until October 2011.

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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
	☐	☐
	☐	☐
	☐	☐
	X	☐
	☐	☐
		☐

C.2. Host Country

[See Toolkit 1.2.b]

The host country to the project is Turkey.

Turkey has ratified the Kyoto Protocol on February 5, 2009. Yet, in practice, Turkey will not commit to a cap on its greenhouse gas emissions and will not be a host for Clean Development Mechanism (CDM) or Joint Implementation (JI) projects until the end of 2012, because of its particular situation.

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?	X	☐

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Does your project activity classify as an End-use Energy Efficiency Improvement project?	☐	X
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Please specify your project type:

According to the Gold Standard Toolkit, as a wind power plant project with an installed capacity of larger than 15 MW, the project is a Large project and also fits in Renewable Energy Supply category.

Pre Announcement	Yes	No
Was your project previously announced?	☐	X
Explain your statement on pre announcement There has been no pre-announcement statement regarding the execution of the project without the inclusion of carbon revenues.		

C.4. Greenhouse gas

[See Toolkit 1.2.d]

Greenhouse Gas	
Carbon dioxide	X
Methane	☐
Nitrous oxide	☐

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C.5. Project Registration Type

[See Toolkit 1.2.f]

Project Registration Type	
Regular	X

Pre-feasibility assessment	Retro-active projects (T.2.5.1)	Preliminary evaluation (T.2.5.2)	Rejected by UNFCCC (T.2.5.3)
	☐	☐	☐

SECTION D. Unique project identification

D.1. GPS-coordinates of project location

[See Toolkit 1.6]

Turbine No	6 degree UTM Coordinates (ED50)				Turbine Capacity
	Y	X	Grid Region Mark	Letter	MW
RT1	289389,68	4450211,17	37	T	2,5
RT2	289777,98	4450596,51	37	T	2,5
RT3	289974,14	4450521,57	37	T	2,5
RT4	290167,25	4450752,08	37	T	2,5
RT5	290649,61	4450774,01	37	T	2,5
RT6	291042,46	4450992,62	37	T	2,5
RT7	291416,13	4450882,55	37	T	2,5
RT8	291752,80	4450504,30	37	T	2,5
RT9	292090,33	4451322,40	37	T	2,5
RT10	292792,39	4451560,02	37	T	2,5
RT11	292731,97	4450876,32	37	T	2,5
RT12	292877,73	4450730,33	37	T	2,5
RT13	293090,65	4451295,70	37	T	2,5
RT14	293338,20	4451435,17	37	T	2,5
RT15	294023,23	4451204,64	37	T	2,5
RT16	294246,33	4451425,53	37	T	2,5

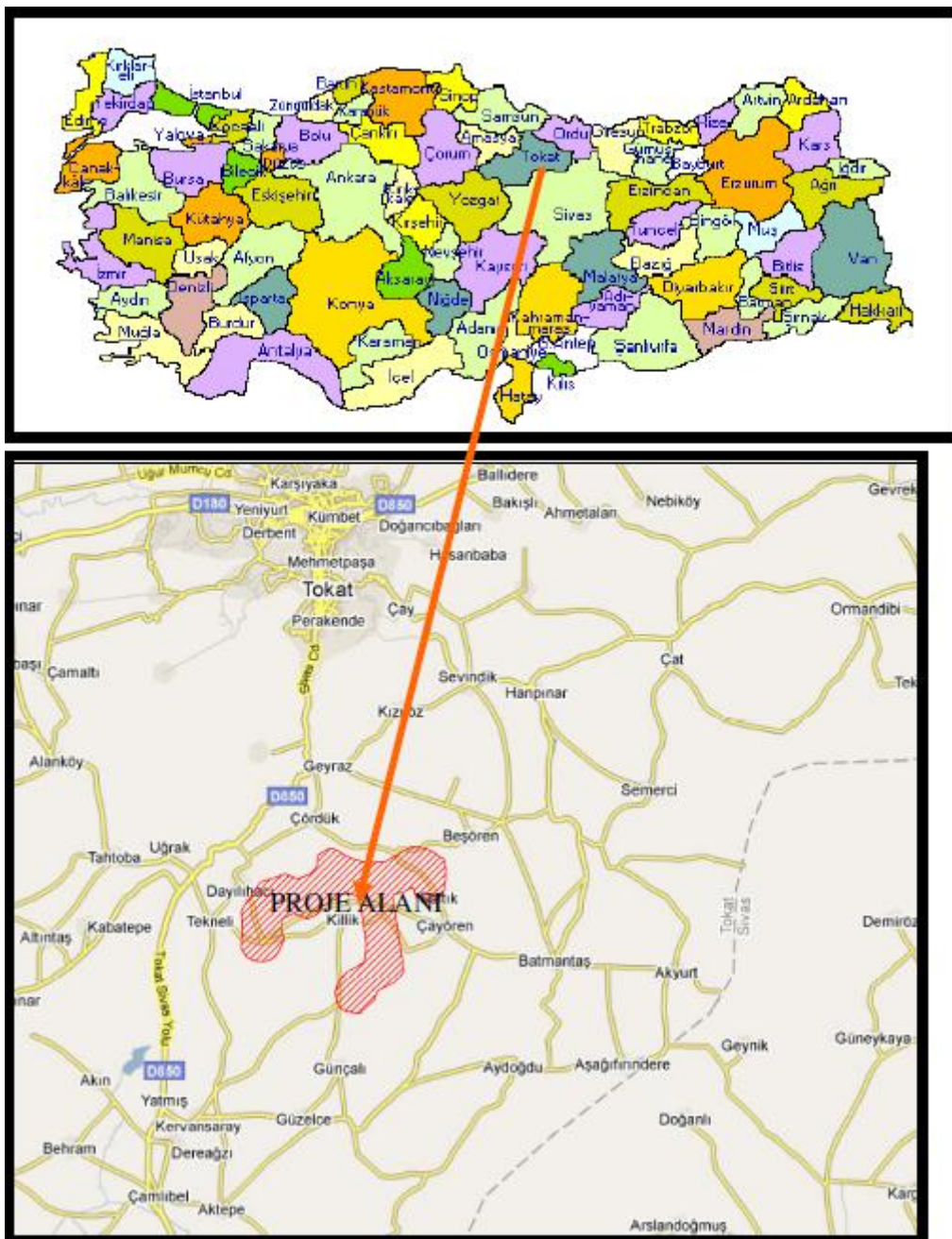


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Explain given coordinates

The given coordinates belong to the turbine locations of the power plant.

D.2. Map



SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

The project owner organized a local stakeholder participation meeting which is in line with GS requirements on August 10th, 2010.

During the consultation meeting, stakeholders had some comments about the project and asked for some contributions from the project owner. Please see the table below:

Stakeholder comment	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
Why this facility will be built near Killik village? Isn't there a chance to construct at any other places?	No	There are a lot of wind power plant projects in different regions of Turkey. The project locations are decided after long measurements. The companies search for suitable places for wind power plants and then apply to Energy Market Regulatory Authority (EMRA) to obtain electricity production license. PEM Enerji made measurements in this region and the results show that this location is suitable for energy production from wind power. In addition, the project area is not too close to your settlements. We will not affect your daily life.
What is the land status of the project area? Are there any pasture areas included in the project location?	Yes	The treasury and forestry lands are preferred for the project area. As far as possible, no pasture or agricultural areas are selected. 80% of the project area is treasury lands.
There are concerns about the pasture area of Killik Village, since the main livelihood in the region is livestock production.	Yes	Tokat is a wind-rich region. Thus, many companies are waiting for licenses to construct power plants at these mountains. That's why

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		PEM also preferred this region. However, you can be sure that, in the project, your pasture area will not be damaged. Your animals will continue to graze on the lands. We will not cover huge lands for the plant.
What are the benefits of the projects to the villagers?	Yes	The project will provide job opportunities to the local people during the construction and operation of the plant. For example, there will be 20-25 security guards in the project operation. We will have contributions to the villages around project area. The current village roads will be widened. If the villagers have construction works, we will help them with our construction equipments. In addition, the cell phones have no signal in this region. There is no GSM network here. We have made necessary applications and waiting for network investment from the GSM operators. As PEM Enerji, we are ready to help region as far as possible.

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]

All project documents were uploaded to Gold Standard Registry web site; and the Stakeholder Feedback Round was started on April 1st, 2011. The Gold standard Foundation, global Gold Standard supporter NGOS, local NGOs who were previously invited to the live meeting, Ministry of Environment and Forestry and also the auditors who are responsible for the validation of the project were informed by e-mail on April 5th, 2011. What's more, in order to reach other stakeholders (local people), the Turkish summary of the project documentation was prepared and these summary documents were distributed in the region.

The documentation was planned to be made available until June 3rd, 2011, but since no comments were received until this date, the SFR was extended to end of December 2011. Thanks to the Turkish summary distributed in the village, the stakeholders had a chance to get information about the project, provide their comments about the project documentation by writing e-mails, making phone calls, sending a fax or writing on comment pages at the last pages of the Turkish summary document.

During the Stakeholder Feedback Round, no comment was received from NGOs and other stakeholders, except local people. On the other hand, no e-mail, fax or phone calls were received. Only, the local stakeholders provided their feedbacks. They preferred to made comments about the project by writing on the comment pages of the Turkish summary document.

Since the project site is not close to the village and the villagers are not interested in project, only a few comments received from the stakeholders. Only three local people wrote their comments in the Turkish summary document. The comments received from the local stakeholders are positive. Please see the English translation of these comments below:¹

Name/Surname	Ibrahim Koten
Contact Information	0554 346 51 59
Date	29/12/2011
Comment	I have been working on Tokat Killik Project more than one year. The Project is not harmful for the environment and nature. Also, the project provides some job opportunities to the local people. Thanks a lot.

Name/Surname	Mustafa Murat Kaygısız
Contact Information	0549 214 00 60
Date	29/12/2011
Comment	I have been working on Tokat Killik Project more than one year. There are some employment opportunities for local people due to this project. The Project also helps the national economy. Thanks to Eksim Group and Pem Energy Group.

Name/Surname	Fazıl Taşdan
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¹ The original comments are provided in Annex 2.

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Contact Information	0535 560 93 59
Date	29/12/2011
Comment	I am the person, who lives in Tekneli Village, that have been working in Tokat Killik WPP. I am so appreciate to Eksim Group, because of increasing the employment in our village with the environmental energy production. I hope that the new project will be come sooner.

As seen in the comments above, no negative comments have been made by the stakeholders.

SECTION F. Outcome Sustainability assessment

F.1. 'Do no harm' Assessment

[See Toolkit 2.4.1 and Toolkit Annex H]

The host country, Turkey, has ratified:

- European Convention on Human Rights
- ILO² Convention 87 (freedom of association) and 98 (right to collective bargaining).
- ILO Convention 29 and 105 on elimination of forced and compulsory labor.
- Convention 138 (minimum age) and Convention 182 (worst form of child labor) under the ILO Declaration on Fundamental Principles and Rights at Work?
- Convention 100 (equal remuneration) and Convention 111 (Discrimination in employment/occupation) under the ILO Declaration on Fundamental Principles and Rights at Work?
- UN Convention against Corruption and the OECD Convention on Combating Bribery of Foreign Public Officials in International Business Transactions.

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 Right abuses.	The project area is not inhibited by indigenous people. The project does not pose any activity that impedes or obstructs the personal or collective freedom of the citizens in the project districts. The host country has ratified the European	No risk.	No risk.

² Full list of ILO conventions ratified by Turkey available at <http://webfusion.ilo.org/public/db/standards/normes/appl/appl-byCtry.cfm?lang=EN&CTYCHOICE=0660>

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	Convention on Human Rights. Individuals have the right to apply the European Human Rights Court. ³		
2. The project does not involve and is not complicit in involuntary settlement.	The project does not cause any resettlement. Most of the lands (more than 80%) to be used for the project are treasury lands. Therefore, there is limited private lands to be used. ⁴ No expropriation has been conducted. The only land purchased from the land owner is the location of the 8th turbine and the expropriation conducted for the 8th turbine will be monitored	No risk.	No risk.
3. The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	The project does not pose an impact on the cultural and archaeological heritage as it is indicated in the EIA Report. ⁵	No risk	No risk
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.	Turkey ratified ILO Convention 87 (freedom of association) and 98 (right to collective bargaining). Article 33 of the Turkish Constitution legalizes freedom of association. According to this Article, every citizen has right to form associations or become a member of an association as well as withdraw from	No risk	No risk

³ Source: http://tr.wikipedia.org/wiki/Avrupa_İnsan_Hakları_Sözleşmesi

⁴ Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p. 47

⁵ Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p. 57

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	membership without prior permission. ⁶		
5. The project does not involve and is not complicit in any form of forced or compulsory labour.	Turkey ratified ILO Conventions 29.	No risk	No risk
6. The project does not employ and is not complicit in any form of child labour.	Turkey ratified ILO Conventions 138 for minimum age and 182 against worst forms of Child Labour.	No risk	No risk
7. The project does not involve and is not in complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	Turkey ratified ILO Conventions 100 for equal remuneration and Convention 111 against discrimination in employment and occupation under the ILO Declaration on Fundamental Principles and Rights at Work. According to Turkish Labour and Employment Law, no discrimination based on language, race, sex, political opinion, philosophical belief, religion, sex or similar reasons is permissible.	No risk	No risk
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	The construction of the projects requires intensive labour for construction and machinery / equipment operation. Workers may be exposed to serious risks on the	Low	All the workers will be trained about health and safety issues before construction starts. ⁷

⁶ <http://www.anayasa.gov.tr>

⁷ Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p. 41

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	construction site in terms of occupational hazard and accidents.		
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.	The construction of the project may incur environmental challenges with some level of harm to human health and environment The public around the project site maybe exposed to solid and sanitation waste during the construction.	Low	The project owner will follow necessary procedures for environmental safety at the project site at international standards. All the precautions are taken and mitigation measures are defined for the possible environmental impacts of the project. The company will dispose all wastes (waste water, solid wastes and waste oil) resulting from the project activity in line with the local regulations. Waste oil will be collected by the authorised companies accredited by the ministry. Waste water will be stored in the project area and collected by the municipality's sewage trucks. Solid wastes will also be collected by the municipality. In addition to the measures taken for the wastes, the company executed landscaping

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			activities around the power plant and will plant trees in the region.
10. The project does not involve and is not in complicit in significant conversion or degradation of critical natural habitats including those (a) that are legally protected (b) officially proposed for protection (c) identified by authoritative resources for their high conservation value or (d) recognised as protected by traditional local communities.	The construction and operation of the project may incur environmental challenges with some level of harm to natural habitats. The natural habitats around the project site maybe exposed to degradation and destruction.	Low	The company will be in line with all International Conventions about protecting biodiversity adopted by Turkey.⁸ The fauna and flora inventories in the project area are prepared and as a result, it was seen that there is no endangered flora or fauna in the region. Also, to mitigate the possible effects of the project on flora and fauna, all the mitigation measures are taken.^{9, 10}
Anti-Corruption			
11. The project does not involve and is not complicit in corruption.	No corruption exists in the project. Turkey has ratified UN Convention against Corruption and the OECD Convention on Combating Bribery of Foreign Public Officials in International Business Transactions	n.a.	n.a.

⁸ Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 52-58

⁹ Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 52-58

¹⁰ The Ornithology Report for Killik WPP

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	The project will cause dust emission during the construction phase. It is calculated by the investor that the dust emission will be below legal limits. All necessary precautions to ensure the air quality will be taken by the investor in line with the Regulation on Control of Excavation, Construction and Wreckage Wastes.	GOAL 7 Ensure Environmental Sustainability	Because of the excavation works, there will be dust emissions in the project area Parameter 1: Dust emissions during the construction phase Impact area: Project area Baseline: Current air quality in the region The company complies with local regulations and rules. In case of a complaint; the	0

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	These precautions include warning drivers about speed limits, sprinkling the circulation roads of trucks, covering the truckloads, loading and discharging of soil without swinging.		air quality in the region is measured by Institutions accredited by Ministry of Environment and Forestry on dust measurement.	
Water quality and quantity		GOAL 7 Ensure Environmental Sustainability	Parameter 2: The amount of discharged wastes to the water resources Impact Area: The impact area is the project construction site. Baseline: Natural water resource status at the project area There is no huge excavation works or tunnel driving activities which can affect the ground water in the region. In addition, the project will not result in any chemical wastes. Only there will be some domestic wastes and these wastes will not be released to the environment. All the wastes will be stored at the project site and to be collected by the garbage	0

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			collectors of the municipality. Therefore, no negative impact on water quality and quantity in the region is expected because of the project activity.	
Soil condition		GOAL 7 Ensure Environmental Sustainability	There will be excavation works because of the construction of the project. Parameter 3: The removal of excavated earth and landscaping activities Impact Area: The impact area is the project construction site The impact of the project to the soil condition is limited with the turbine locations. Baseline: Natural land status / No excavation in the project area. No negative impact on soil condition in the region is expected because of the project activity. The excavated earth will be re-used for the filling of the turbine foundation and site levelling purposes. Thus, no excavated soil will be transported	0

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			or stored outside the project area. ¹¹	
Other pollutants	In order to mitigate the noise level, the following noise mitigation measures will be incorporated into the design of the turbines: • The turbines with reduced noise operation system will be chosen. • The turbines are properly positioned in terms of possible noise emissions.	GOAL 7 Ensure Environmental Sustainability	The noise can be counted as one of the most concerning problems for wind power projects. Parameter 4: The noise level in the region after the project implementation Impact area: Project site and its surrounding area. Baseline: The natural wind noise In the Environmental and Social Assessment of the project, the background noise level is calculated and demonstrated that the background noise levels are below the limits set by "Turkish Regulation on assessment and Management of Environmental Noise"¹²	0
Biodiversity	In order to reduce the collision risk for birds and bats, the following	GOAL 7 Ensure Environmental Sustainability	There is no endangered flora or fauna in the project area. Also, the wind	0

¹¹ Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p. 20

¹² Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p. 64

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	mitigation actions will be taken: • The site is selected in an area where there are no important bird areas, wetlands or high bird activity. • Sufficient distance is placed between the turbines • Appropriate storm water management measures will be implemented to avoid creating small ponds which can attract birds and bats for feeding or nesting near the wind farm. • The turbine blades will be painted by reflecting colour and appropriate lighting of the wind turbines will be provided.¹³		mills will not have any effect on the animals of the villagers Also, the project site does not lie within any Important Bird Area (IBA) Although the project site is not located on a major migration route, in order to mitigate the risk of collision of birds and bats with the wind turbines, the wind mills will be designed and located appropriately. An ornithology report prepared by a third party indicating that reduction in the number of turbines may also be taken into consideration. Parameter: Impact on migration of birds Impact area: Project site Baseline: No barrier for bird and bat flights Future Target: No impact is expected from the project on migration routes of birds.	
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¹³ Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 52-58

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Social Development				
Quality of employment		GOAL 1: Eradicate Extreme Poverty and Hunger	The quality of the employment can be enhanced by trainings and the company provides this opportunity to its workers. Necessary trainings to the plant staff will be delivered by the supplier in line with the agreement between the project owner and the supplier. In addition, there will be trainings during the operation phase for both refreshing the knowledge of the existing personnel and the newly hired ones in the future. Parameter 6: Training records Impact Area: The workers hired for the construction and operation of Killik WPP. Baseline: Labour culture as usual The project proponent aims for improvement of safety for labour providers.	+

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			There will be on the job vocational training for those who does not have specific construction experience. All the workers will benefit from trainings on construction health and safety.	
Livelihood of the poor		GOAL 1: Eradicate Extreme Poverty and Hunger GOAL 3: Promote Gender Equality and Empower Women	The company contributes to the livelihood of the poor with in kind contributions for infrastructure improvements. The company will provide in kind contributions to the public institutions and will continue to contribute the livelihood of the poor at Killik village and the villages around the project area. But, the project does not have a direct impact on livelihood of the poor. Parameter: Changes in the trade capacity and employment of the surrounding region therefore increase in the living standards of the villagers Baseline: There are not enough job opportunities and the trade capacity	0

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			is very low.	
Access to affordable and clean energy services		N/A	The project increases the renewable energy use in Turkey's national grid. Parameter: Electricity supplied from Killik WPP to the national grid of Turkey. (kwh) Impact Area: Turkey's national grid Baseline: Turkey's national grid is mainly depends on fossil fuel fired power plants. The electricity generated in Killik WPP will diversify the electricity generation mix of Turkey. However, this impact is at a negligible level, since the electricity generation capacity of the project is very low when compared to the Turkey's national grid.	0
Human and institutional capacity		GOAL 1: Eradicate Extreme Poverty and Hunger GOAL 3: Promote Gender Equality and Empower Women GOAL 6: Combat HIV/AIDS, Malaria and Other Diseases	The workers of the project will be trained and also, the company is ready to provide in kind contributions to the infrastructure improvements in the region. However, no major impact is expected from the	0

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			project on improvement of the human and institutional capacity in the region. Parameter: Change in income and asset distribution by region, ethnicity, religion and socio-economic groups Baseline: If the project was not implemented no workers would be hired and no extra income would be generated through sales of construction materials.	
Economic and Technological development				
Quantitative employment and income generation		GOAL 1: Eradicate Extreme Poverty and Hunger	The project owner is committed to prioritize local labour force (labour force in Killik village and other surrounding villages) in selecting construction workers. Also, for the operation of the plant, the company will employ workers such as technicians, security staff etc. As a result the employment rate and income generation in the region will increase.	+

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			Parameter: Household income generated from the project. Impact Area: The workers of the project and their families Baseline: If the project was not implemented, no workers would be hired and no extra income would be generated. The company will provide job opportunities and as a result increase income generation in the region.	
Balance of payments and investment		GOAL 1: Eradicate Extreme Poverty and Hunger GOAL 8: Develop a Global Partnership for Development	The company invests in renewable energy technology and as a result decreases fossil fuel imports. Parameter 11: Net foreign currency savings from reduction of fossil fuel imports. Impact Area: Turkey Baseline: Turkey's national grid is mainly depends on imported fossil fuel fired power plants. The project will produce electricity from wind power, otherwise this	0

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			electricity will met from Turkey's national grid which is mainly depends on imported fossil fuel fired power plants. However, when compared to the electricity generation capacity of Turkey's national grid, the effect of the project will be at negligible level.	
Technology transfer and technological self-reliance	Positive Impact	GOAL 1: Eradicate Extreme Poverty and Hunger GOAL 8: Develop a Global Partnership for Development	The electromechanical equipments of the project will be imported from abroad and the supplier company will provide trainings to the technical staff. Parameter: Electromechanical Equipment Purchasing Agreement and engineers trained for the operation of the plant Impact Area: Technical staff of the project. Baseline: If the project was not implemented, there would not be any technology transfer The technical labours will gain know-how on wind power plant	0

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			operation. However, since wind power technology is already a well-known technology in Turkey, the contribution of the project is assessed negligible and the parameter is scored as "0"	
Justification choices, data source and provision of references				
Air quality	http://www.teias.gov.tr/ist2007/31(40-07).xls , highlight that the electricity generation mix of Turkey is currently dependent on thermal power plants.			
Water quality and quantity	Wind Power Plant project operation does not consume surface or groundwater, or discharge wastewater containing heat of chemicals. Also, the wastewaters and other wastes during the construction will be collected in tanks/containers and these wastes will be transported and disposed by the local municipality. (Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 43-44)			
Soil condition	There will be excavation works because of the construction of the project. However, no negative impact on soil condition in the region is expected because of the project activity. The excavated earth will be re-used for the filling of the turbine foundation and site levelling purposes. Thus, no excavated soil will be transported or stored outside the project area. (Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 19-22)			
Other pollutants	In the Project Description Reports of the project, the background noise level is calculated and demonstrated that the background noise levels are below the limits set by "Turkish Regulation on assessment and Management of Environmental Noise" (Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 64)			
Biodiversity	There is no endangered flora or fauna in the project area. Also, the wind mills will not have any effect on the animals of the villagers. Also, the project site does not lie within any Important Bird Area (IBA). Although the project site is not located on a major migration route, in order to mitigate the risk of collision of birds and bats with the wind turbines, the wind mills will be designed and located appropriately. (Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 52-58)			
Quality of employment	The Project will comply with the 4857 numbered Labor Law and its regulations. The project will be implemented in line with the Turkish Health and Safety Laws and Regulations. There will be on the job vocational training for those who does not have specific			

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	construction experience. All the workers will benefit from trainings on construction health and safety. Also, an Emergency Intervention Plan will be prepared in case of natural disasters, accidents, etc. (Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009, p 41)
Livelihood of the poor	The company contributes to the livelihood of the poor with in kind contributions for infrastructure improvements. The company will provide in kind contributions to the public institutions and will continue to contribute the livelihood of the poor at Killik village and the villages around the project area. But, the project does not have a direct impact on livelihood of the poor.
Access to affordable and clean energy services	http://www.teias.gov.tr/list2007/31(40-07).xls, highlights that the electricity generation mix of Turkey is currently dependent on thermal power plants
Human and institutional capacity	The workers of the project will be trained and also, the company is ready to provide in kind contributions to the infrastructure improvements in the region. However, no major impact is expected from the project on improvement of the human and institutional capacity in the region.
Quantitative employment and income generation	The project owner is committed to prioritize local labour force (labour force in Killik village and other surrounding villages) in selecting construction workers. Also, for the operation of the plant, the company will employ workers such as technicians, security staff etc. As a result the employment rate and income generation in the region will increase. The company will provide job opportunities and as a result increase income generation in the region. Workers for the construction and the operation periods of the plant will be hired. (Project Description Report for Killik Wind Power Plant Project in Turkey, prepared by MIMKO, dated December 2009)
Balance of payments and investment	The company saves net foreign currency by replacing renewable energy in place of electricity generation from imported fossil fuels. The link: http://www.iea.org/textbase/nppdf/free/2008/Key_stats_2008.pdf shows that Turkey is one of the biggest natural gas importers in the world. And also, the link: http://www.teias.gov.tr/lististik2008/3.xls shows that Turkey's installed capacity is mostly from thermal sources.
Technology transfer and technological self-reliance	The turbines are Danish made and supplied by Nordex which is one of the leading companies in wind turbine technology. The company has an agreement with Nordex for the purchasing of the turbines. Such agreement strengthens technology transfer and technological self-reliance in Turkey. The supplier company will provide trainings to the technical staff and this result in a know-how transfer.

SECTION G. Sustainability Monitoring Plan

[See Toolkit 2.4.3 and Toolkit Annex I]

No	1
Indicator	Air Quality
Mitigation measure	The project will cause dust emission during the construction phase.

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		It is calculated by the investor that the dust emission will be below legal limits. All necessary precautions to ensure the air quality will be taken by the investor. These precautions include, warning drivers about speed limits, sprinkling the circulation roads of trucks, covering the truckloads, loading and discharging of soil without swinging.
Chosen parameter		Dust emissions during the construction phase
Current situation of parameter		Current air quality in the project area
Future target for parameter		Compliance with local regulations and rules (Protection of Air Quality Regulation, Regulation on Controlling Air Pollution arising from Industrial Plants and Regulation on Control of Excavation, Construction and Wreckage Wastes) and lower dust emissions than the allowed limits by law.
Way of monitoring	How	On site observation
	When	Continuously
	By who	Institutions accredited by Ministry of Environment and Forestry on dust measurement / Local People / Mukhtar (Village Head)

No		2
Indicator		Water Quality and Quantity
Mitigation measure		Waste water produced by workers during construction and operation will be collected in a sealed septic tank and later discharged by the local authority as per the "Regulation on Control of Water Contamination"
Chosen parameter		Water Contamination
Current situation of parameter		No waste water will occur if the project will not be implemented.
Future target for parameter		The company will not discharge any waste water to the surface or ground water
Way of monitoring	How	Project activity site visit
	When	Continuously
	By who	The Municipality / Project Owner

No		1
Indicator		Other Pollutants (Noise)
Mitigation measure		The project will not exceed the noise limits which are set by "Turkish Regulation on assessment and Management of Environmental Noise " Also, in order to mitigate the noise level the turbines with reduced noise operation system were chosen and they will be properly positioned in terms of possible noise emissions.
Chosen parameter		The noise level in the region after the project implementation
Current situation of parameter		Natural wind noise in the region
Future target for parameter		The company chosen the brand new technology in wind turbines and these turbines will be positioned properly in the project area. It

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		is not expected from the project to cause more than the allowed noise limits set by the ministry.
Way of monitoring	How	By noise level measurement
	When	In case of a complaint
	By who	A third party which is accredited by the ministry

No		5
Indicator		Biodiversity
Mitigation measure		According to the EIA Report of the project, there is no endangered flora or fauna in the region. However, in order to mitigate the possible negative impacts of the project, some precautions are planned to be taken, such as: the site is selected in an area where there are no important bird areas, wetlands or high bird activity; sufficient distance (from 200 m to 1,320 m) is placed between the turbines; appropriate storm water management measures will be implemented to avoid creating small ponds which can attract birds and bats for feeding or nesting near the wind farm.
Chosen parameter		Impact on migration of birds
Current situation of parameter		No impact on migration routes of birds
Future target for parameter		No impact is expected from the project on migration routes of birds. Although the project is not located on a bird migration route and the bird collision risk is very low, the blades will be painted by reflecting colour and appropriate lighting of the wind turbines will be provided. In addition, appropriate storm water management measures will be implemented to avoid creating small ponds which can attract birds and bats for feeding or nesting near the wind farm.
Way of monitoring	How	Bird collisions will be monitored and reported
	When	Monitored Continuously and reported yearly
	By who	The company / Project manager

No	6
Indicator	Quality of employment
Mitigation measure	The project will train all employees on construction and operation of the plant. The project owner is willing to ensure safety at the site and is committed to prioritize local labour force in selecting construction workers.
Chosen parameter	Training records
Current situation of parameter	Labour culture as usual
Future target for parameter	The technical personnel will be trained for the operation of the plant. Also, all of the workers will be trained on health and safety. There will also be trainings during the operation phase for both refreshing the knowledge of the existing personnel and the newly hired ones in the future.

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Way of monitoring	How	Training records
	When	Yearly
	By who	The company / Project manager

No	10	
Indicator	Quantitative Employment and Income Generation	
Mitigation measure	Positive impact on Quantitative Employment and Income Generation in the region	
Chosen parameter	Household income generated from the project (The project owner is committed to prioritize local labour force while selecting construction workers. As a result the employment rate and income generation in the region will increase.)	
Current situation of parameter	If the project was not implemented, no workers would be hired and no extra income would be generated.	
Future target for parameter	The company will provide job opportunities and as a result increase income generation. 25 workers are targeted to be hired during the operation of the project and 10 workers are planned to be hired from the region.	
Way of monitoring	How	SGK (Social Security Institution) Records of the company
	When	Continuously
	By who	The company / Project manager

No	11	
Indicator	Tree Plantation	
Mitigation measure	In order to mitigate the effect of the project on flora in the region, the company will plant trees after the saplings are provided by Forestry Directorate of Tokat	
Chosen parameter	Number of trees planted in the region	
Current situation of parameter	Up to now, 250 trees have been planted.	
Future target for parameter	The company will plant all the saplings provided by Forestry Directorate of Tokat . Totally 3,000 trees will be planted by the company. Up to now, 250 trees have been planted.	
Way of monitoring	How	Project activity site visit
	When	Before the initial verification
	By who	Project Owner / Forestry Directorate of Tokat

No	9	
Indicator	Domestic Waste	
Mitigation measure	Domestic wastes are transported to the waste disposal areas of the municipality. No waste is disposed to the nature	
Chosen parameter	Agreement with the municipality, waste disposal records, existence of waste transportation vehicles or interview with the municipality	
Current situation of parameter	No waste would occur if the project is implemented.	
Future target for parameter	The company will not dispose any waste to the nature without control	

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Way of monitoring	How	Project activity site visit
	When	Continuously
	By who	The Municipality / Project Owner

No		10
Indicator		Waste Oil
Mitigation measure		Waste oils will be stored in the project area by the company and collected by the authorised companies accredited by the ministry. No waste is disposed to the nature
Chosen parameter		Waste disposal records, interview with the municipality
Current situation of parameter		No waste would occur if the project is implemented.
Future target for parameter		The company will not dispose any waste oil to the nature
Way of monitoring	How	Project activity site visit
	When	Continuously
	By who	The Municipality / Project Owner

No		2
Indicator		Expropriation
Mitigation measure		To store excavated earth, the company will used the only private land with written consent of the land owner
Chosen parameter		The only land purchased from the land owner is the location of the 8th turbine and the expropriation conducted for the 8th turbine will be monitored.
Current situation of parameter		If the project was not implemented, there would not be any excavated earth and no use of private land for storage of this material
Future target for parameter		The company will take all precautions to prevent any environmental and social damage while storing the excavated earth.
Way of monitoring	How	Land owner will be asked for feedback
	When	Monitoring will be during the 1 st verification.
	By who	Project owner / Land owner

Additional remarks monitoring

SECTION H. Additionality and conservativeness



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

H.1. Additionality

“Tool for the demonstration and assessment of additionality, Version 05.2” is applied for the assessment of the additionality of the project. Please see the additionality section of the PDD.

H.2. Conservativeness

All the calculations are made in a conservative approach. Details can be found in the PDD. Please see the following sections for :

- **Baseline Calculation:** B4.Description of baseline and its development
- **Investment Analysis:** B.5.Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered CDM large-scale project activity

ANNEX 1 ODA declarations

16.09.2010

Killik Wind Power Plant Project, Turkey

To: Gold Standard Foundation
Declaration of Non-Use of Official Development Assistance by Project Proponent

As Legal Owner ("Project Proponent") of the above-referenced project, acting on behalf of all project participants, I now make the following representations:

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

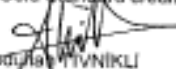
I. Gold Standard Documentation

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 : Abdullahi YIVNIKLI
Title : President
On behalf of : PEM Enerji A.Ş.

ANNEX 2 Original Stakeholder Comments during SFR



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Ad/Soyadı:	İbrahim KÖTEN.
İletişim Bilgisi (Tel, email v.s.)	05543465159
Tarih:	29.12.2011
İmza:	
Yorum:	Tokat Kılık Res projesinde yaklaşık bir yıldır çalışmaktayım. Proje gereği itibari ile çevre ve doğaya zarar vermemektedir. Yöre halkına iş konusunda belirli istihdam sağlanmaktadır. Tezekkürler. İbrahim KÖTEN Tekneli Köyü.

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Ad/Soyadı:	Mustafa Murat Kargısır
İletişim Bilgisi (Tel, email v.s.)	0549 214 00 60
Tarih:	29.12.2011
İmza:	
Yorum:	Tokat Kılık Res projesinde bir yıldır çalışmaktayım ve çalışmaya devam ediyorum. Bu proje sayesinde çevre halkı istihdam sağlanmıştır. Aynı zamanda ilke ekonomisine de büyük katkı sağlanmaktadır. Ekim holding ve pen enerjisi firmalarının çalışmalarından dolayı Tezekkür eder. Beklentilerinin devamını dileriz. Özel Güvenlik görevlisi Mustafa Kargısır TEKNELİ KÖYÜ



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Ad/Soyad:	Fazıl TAŞDAN
İletişim Bilgisi (Tel, email v.s.)	Tel: 0535 560 93 59
Tarih:	29.12.2011
İmza:	
Yorum:	Tokat Rüzgar Enerji santralinde, Teknoloji Köyü sahini olarak iştirak edim. Sağladığı istihdam ve çevreci bir yatırım olması nedeniyle Etkim holdinge teşekkürlerimi sunar, daha iyi ve yeni projelere hayırlısıyla katılım larımı beklerim. Özet Güncel Geçerli, Fazıl TAŞDAN

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Ad/Soyad:	
İletişim Bilgisi (Tel, email v.s.)	
Tarih:	
İmza:	
Yorum:	

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Developers Gold Standard version two

ECOFYS



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