

GOLD STANDARD PASSPORT

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SECTION A. Project Title

“Kayaduzu 40 MW Wind Power Plant, Turkey”

SECTION B. Project description

The project of **Baktepe Enerji A.S** (hereafter referred to as “Baktepe”), Kayaduzu Project (hereafter referred to as the “Project” or “Kayaduzu WPP”), involves installation and operation of 16 turbines with rated power output of 2.5 MW each to best suit the local conditions of the project area. The generation of total capacity of 40 MW will be connected to a switchyard, where the voltage will be stepped up will be stepped up to high voltage with 0.69/34.5kV, 1600kVA transformers connected to each unit. The 16 turbines in the park will be connected as a single group to the Wind Power Plant Control Building Switching Center via underground cables. The energy generated by the power plant in the project area will be transferred to the National Electricity System (TEİAŞ) via the 33kVA busbar of the Kayaduzu Transformer Station by a 2x (3x477) MCM, 33 kVA and 8 km power transmission line.

Baktepe has granted generation license as IPP for 39 MWe wind power plant by Energy Market Regulatory Authority (EMRA) and this licence was issued in June 2004. As project license has 39 MW, one of turbines with 2.5 MW will be capped by 1.5 MW electrical power. With this total installed capacity will be 40 MWm and 39 MWe as stated in licence.

An estimated generation of 111,670 MWh per year by the efficient utilization of the available wind energy by project activity will replace the grid electricity, which is constituted of different fuel sources, mainly fossil fuels. The electricity produced by project activity will result in an annual emission reduction of **66,777** tonnes of CO₂e. Moreover, project activity will contribute further dissemination of wind energy and extension of national power generation. It is expected that the generation of electricity will start as of June 2011 and will have an operational life of 20 years.

The project will help Turkey to stimulate and commercialise the use of grid connected renewable energy technologies and markets. Furthermore, the project will demonstrate the viability of grid connected wind farms which can support improved energy security, improved air quality, alternative sustainable energy futures, improved local livelihoods and sustainable renewable energy industry development. The specific goals of the project are to:

- reduce greenhouse gas emissions in Turkey compared to the business-as-usual scenario;
- help to stimulate the growth of the wind power industry in Turkey;







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- create local employment during the construction and the operation phase of the wind farm;
- reduce other pollutants resulting from power generation industry in Turkey, compared to a business as-usual scenario;
- help to reduce Turkey's increasing energy deficit;
- And differentiate the electricity generation mix and reduce import dependency.

The emission reductions will be generated by substituting electricity produced from the conventional mix representing electricity generation for the Turkish grid, which to a relevant extent depends on fossil fuels. The emission reductions will be calculated based on the Combined Margin (CM) emission factor. The emission reductions shall be generated for a 7 years renewable crediting period.

SECTION C. Proof of project eligibility

C.1. Scale of the Project

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

C.2. Host Country

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The host country is Republic of Turkey. Turkey ratified the Kyoto Protocol (on 5th February of 2009) and put in effect on 13th May 2009¹ but has no cap for GHG emissions.

C.3. Project Type

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

Please justify the eligibility of your project activity:

“Kayaduzu 40 MW WPP” is classified in the Renewable Energy Source category as electricity from non-fossil and non-depletable energy sources, in this case from wind power, is fed into the Turkish electricity grid.

Pre Announcement	Yes	No
Was your project previously announced?	<input type="checkbox"/>	X
No previous announcement has been done concerning the Kayaduzu 40 MW GPP.		

C.4. Greenhouse gas

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

¹ See, Official Gazette:

<http://rega.basbakanlik.gov.tr/main.aspx?home=http://rega.basbakanlik.gov.tr/eskiler/2009/05/20090513.htm&main=http://rega.basbakanlik.gov.tr/eskiler/2009/05/20090513.htm> (link in ‘Milletlerararı Sözleşme’ part)

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C.5. Project Registration Type

Project Registration Type	
Regular	X

Pre-feasibility assessment	Retroactive projects (T.2.5.1)	Preliminary evaluation (eg: Large Geothermal 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 Construction
dd/mm/yyyy: _____

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SECTION D. Unique project identification

D.1. GPS-coordinates of project location

	Coordinates
Latitude	40° 56' 15" N
Longitude	29° 31' 19" E



Explain given coordinates

The project is in the province Amasya, 8 km north-east to the town of Merzifon. The Kayaduzu wind farm project is planned on a mountain ridge. The region is characterized by mountains (complex terrain) with significant differences in height. The site is located on bare hills with poor vegetation like grass and bush land. The area is partly surrounded by transitional woodland and shrub. To the west and south of the site a large broad-leaved forest area is found. Project area is 37 km north-west to the province Amasya, in the Black Sea region of Turkey.

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D.2. Map



Map 1 Project location in Turkey

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SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

Minutes from LSC meeting

The local stakeholder meeting of Kayaduzu 40 MW WPP was held on 21st of September 2010, Tuesday, in Kayaduzu Town of Merzifon District, Amasya. Attendants of the meeting mainly included the residents of Kayaduzu Town and Bayat Village. Representative of Cultural and Tourism Directorate of Amasya City, Kayaduzu Town and TEMA Foundation were there to support construction of the WPP. Gold Standard local expert, supporter of Gold Standard Organizations i.e. WWF, Greenpeace, Helio International, REEEP, MercyCorps were informed about project but they did not attend to the meeting.

The place of the meeting is chosen in Kayaduzu Town as the closest place to the project location. Local people were invited to the meeting in advance by local announcements in the town and in the newspapers.

Before the presentation, agenda of the meeting and non-technical PDD was distributed to the participants for broader view. Project presentation and description was made by FutureCamp Turkey representative including information about project developers, the technology and operation of the power plant, estimated emission reduction amount of the plant, the importance of revenue from emission reduction, information about Gold Standard and the project characteristics which makes this project different from other power plant projects in Turkey. Before passing to blind sustainable development exercise, question and comments were taken from participants about further clarification of project.

After the presentation, he presented blind sustainable exercise to the participants and wanted them to comment on each indicator as positive, negative and neutral. After presentation some questions were raised by participants, which were answered by Baktepe and FutureCamp representatives. The questions and comments raised during the meeting are provided section ii. Assessment of all comments. After questions and comments, representative of TEMA foundation took stage to announce their support for WPP

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Assessment of comments

All comments from stakeholders were considered as serious and reasonable. An adequate answer was provided. Therefore, the single comments are not separately assessed in the table:

Stakeholder comment	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
Will you employ staff from local community?	Yes	As investing company we gave priority to employ staff from the closest settlements, however there will be requirements of the position for sure.
Is there any risk on our health due to transmission lines of the project.	Yes	There is always a risk around transmission lines, but the project lines will be new and the risk will not be as high as the risk created by existing old lines.
Is there any risk for migrating birds?	Yes	There is no negative impact of the project on migrating birds, while the project is neither on the route of migrating birds nor close to wet land.

E.2. Stakeholder Feedback Round

E.2.1. Introduction

The Gold Standard Organization process for VER includes two round stakeholder process. One is Local Stakeholder Consultation meeting process which was held on 21st of September 2010. The report of Local Stakeholder Consultation Meeting of Kayaduzu 40 MW HPP was submitted to Gold Standard Organization enabling the project to be listed on GS webpage. The second part of the Consultation is Stakeholder Feedback Round which was held between 17th of January 2011 and 25th March 2011. During this 2 months period, all project information was published on web site of FutureCamp Climate and Energy Ltd. enabling stakeholder to reach and comment on the documents. This section of GS Passport report is prepared to provide information regarding how stakeholder feedback round was held and respond of project developer to the comments raised by stakeholders during stakeholder feedback round.

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E.2.2. Providing Project Documents for Stakeholder Access

1.1 Publication of Project Documents on Website.

While second consultation process of Gold Standard does not include a physical meeting with stakeholders, with publication of project documents, it is aimed that all invitees of first meeting could reach the documents through internet access. For this reason;

- project PDD (in English),
- project Local Stakeholder Report (in Turkish and English),
- project Summary (in Turkish and English),
- project Gold Standard Passport (in English)

were available on internet page as <http://fc-tk.futurecamp.de/projeler/kayaduzu-res/> for two months to create opportunity for all stakeholders to reach documents. On the internet page there were different ways to direct comment to Gold Standard for project as;

- Via e-mailing to Farız Taşdan who is responsible to hold stakeholder consultation meetings
- Via Calling to Farız Taşdan who is responsible to hold stakeholder consultation meetings
- Via calling Mayor of Kayaduzu Town, which is the closest settlement to the project area (this way of commenting created to give opportunity to stakeholders to comment freely and feel that their comments will be held by an independent party)

b) Providing Project Documents as a Hard Copy in the Office of Major of Kayaduzu Town

Project documents were displayed and provided for stakeholder for two months as a hard copy in elected the Municipality of Kayaduzu town, which was the easiest way for access of anybody.

E.2.3. Invitations

E.2.3.1. Sending Invitation Letter to the Participants of Local Stakeholder Meeting

Invitees of initial stakeholder meeting were invited to the Stakeholder Feedback Round via e-mails and faxes. In the initial stakeholder meeting, attendants are mainly included the residents of Kayaduzu Town and Bayat Village. Representative of Cultural and Tourism Directorate of Amasya City, Kayaduzu Town and TEMA Foundation were there to support construction of the WPP. Gold Standard local expert, supporter of Gold Standard Organizations i.e. WWF, Greenpeace, Helio International, REEEP, MercyCorps were informed about project but they did not attend to the meeting. Representatives of Baktepe Enerji were also present in order to answer related questions.

During Stakeholder Feedback round of Kayaduzu 40 MW HPP, three local, three national NGOs and seven International NGOs, which were invited to the initial stakeholder meeting, were again invited for contributing their comments on the project.

As International NGOs, Gold Standard Organization, REEEP, HELIO International and MERCYCORPS were invited by e-mail and requested for their comments on the project; however there was not any response from international NGOs.

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Example of invitation letter in English and Turkish version can be found below

Figure 1 Sample Invitation Letter to the Stakeholder Feedback Round for Gold Standard Validation

14.01.2011

Subject: Stakeholder Feedback Round of Kayaduzu 40 MW HPP.

Dear Sirs / Madams,

The local stakeholder consultation process for the Gold Standard certification of the planned Kayaduzu 40 MW Hydro Power Project was held on 21.09.2010 in Kayaduzu Town, Amasya. The main element of this process was the meeting which we think was very interesting and informative. Thank you for your interest and your comments.

We herewith want to invite you to share your opinion with us during the second part of the stakeholder consultation process. The Gold Standard rules require two rounds of active stakeholder involvement. This second round is based on the outcome from the discussion during the meeting in Kayaduzu. The accordant documentation is available on the website at <http://fc-tk.futurecamp.de/projeler/kavakcali-hes/>

Published documents are; PDD, Gold Standard Passport, Local Stakeholder Consultation Report, Summary of the project

For detailed information regarding the project you can contact to:

Ebubekir Firtin

Baktepe Enerji
Fahrettin Kerim Gokay Cad. No:34,
Altunizade, 34662, Uskudar/İstanbul/Türkiye
Tel: (+90)-216-5442400 Faks: (+90)-216-5442418
ebubekir.firtin@iltekiletisim.com

For any questions or comments regarding this process, please contact to **Farız Taşdan** via below mentioned contact information. Thank you very much for your interest and participation.

Farız Taşdan

FutureCamp Türkiye
Çetin Emeç Bulvarı 19/18 06460, Çankaya / Ankara.
Tel: 0312 481 21 42
Fax: 0312 480 88 10
e-mail: fariz.tasdan@futurecamp.com.tr

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:FutureCamp
Türkiye

İlgili Makama

14.01.2011 FutureCamp İklim ve Enerji
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Çetin Emec Bulvarı 19/18
06460 Çankaya / Ankara, Türkiye
Fon +90 (312) 481 21 42
Fax +90 (312) 480 88 10
info@futurecamp.com.tr
www.futurecamp.com.tr

Konu: Gold Standard Organizasyonu, Gönüllü Karbon Azaltım Projeleri Çerçevesinde Yerel Halk Danışma Süreci Daveti H.K

Yapılması planlanan Kayadüzü Rüzgâr Elektrik Santrali yerel halk danışma toplantısına daha önce tarafımızca davet edildiniz. Halk danışma sürecinin asıl bölümü olan yerel halk danışma toplantısı sizin de bildiğiniz gibi 21 Eylül 2010 tarihinde Kayadüzü Beldesinin düğün salonunda düzenlendi.

Şu an halk danışma sürecinde ikinci kısma geçmiş bulunuyoruz ve bizimle proje konusunda yorumlarınızı paylaşmanızı istiyoruz. Gold Standard Kuruluşunun gerekleri, iki ayrı süreç dâhilinde halkın aktif katılımını ön görmektedir. Bu yerel halk danışma süreci, yerel halk danışma toplantısının sonuçlarına dayanmakta ve bununla ilgili dokümanlar da aşağıda belirtilen adreslerinde yayınlanmaktadır:

<http://fc-tk.futurecamp.de/projeler/kayaduzu-res/>

Yayınlanmakta olan belgeler: PDD (Proje Teknik Dökümanı), Gold Standard Pasaport, Yerel Halk Toplantı Raporu ve Proje Özeti.

Proje ile ilgili daha detaylı bilgi için aşağıdaki telefonlardan ilgili kişilere ulaşip sorularınızı iletebilirsiniz.

Ebubekir Firtin

Baktepe Enerji
Fahrettin Kerim Gökay Cad. No:34,
Altunizade, 34662, Üsküdar/İstanbul/Türkiye
Tel: (+90)-216-5442400 Faks: (+90)-216-5442418
ebubekir.firtin@iltekiletisim.com

Projeler ile ilgili yorum ve sorularınızı, e-mail veya telefon yolu **ile Farız Taşdan'a** iletebilirsiniz. Katılımınız ve ilginiz için teşekkür ederiz.

Farız Taşdan

FutureCamp Türkiye
Çetin Emec Bulvarı 19/18 06460, Çankaya / Ankara.
Tel: 0312 481 21 42 & Fax: 0312 480 88 10
e-mail: fariz.tasdan@futurecamp.com.tr

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E.2.3.2. Posting Announcement for Local Participants

The other way of inviting stakeholders was to post an announcement in the Municipality of Kayaduzu town, which is the closest settlement area to the project. Hard copies of related project documents were provided in the office so that local people can get access to the documents. This way, it was aimed to reach all local stakeholders. The announcement inviting stakeholders for comments and providing information how to send comments is shown below. The internet address of published documents and presence of hard copy of these documents in the Major's office were other information on the announcement.

Figure 2 The picture below gives short view of posting announcement



E.2.3.3. Comments Received

For local stakeholders, an evaluation form was provided with project documents that could be filled in easily to provide comments. There were no comments from the local people.

E.2.3.4. Conclusion

At the end of the period, there was no comment directed to e-mail or postal addresses provided in invitation letter. Below you can find a letter from Mayor of Kayaduzu which states that there were no comments regarding Stakeholder Feedback Round of Kayaduzu 40 MW HPP.

As result, there was no comment during stakeholder feedback round which would require amendments in PDD.

Figure 3 Letter of Major of Kayaduzu town and English Translation

Baktepe Enerji
Fahrettin Kerim Gokay Cad. No:34,
Altunizade, 34662,
Uskudar/İstanbul/Turkiye
Tel: (+90)-216-5442400
Faks: (+90)-216-5442418

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25.03.2011

Dear Sir/Madam,

Project document of Stakeholder Feedback Round of Kayaduzu HPP, namely project Local Stakeholder Consultation Report and project Summary, were provided in the office of Kayaduzu Town Head for local people' interest during the period of 17.01.2011 and 25.03.2011.

During this period, there was "-" comment submitted to me.

With due respect,

Mayor of Kayaduzu Town

Bahtiyar ÇİL

Signature



The Gold Standard
Premium quality carbon credits

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BAKTEPE ENERJİ A.Ş.

Fahrettin Kerim Gökay Cad. No:34, Altunizade, 34662.
Üsküdar/İstanbul/Türkiye
Tel: (+90)-216-5442400 Faks: (+90)-216-5442418

25/ 03/ 2011

Sayın Yetkili,

Kayadüzü Rüzgar Santrali, Gold Standard çerçevesinde düzenlenen ikinci halk danışma süreci proje dokümanları olan yerel Halk Danışma Toplantı raporu ve Proje Özeti 17.01.2011 ile 25.03.2011 tarihleri arasında yerel halkın ve ilgililerin erişimine sunulmuştur.

Bu süre zarfında konusu geçen proje ile ilgili olarak tarafıma..... adet yorum iletilmiştir.

Bahtiyar Çiğ
Belediye Başkanı


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SECTION F. Outcome Sustainability assessment

F.1. 'Do no harm' Assessment

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.	<p>The project respects internationally proclaimed human rights including dignity, cultural property.</p> <p>Turkey is a party to Universal Declaration of Human Rights: http://ua.mfa.gov.tr/detay.aspx?2634</p>	Low/none	
2. The project does not involve and is not complicit in involuntary resettlement.	According to the PIF of Kayaduzu GPP there are no settlements areas close to the project site, and therefore no resettlements are necessary ² .	Low/none	
3. The project does not involve and is not complicity in the alteration, damage or removal of any critical cultural heritage.	According to the Project Information File (PIF), the project does not involve and is in no conflict with critical cultural heritage ³ .	Low/none	

² Kayaduzu 40 MW GPP, Project Introduction File, page: 8

³ Kayaduzu 40 MW GPP, Project Introduction File, page: 68

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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	The project respects the employees' freedom of association and their rights. Turkey is a party to ILO Convention 87 Freedom of Association and Protection of the Right to Organise Convention, 1948: http://ua.mfa.gov.tr/detay.aspx?5305	Low/none	
5. The project does not involve and is not complicit in any form of forced or compulsory labour.	The project does not involve any form forced labour. Turkey is a party to C29 Forced Labour Convention : http://www.diyih.gov.tr/article.php?article_id=31	Low/none	
6. The project does not employ and is not complicit in any form of child labour.	The project does not involve any form child labour. Turkey is also a party to Convention on Worst Forms of Child Labour since 1999. http://webfusion.ilo.org/public/db/standards/normes/appl/appbyCtry.cfm?lang=en&CTYCH OICE=0660	Low/none	
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.	The project does not involve any form of discrimination in any kind. Turkey is also party to Convention on Discrimination since 1967 to prevent any form of discrimination; http://webfusion.ilo.org/public/db/standards/normes/appl/appbyCtry.cfm?lang=en&CTYCH OICE=0660	Low/none	
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	Workers might have occupational accidents during construction and operation phase. According to the PIF of the project, during construction and operational phase of the project "Health and Occupational Safety Regulation" will be followed ⁴ . Regulation could be found under this link too: http://www.mevzuat.adalet.gov.tr/html/5116.html	Medium	Necessary health and safety measures will be taken during construction and operation phase, the staff will be trained to be able to work with high voltages..

⁴ Kayaduzu 40 MW GPP, Project Introduction File, page: 52

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Environmental Protection			
<p>9. The project takes a precautionary approach in regard to environmental challenges and is not complicity in practices contrary to the precautionary principle. This principle can be defined⁵ as: "When an activity raises threats of harm to human health or the environment, precautionary measures should be taken even if some cause and effect relationships are not fully established scientifically."</p>	<p>Being wind power project, the project has minimum impact on environment and takes precautionary approach in regard to environmental challenges. According to the PIF of the project all Regulation which entered into force with Environmental Law Numbered 2872 will be followed⁶</p>	<p>Low/none</p>	<p>- Blades of turbines will be painted with orange colour</p> <p>- A red flashing light will be mounted on top of turbines</p>
<p>10. The project does not involve and is not complicity 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</p>	<p>The project does not involve and is not complicity in significant conversion or degradation of critical natural habitats as it is stated in the PIF. As explained in the 9th safeguarding principle, negative impact of the project activity on the environment would be minimum.</p>	<p>Low</p>	
Anti-Corruption			
<p>11. The project does not involve and is not complicit in corruption</p>	<p>The project does not involve any kind of corruption. Turkey is a party to United Nation Convention against Corruption since 2006; http://ua.mfa.gov.tr/detay.aspx?15042</p>	<p>Low/none</p>	

⁵ The Wingspread Conference on the Precautionary Principle (1998)

⁶ Kayaduzu 40 MW GPP, Project Introduction File, pages: 54-64

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F.2. 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' assessment, and include mitigation measure used to neutralise a score of '-'	<p>Check www.undp.org/mdg and www.mdgmonitor.org</p> <p>Describe how your indicator is related to local MDG goals</p>	Defined by project developer	<p><u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated</p> <p><u>No change in impact:</u> score '0'</p> <p><u>Positive impact:</u> score '+'</p>
Air quality	b) Dust emissions will be reduced by watering the roads frequently.	<p>MDG- 7: Ensure Environment Sustainability</p> <p>7.A Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources</p> <p>7. B Reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss</p>	<p>Parameter:</p> <p>a) Amount of CO, NMVOC</p> <p>b) Level of dust emissions during construction of the project activity;</p> <p>Explanation: a) Due to avoidance of fossil fuel combustion, these emissions will be reduced in parallel to reduced CO₂.</p> <p>b) There will also be minimum dust emissions during construction of the plants.</p> <p>Baseline for parameters:</p> <p>Parameter s a) CO: +0.143 tons and NMVOC: +0.036 tons per each GWh electricity generated.</p> <p>b) Dust due to wind.</p> <p>Future target for parameters:</p> <p>Parameters a) CO: - 15.969 tons/year and NMVOC: - 4.02 tons/year avoidance with annual generation of the project.</p> <p>b) Continuation of the baseline</p>	+

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Water quality and quantity		<p>MDG- 7: Ensure Environment Sustainability</p> <p>7.C Halve, by 2015, the proportion of the population without sustainable access to safe drinking water and basic sanitation⁷</p>	<p>Parameter: Amount of wastewater to be discharged to the environment by project activity.</p> <p>Explanation: Thermal power plants produce considerable amount wastewater especially due to cooling. By the project activity, significant amount of wastewater discharge will be avoided. However, such positive effect on local level is difficult to show. Therefore, scored 0.</p> <p>Baseline for parameter: a) + 22,400 m³ of wastewater production with each GWh electricity generated. Continuation of Pre-project scenario.</p> <p>Future target for parameter: a) Continuation of baseline scenario</p>	0
Soil condition	b) There will be land arrangement after construction.	<p>MDG- 7: Ensure Environment Sustainability</p> <p>7.A Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources</p>	<p>Parameter: a) NOx emissions, b) Land usage c) Road conditions</p> <p>Explanation: Erosion risk due to broadening the road for the project activity. Project may have impact on land usage in the project area. Furthermore, the project might have negative impact on the roads during construction stage.</p> <p>Baseline for parameter: a) + 1.651 tons with each GWh electricity generated. b) Zero c) Roads are in good condition</p> <p>Future target for parameter: a) – 184,367 tons/year avoidance with annual generation of the project. b) Not Applicable c) Roads might have some damages.</p>	0
Other pollutants		<p>MDG- 7: Ensure Environment Sustainability</p> <p>7.A Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental</p>	<p>Parameters: Noise during operation of power plant</p> <p>Explanation: During the operation of the wind farm there will be some noise due to turbines. However, there will be no negative impact on the settlement areas in this project due to the distance.</p> <p>Baseline: Natural noise from trees, wind , close railway and daily activities</p>	0

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		resources	Future target for parameter: Continuation of current situation.	
Biodiversity	<p>- Blades of turbines will be painted with orange colour</p> <p>- A red flashing light will be mounted on top of turbines</p>	<p>MDG- 7: Ensure Environment Sustainability</p> <p>7. B Reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss</p>	<p>Parameters: Number of bird strikes</p> <p>Explanation: according to PIF there are no impacts on species and habitats. Please see explanation further below.</p> <p>Baseline for parameters: Parameter a): Zero</p> <p>Future target for parameters: Parameter a): Zero</p>	0
Quality of employment	<p>Only staff of operation & maintenance contractor who has climbing certificates will have right to access to towers (accessing the turbines).</p>	<p>MDG-1: Eradicate extreme poverty & hunger</p> <p>1.B. Achieve full and productive employment and decent work for all, including women and young people</p>	<p>Parameter: Health and Safety Trainings</p> <p>Explanation: Project developer ensures high standard health and safety conditions for the employees.</p> <p>Baseline for parameters: Not applicable</p> <p>Future target for parameters: All employees will be trained on Occupational Health and Safety issue.</p>	+
Livelihood of the poor		<p>MDG-1: Eradicate extreme poverty & hunger</p> <p>1.A. Halve, between 1990 and 2015, the proportion of people whose income is less than \$1 a day</p>	<p>Parameter: Number of people living under the poverty line</p> <p>Explanation: Income generation by local recruitment with project activity will have indirect impacts to changing living standards of the local people and number of people living under poverty line.</p> <p>Baseline for parameter: 0</p> <p>Future target for parameters: Not applicable</p>	0
Access to affordable and clean energy services			<p>Parameter: Change in energy use of local people</p> <p>Explanation: The project will help to reduce high share of imported fossil fuel dependency of Turkey.</p> <p>Baseline for parameter: ~%75 fossil fuel share</p> <p>Future target for parameters: ~%75 fossil fuel share (Shifting some fossil fuel</p>	0

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			based electricity generation but to be conservative it is considered to be same with baseline situation)	
Human and institutional capacity		<p>MDG-1: Eradicate extreme poverty & hunger</p> <p>1.A.Halve, between 1990 and 2015, the proportion of people whose income is less than \$1 a day</p> <p>1.B. Achieve full and productive employment and decent work for all, including women and young people</p>	<p>Parameter: Number of local employment</p> <p>Explanation: The project will create new employments on the project region.</p> <p>Baseline for parameter: Agricultural related employment.</p> <p>Future target for parameter: Project will create additional employments.</p>	0
Quantitative employment and income generation		<p>MDG-1: Eradicate extreme poverty & hunger</p> <p>1.A.Halve, between 1990 and 2015, the proportion of people whose income is less than \$1 a day</p>	<p>Parameter: Number of local employment</p> <p>Explanation: The project will create new employments on the project region.</p>	+
Balance of payments and investment		<p>MDG-8.D Develop a global partnership for development</p> <p>8.C Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.</p>	<p>Parameter:</p> <ul style="list-style-type: none"> a) Amount of payment for natural gas to be imported for electricity generation b) as well as money earned by locals. <p>Explanation:</p> <ul style="list-style-type: none"> a) Turkey imports nearly all of natural gas and some of the coal consumed. The project will have positive impacts on balance of payments with shifting some of electricity generation from thermal to wind power. b) Furthermore, Private lands to be utilized for the project activity will be compensated properly. <p>Baseline for parameter: a) Around +27,093 Euro for each GWh of</p>	+

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			<p>electricity generated by natural gas fired PPs. b)Continuation of baseline situation. No compensations have been done.</p> <p>Future target for parameter: a)1,516,125 Euro with annual generation of the project. b)not applicable</p>	
Technology transfer and technological self-reliance		<p>MDG-8.F In cooperation with the private sector, make available the benefits of new technologies, especially information and communications.</p>	<p>Parameter: Total number of employee having wind power plant related trainings.</p> <p>Explanation: With this project, employees will be trained with wind power project related issues.</p> <p>Baseline for parameter: Not applicable</p> <p>Future target for parameter: ~Zero (Even though staff will be trained for daily operation of the power plant, impacts of these trainings on technology transfer couldn't be substantiated).</p>	0
<p>Justification choices, data source and provision of references A justification paragraph and reference source is required for each indicator, regardless of score</p>				
Air quality	<p>According to the projections given in B.4 part of the PDD, in the baseline situation new capacity additions will most probably be fossil fuel fired power plants (with %75 share in 2018).</p> <p>Electricity generated from the wind power plants partially substitute electricity generation from fossil fuel fired power plants that represent a large share of the Turkish grid generation mix. Thus, besides greenhouse gases, all other air pollutants (e.g. SO_x, NO_x), particle and VOC emissions are avoided by the project activity. For CO and NMVOC emission amount see TUIK: http://www.tuik.gov.tr/PreHaberBultenleri.do?id=6276&tb_id=8; For net electricity generation in 20078 see TEİAŞ: http://www.teias.gov.tr/istatistik2008/30(84-08).xls.</p> <p>Dust emergence connected to the project activity appears only for a short time during the construction phase and will be caused by digging foundations, land arrangement works and construction. Project developer takes all precautionary actions to prevent dust according to the PIF and Regulations⁸. Hence, we can conclude that there will be minimum impact of the dust emissions on the project area. The mitigation measures as watering the roads will be monitored once for the construction by statement from head of village. This is as well included in the monitoring plan.</p> <p>Therefore, in the SDM the positive effect of the project on the air quality is scored with (+).</p> <p>The positive impact of wind power on air quality is described in Sustainability Monitoring Plan (section G) of GS Passport. Net project generation shall serve as evidence of positive impact of the project activity on this indicator and will be monitored annually as indicated in Section G.</p>			

⁸ Kayaduzu 40 MW WPP, Project Introduction File, page:62

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Water quality and quantity	<p>In the baseline, thermal power plants discharges significant amount of waste water to the environment after usage for cooling etc. Hence, with the project activity considerable amount of water discharge will be avoided with substituting partially thermal power plants. For Wastewater discharged by thermal PPs in 2008 see: http://www.turkstat.gov.tr/PreHaberBultenleri.do?id=6171&tb_id=2.</p> <p>During operation of project activity only small amount of waste water to be discharged environment. Wastewater production is due to daily consumption of workers. This as well as the cesspool discharge shall be monitored and verified once during first verification. Therefore, this is as well included in the monitoring plan.</p> <p>Significant amount of wastewater will be avoided by the project activity. However, as it is difficult to show the direct positive effect on local level neutral score is given to this indicator and therefore will not be monitored during operation of the project activity as described in the Sustainability Monitoring Plan (section G) of GS Passport.</p>
Soil condition	<p>In the baseline, thermal power plants emits significant amount of NOx which have negative impact to the quality of soil. The adverse affect of emissions of NOx on soil conditions is acid rains http://en.wikipedia.org/wiki/Acid_rain. Acid rains can damage soil conditions badly. With proposed project activity significant amount of NOx emission will be avoided due to substituting partially thermal power plant electricity generation. For NOx emission amount see TUIK: http://www.tuik.gov.tr/PreHaberBultenleri.do?id=6276&tb_id=8, For net electricity generation in 2008 see TEİAŞ: http://www.teias.gov.tr/istatistik2008/30(84-08).xls.</p> <p>Some pieces of lands will be purchased for the project activity, which are being used for grazing before the project. Remaining lands after project activity will be left usage to owners for grazing activities. This shall be monitored and verified once during first verification. Therefore, this is as well included in the monitoring plan.</p> <p>Moreover, excavation waste can be generated during construction. In the PIF (page 22), it has been explained that 59,936 m3 excavation waste will be produced, which will be used as landscaping of the Project area". This shall be monitored and verified once during first verification. Therefore, this is as well included in the monitoring plan.</p> <p>Furthermore, during construction stage there might be some road damages observed. Those roads, however, will be repaired after construction stage is over. This has been also confirmed by the Muhtar during the validation on side meeting. However, in order to stay conservative as possible, road condition shall be monitored during the first verification period. Therefore, this is as well included in the monitoring plan.</p> <p>Even though positive impact of the project with reducing NOx amount, to be conservative, in the SDM, effect of the project on the soil condition is scored with zero (0).</p> <p>Land usage will be monitored as described in the Sustainability Monitoring Plan (section G) of the GS Passport.</p>
Other pollutants	<p>For this indicator, noise is defined as relevant parameter with the project activity. Since impact of noise can be significant only close area of the project, surrounding area of the project activity is selected as impact assessment boundary and for the baseline, continuation of current situation which is noise stemming from wind, movement of leaf and daily life in the close villages.</p> <p>Solid waste produced per person will be 1.34kg/day, thus when plant is under construction; total waste is 26.8 Kg/day, and during operation 6.7 kg7day. The solid waste will firstly be separated for recycling if possible, if not it will be collected in rubbish bins and will be collected by Merzifon municipality. This shall be monitored and verified once during first verification. Therefore, this is as well included in the monitoring plan.</p>

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	<p>In the context of the wind farms noise of the turbines can be considered under other pollutants. The distance of the project to closest settlement (Cuvunur village) is more than 2 km. While noise level is 37.04 dBA in 250 meter from WPP, regarding Distance Related Noise Graphic for industrial plants according to Regulation of Assessment and Management of Environmental Noise, the noise level from Kayaduzu WPP is far below allowed level⁹ i.e., the noise caused by the wind turbines will not affect the villages in the area. Therefore, in the SDM the negligible effect of the project on the other pollutants is scored with (0). This shall be monitored and verified once during first verification. Therefore, this is as well included in the monitoring plan.</p>
Biodiversity	<p>In the project area, there is no risk for birds, because project area is neither on the way for migrating birds nor an area for birds according to PIF¹⁰. Furthermore, Baktepe an ornithological report has been prepared by an expert ornitolog to assess the impact of the turbines to the local and migrating birds. The report has been concluded that the project will not have any negative impact to the local and migrating birds but to be prepared for the worst conditions below measures are recommended to be implemented to the project activity¹¹:</p> <p>a) Blades of the turbines shall be painted with orange colour in order to increase visibility of turbines and help to birds to notice the turbines from pretty far distances b) To mount a flashing red lamp on top of turbines in order to help birds migrating during nights to notice the turbines.</p> <p>The project area is not in natural protection zone. Project area is on land of the village and public and the dominant vegetation consists of olive trees. Also, according to PIF (page 49), there is no endemic species around the project area¹⁰.</p> <p>Therefore, in the SDM the negligible effect of the project on biodiversity is scored with (0) and measures mentioned about for the birds will be monitored.</p>
Quality of employment	<p>In context of wind power projects, height of the towers and rotating parts (such as blades) has some accident risks. Only trained and certificated personnel shall have access to turbines. For Kayaduzu WPP operation & maintenance contractor has the sole responsibility for operation and maintenance. Hence, only trained and certificated staff of the contractor has right to access to towers, climb and perform necessary actions on turbines in case of emergency or fault. Therefore, there is no project related safety risk for this project.</p> <p>Project developer will also ensure healthy and safe working conditions for the employers with internal procedures and equipments. Whole staff has been trained on Occupational Safety and Health. There are instructions for health and safety issues around the whole project area. Technical jobs created by project activity are highly qualified as the wind power plants in Turkey are not common practice and having experience on operation of these plants creates advantages for these employees.</p> <p>Trainings and certificates provided will increase their capacity to be able to work in such an environment. All the trainings will be in accordance with Regulations of Ministry Labour and Social Security: http://www.isguvenligi.net/mevzuat/4857_isig_yonetmelikleri/is_sagligi_ve_guvenligi_yonetmeligi.pdf</p> <p>The project employer will not face to project specific risks (i.e. climbing to towers) and they will have trainings on health and safety issues. Also technical jobs created by this project is highly qualified as explained above. Therefore, this indicator is scored with (+).</p> <p>Chosen parameter which is 'Health and Safety Trainings' will be monitored as described in the</p>

⁹ Kayaduzu 40 MW WPP Project Introduction File (Pages 28-62)

¹⁰ Kayaduzu 40 MW WPP Project Introduction File (Pages 49-56)

¹¹ Kayaduzu Ornithology Report, page 5 and 6

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	Sustainability Monitoring Plan (section G) of the GS Passport.
Livelihood of the poor	<p>Generating electricity from resources that was not used before, generates an additional income to the local community, influencing the poverty alleviation, particularly in the rural areas, and accelerates the regional economic development. The stakeholders also confirmed that the project will have positive impacts on the livelihood of the poor by scoring (+) to this indicator. Also project developer is recruiting personnel for security or construction of the project from close villages, subcontractors are also from the same region.</p> <p>According to Turkish Statistical Institute (TUIK) number of people having daily income below 1 \$ is zero (please see: http://www.turkstat.gov.tr/PreHaberBultenleri.do?id=4151&tb_id=2). Hence, even though project activity has some positive indirect impact on livelihood of poor, impact on the number of people under poverty line is negligible. Therefore this parameter is scored with (0).</p> <p>Since this indicator is scored zero and no mitigation measure is required, chosen parameter, number of people under poverty line, will not be monitored.</p>
Access to affordable and clean energy services	<p>As a local energy source, wind power helps to mitigate Turkey's high import dependency and thus improves the access to energy services, especially in the scenarios of import stops or energy price hikes. The International Energy Agency criticizes dependency on oil and gas imports and demands for expansion of renewable energy in Turkey (cf. IEA: Energy Policies, Turkey 2005 review, 2005, pages 85, 100 and 129). However, as the improved access to energy services does not affect the local public (as the electricity is delivered to the grid) and cannot be assigned to specific consumers and therefore not be monitored, a conservative score of zero is applied to this indicator.</p> <p>Since this indicator is scored with zero and there is no mitigation measure for this indicator, chosen parameter, i.e. change in energy use of local people, will not be monitored.</p>
Human and institutional capacity	<p>Even though project will create significant amount job opportunities (please refer to 'Quantitative employment and income generation' indicator, due to lack of interest of women to these kind of jobs stemming from norms of society, impact of the project to this indicator is expected to be neutral.</p> <p>Project activity will not have any impact to lands and villagers will continue their pre-project activities after project implementation. Hence pre and post project situation for this parameter is zero</p> <p>Since impact of the project activity to this indicator is scored zero, selected parameter will not be monitored.</p>
Quantitative employment and income generation	<p>Within the construction of the project, there will be created employment opportunities for workers. It is planned that, during construction 15 and during operation 4 staff will be employed in the plant. In pre-project situation, employments in project area are related with agricultural activities. Unregistered employments in agricultural sector is wide in Turkey so most of them are lack of social insurance. There are some EU funded projects on reducing unregistered employment in agricultural sector (see: http://amasyadsybtarimdaistihdam.org/hak.php). The proposed project will create new employments with social insurance.</p> <p>Since, the impact of the parameter to this indicator is scored positive, Number of local employment during operation will be monitored as described in Section G.</p>
Balance of payments and investment	<p>The project and its role in strengthening the sustainable sector of electricity generation in Turkey tend to contribute to mitigation of import dependency. The project generation will shift correspondent amount of natural gas fired electricity generation. With this, payments for natural gas imported will decrease. Hence the project will have positive impact on this indicator and it is scored with (+) in the SDM. For reference see TEİAŞ statistics for 2008: http://www.teias.gov.tr/istatistik2008/index.htm.</p>

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	<p>Lands to be utilized for the project activity will be compensated properly.</p> <p>Hence the project will have positive impact on this indicator and it is scored with (+) in the SDM. The positive effect of the project to this indicator is described in Sustainability Monitoring Plan (section G) of the GS Passport. Share of natural gas fired electricity in Turkish electricity mix will be reported to show continuous positive impact of the project as described in section G. Furthermore, compensation payments for lands purchased will be monitored as described in Section G.</p>
<p>Technology transfer and technological self-reliance</p>	<p>As the project developer is a Turkish company using the returns from the GS VER project to enable the realization of the wind power plant, the Turkish capabilities, competencies and self-reliance regarding the introduction of innovative technologies are strengthened. The project developer considers the investment into and the operation of a new technology in Turkey as a contribution to technological self reliance due to the gathered experience with the proposed project. And some of the employees will be trained for wind power plant related issues.</p> <p>However, since it is difficult to substantiate and monitor that these trainings will lead an important know-how and technology transfer, this indicator is scored with (0) in the SDM, to be conservative. Since this indicator is scored zero and no mitigation measure is required chosen parameter, i.e. total number of employee having operation and maintenance certificates will not be monitored</p>

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SECTION G. Sustainability Monitoring Plan

No	1	
Indicator	Air Quality	
Mitigation measure	a) No mitigation measure required b) Dust emissions will be reduced by watering the roads frequently.	
Chosen parameters	a) Amount of CO, NMVOC b) Level of dust emissions during construction of the project activity;	
Current situation of parameter	b) Dust emissions due to wind	
Estimation of baseline situation of parameter	a) According to latest official data CO and NMVOC emissions due to electricity generation in 2008 are: 0.143 tons/GWh and 0.036 tons/GWh respectively ¹² .	
Future target for parameter	a) Reductions of proportionate amount in described emissions during operational life of the project activity. When electricity generation amount (111,670 MWh/y) is considered for the project activity then expected annual emission avoidances with project implementation becomes 15.969 and 4.02 tons respectively for each parameter. b) Continuation of the current situation	
Way of monitoring	How	a) Amount of electricity generated will be monitored to calculate estimated CO and NMVOC emission reductions by project activity. b) Photos of excavators watering the ground in summer season will be taken. Furthermore, written confirmation by the local Muhtar shall be available during the first monitoring period and verification.
	When	a) Annually b) Once during the first verification
	By who	Assigned technician by Plant Manager or assigned carbon consultant

No.	2	
Indicator	Air Quality: dust	
Mitigation measures	Dust emergence connected to the project activity appears only for a short time during the construction phase and will be caused by digging foundations, land arrangement works and construction. Project developer takes all precautionary actions to prevent dust according the PIF and Regulations ¹³ . Hence, we can conclude that there will be minimum impact of the dust emissions on the project area.	
Chosen parameter	Dust	
Current situation of parameter	No dust has been generated.	
Estimation of baseline situation of parameter	Continuation of current situation	
Future target for parameter	Continuation of baseline situation	
Way of monitoring	How	The mitigation measures as watering the roads will be monitored once for the construction by statement from head of village.
	When	Once during first verification.

¹²¹² The unit emissions are calculated as dividing emission amount for each parameter with net electricity amount. (For CO and NMVOC emission amounts see TUIK: http://www.tuik.gov.tr/PreHaberBultenleri.do?id=6276&tb_id=7 and http://www.tuik.gov.tr/PreHaberBultenleri.do?id=6276&tb_id=8, respectively); For net electricity generation in 2008 see TEİAŞ [http://www.teias.gov.tr/istatistik2008/30\(84-08\).xls](http://www.teias.gov.tr/istatistik2008/30(84-08).xls). Calculation is further substantiated in Monitoring Plan of CM Calculation Worksheet, which is available to DOE.

¹³ Kayaduzu 40 MW WPP, Project Introduction File, page:62

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	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.
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No.		3
Indicator		Water quality: Cesspool discharge
Mitigation measures		Wastewater produced by workers during construction and operation will not be released to the environment but will be collected in an impermeable septic tank, which will be constructed on the site. Later they will be periodically transferred to the wastewater treatment plant of Belen Municipality by sewage truck.
Chosen parameter		Wastewater gathered in the cesspool.
Current situation of parameter		No wastewater has been generated and gathered.
Estimation of baseline situation of parameter		Continuation of current situation
Future target for parameter		Continuation of baseline situation
Way of monitoring	How	Amount of wastewater produced by workers shall be monitored. Statement of wastewater treatment plant confirming that tanks are emptied there can as well be provided during the first verification.
	When	Once during first verification.
	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.

No.		4
Indicator		Soil condition: excavation waste
Mitigation measures		Excavation waste can be generated during construction. In the PIF (page 22), it has been explained that 59,936 m ³ excavation waste will be produced, which will be used as landscaping of the Project area".
Chosen parameter		Excavation waste.
Current situation of parameter		No excavation waste has been generated.
Estimation of baseline situation of parameter		Continuation of current situation
Future target for parameter		Continuation of baseline situation
Way of monitoring	How	This will be monitored with Project photos during operation.
	When	Once during first verification.
	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.

No		5
Chosen parameter		Land usage
Mitigation measures		Lands that are used for grazing purposes shall be taken only for short period of time during construction. Those lands shall be returned for grazing purposes as long as the construction stage is over.
Current situation of parameter		Lands to be purchased from owners are being used for grazing purposes.
Estimation of baseline situation of parameter		Continuation of current situation
Future target for parameter		Usage of remaining lands for grazing activities by previous owners will be allowed.
Way of monitoring	How	Checking the lands during first on site visit and statement of land owners.

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	When	Once during first verification
	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.

No.	6	
Indicator	Other pollutants: Solid waste disposal	
Mitigation measures	Solid waste produced per person will be 1.34kg/day, thus when plant is under construction; total waste is 26.8 Kg/day, and during operation 6.7 kg7day. The solid waste will firstly be separated for recycling if possible, if not it will be collected in rubbish bins and will be collected by Merzifon municipality.	
Chosen parameter	Solid waste	
Current situation of parameter	No solid waste has been generated.	
Estimation of baseline situation of parameter	Continuation of current situation	
Future target for parameter	Continuation of baseline situation	
Way of monitoring	How	Amount of solid waste shall be monitored. This will be monitored with a letter from Mayor of Kayaduzu Municipality.
	When	Once during first verification.
	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.

No.	7	
Indicator	Other pollutants: Noise	
Mitigation measures	The distance of the project to closest settlement (Cuvunur village) is more than 2 km. While noise level is 37.04 dBA in 250 meter from WPP, regarding Distance Related Noise Graphic for industrial plants according to Regulation of Assessment and Management of Environmental Noise, the noise level from Kayaduzu WPP is far below allowed level ¹⁴ i.e., the noise caused by the wind turbines will not affect the villages in the area.	
Chosen parameter	Noise	
Current situation of parameter	No noise has been generated.	
Estimation of baseline situation of parameter	Continuation of current situation	
Future target for parameter	Continuation of baseline situation	
Way of monitoring	How	This will be monitored with a letter from Mayor of Kayaduzu Municipality.
	When	Once during first verification.
	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.

No	8	
Chosen parameter	Road conditions	
Mitigation measure	Roads can be damaged during construction stage as they might be used for bigger vehicles. As long as the construction stage is over, the roads shall be repaired.	
Current situation of parameter	Roads are used only for the small vehicles of local people from the	

¹⁴ Kayaduzu 40 MW WPP Project Introduction File (Pages 28-62)

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		village. Therefore, no damage has been observed.
Estimation of baseline situation of parameter		Continuation of current situation
Future target for parameter		Repairing of the road after construction stage is over.
Way of monitoring	How	Checking the roads during first on site visit and statement of local people
	When	Once during first verification
	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.

No		9
Chosen parameter		Biodiversity
Mitigation measure		- Blades of turbines will be painted with orange colour - A red flashing light will be mounted on top of turbines
Current situation of parameter		No turbines on the area
Estimation of baseline situation of parameter		Continuation of current situation
Future target for parameter		Painting of turbine blades and mounting of red lights on top of turbines.
Way of monitoring	How	By observation of measures on site with DOE.
	When	Once during first verification
	By who	Assigned technician by Plant Manager or assigned carbon consultant and DOE.

No		10
Indicator		Quality of employment
Mitigation measure		Not applicable.
Chosen parameter		Health and Safety Trainings
Current situation of parameter		Not applicable.
Estimation of baseline situation of parameter		Not applicable
Future target for parameter		All staff will have trainings on Occupational Health and Safety issue.
Way of monitoring	How	Training attendance list and/or certificates.
	When	Annually (Once at the end of the each monitoring period). After first verification period, only new cases will be reported.
	By who	Assigned technician by Plant Manager or assigned carbon consultant.

No		11
Indicator		Quantitative employment
Mitigation measure		No mitigation measures.
Chosen parameter		Number of local employment
Current situation of parameter		Agricultural related employment
Estimation of baseline situation of parameter		Continuation of baseline situation
Future target for parameter		More than 3
Way of monitoring	How	For number of local employment: social insurance registries and receipts of employees. After first verification, only changes in employees will be reported.
	When	Number of local employment: Annually
	By who	Assigned technician by Plant Manager or assigned carbon consultant.

No		12
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Indicator	Balance of payment: Money earned by locals	
Mitigation measure	Private lands to be utilized for the project activity will be compensated properly.	
Chosen parameter	Money earned by locals	
Current situation of parameter	No lands have been utilized and therefore no compensations are paid.	
Estimation of baseline situation of parameter	Continuation of baseline situation	
Future target for parameter	No applicable	
Way of monitoring	How	Purchase agreements and payment receipts to the land owners.
	When	Once during first verification
	By who	Assigned technician by Plant Manager or assigned carbon consultant.

No	13	
Indicator	Balance of payment and investments	
Mitigation measure	No mitigation measures are required.	
Chosen parameter	Amount of avoided natural gas to be imported	
Current situation of parameter	According to TEİAŞ; 21,637,605 thousand m ³ natural gas is consumed for electricity generation in 2008. In 2008 Electricity generation amount from natural gas is 98,685.3 GWh and share of natural gas in the electricity mix is 49.74%. Since Turkey imports 97% of consumed natural gas, it is calculated that for 1 GWh electricity generation 105,068 m ³ natural gas is imported in 2008 (which makes around 27,093 Euro/GWh = 105,093 m ³ x 0.515735 TL/ m ³ /2Euro).	
Estimation of baseline situation of parameter	According to the projections of TEİAŞ (See Table-5 in B.4 part of the PDD), dependency to natural gas for electricity generation will remain high till the end of 2018 with 42.7% share of the electricity mix in this year.	
Future target for parameter	Avoidance of around 1.254 million m ³ natural gas import each year by generation of project activity, which is worth about 1,516,125 Euro per year ¹⁵ .	
Way of monitoring	How	TEİAŞ statistics for natural gas share in the electricity mix shall help to demonstrate the high import dependency. Amount of electricity generated will be monitored to calculate correspondent amount of currency saved by project activity with help of above calculated factor.
	When	Annually
	By who	Assigned technician by Plant Manager or assigned carbon consultant.

Additional remarks monitoring

The name of the measuring technicians cannot be given as no employer is assigned yet by Plant Manager. Name of staffs and their responsibilities will be submitted to DOE during each verification period.

¹⁵ See TEİAŞ statistics for 2008: <http://www.teias.gov.tr/istatistik2008/index.htm>. Detail calculation of current situation and future target is substantiated in Monitoring Plan of CM Calculation Worksheet, which is available to DOE.

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SECTION H. Additionality and conservativeness



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

H.1. Additionality

Not Applicable.

H.2. Conservativeness

Not Applicable.



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ANNEX 1 ODA declaration

BAKTEPE ENERJİ A.Ş.

Date : 8 November 2010
Ref : Kayadüzü 40 MW Wind Power Project, Turkey (GS 950)

To: Gold Standard Foundation

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

BAKTEPE Enerji A.Ş.:

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

Abdullah TİVNIKLİ

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


I. Gold Standard Documentation

I am familiar with the provisions of Gold Standard Documentation relevant to Official Development Assistance (ODA). I understand that the above-referenced project is not eligible for Gold Standard registration if the project receives or benefits from Official Development Assistance under the condition that some or all credits coming out of the project are transferred to the ODA donor country. I now expressly declare that no financing provided in connection with the above-referenced project has come from or will come from ODA that has been or will be provided under the condition, whether express or implied, that any or all of the credits 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 : Abdullah TİVNIKLİ
Title : Vice President
On behalf of : BAKTEPE Enerji A.Ş.

İSMAIL FAHREDDİN
TİVNIKLİ
President

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