Gold Standard Passport

Cakirlar 17.00 MW Run-off River Hydro Power Plant

CONTENTS

SECTION A. Project Title

Cakirlar 17.00 MW Run-off-River Hydro Power Plant

ANADOLU ELEKTRİK ÜRETİM ve TİCARET A.Ş.(ANADOLU, hereafter) is in the phase of installing a runoff-river hydropower plant near Murgul creek in Artvin,Turkey. The purpose of the project is to generate electricity and to feed it into the public grid. Kiran HEPP 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

The subject project is not a grouped project. According to domestic regulations, with an installed capacity of 17.00 MW the Cakirlar HEPP is qualified as a small project.

Implementation of the project will consist of construction of the following main items:

- Four weirs, where water from the river is diverted into conveyance pipes;
- Total length of the conveyance pipes is 8,888 m.
- Power house with Pelton type turbines;

In the power house, two vertical shaft Pelton turbines will be installed, each 8.519 MW (total capacity 17.0 MW). The efficiency of the turbines is 90.5% when 4 jets are in operation. There are two generators attached to the facility. Generators have power factor of 0.8309 d/d, a frequency of 50 Hz and an output of 7.6 MVA.

The entire net electricity production is expected to be some 59,928 MWh per year.

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
	x	☐

Does your project activity classify as a Renewable Energy project?		
Does your project activity classify as an End-use Energy Efficiency Improvement project?	☐	x

Please specify your project type:

The project is a run-off river hydropower plant with an installed capacity less than 20 MW. The project activity is not implemented in an existing reservoir. It is a green field plant.

Pre Announcement	Yes	No
Was your project previously announced?	☐	x
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	☐

C.5. Project Registration Type

[See Toolkit 1.2.f]

Project Registration Type	
Regular	☐

Pre-feasibility assessment	Retro-active projects (T.2.5.1)	Preliminary evaluation (T.2.5.2)	Rejected by UNFCCC (T2.5.3)
	x	☐	☐

SECTION D. Unique project identification

D.1. GPS-coordinates of project location

[See Toolkit 1.6]

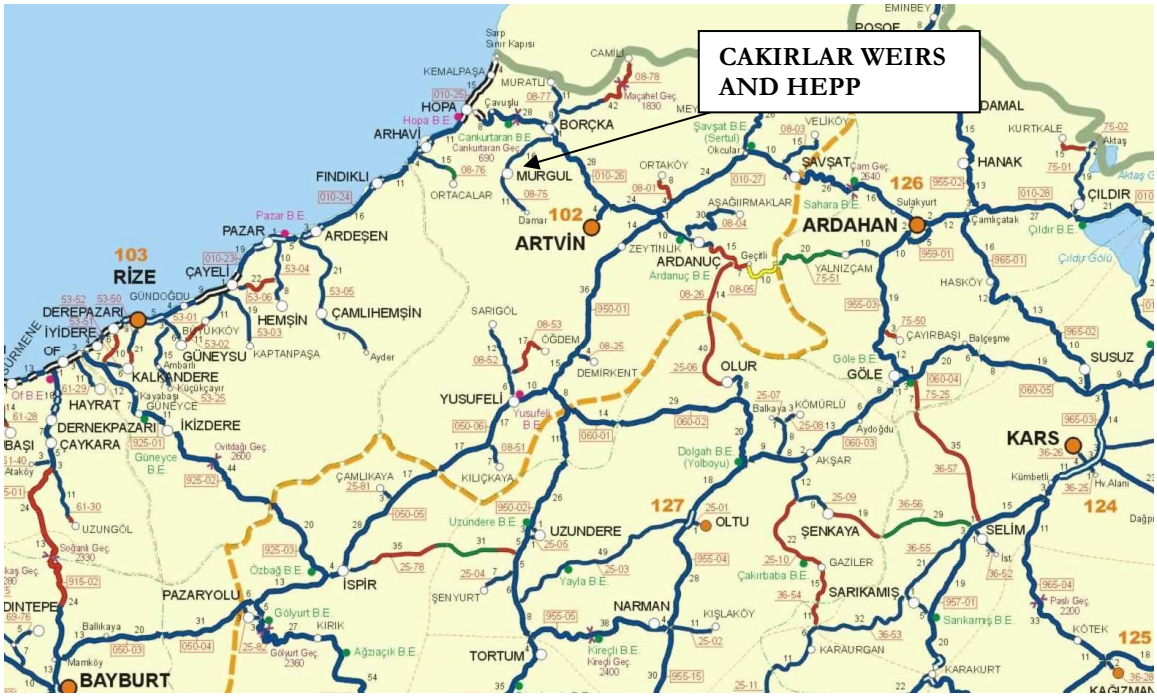
Cakirlar Project	**Coordinates**
Latitude	41º 08´ 21´´ - 41º 09´ 23´´
Longitude	41º 31´ 05´´ - 41º 33´ 54´´

Explain given coordinates

The given coordinates belong to the power house location of the plant.

D.2. Map

Project Location on Turkey Map



Project Photos:

Photo 1: Project Weir Construction

Photo 2 : Project Weir Construction

Photo 3: Project Powerhouse Construction

SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

As the project is subject to retroactive project cycle, no Local Stakeholder Consultation Meetings had been organised in line with Gold Standard requirements until the date of application to Gold Standard Foundation. However, although the domestic laws and regulations do not require any stakeholders' participation, both in the project planning and construction phase, the project owner managed to conduct various unofficial and unstructured stakeholder participation meetings. The feedback from the stakeholders was reflected on the project design and implementation. Also, a contact person from ANADOLU and relevant contact information was announced in the same meeting for ongoing communication.

The project owner used different channels to invite comments by stakeholders. Most of the meetings were held through the Mukhtar (village governors) and Council of Elderly (İhtiyar Heyeti; the village council) of Kabaca village, and the officials of Municipality of Murgul. Due to the fact that the apiculture represents an important source of income for Kabaca Village, the project owner that maintained very good communication and relationship with the villagers dealing with apiculture took

all necessary measures for the sustainability of the activity during the construction period. The project owner also visited various households in the project area to comprehend their needs and to identify how the project could assist in meeting the social and economic needs of the community.

The project owner agreed to donate some capacity in kind and in cash to aid the improvement of the infrastructure in the area. The list of aid and assistance is given below:

- The project owner donated some funds to the Municipality of Murgul , the nearest town to the project, to sponsor a local festival.
- The project owner provided financial support to Murgul Soccer Club.
- The project owner also has been providing financial support to the public schools in Murgul.
- The project owner donated some funds to the Kabaca village, the nearest village to the project, and also provided some construction materials to the village, for the construction of a new mosque.
- The project owner widened and rearranged the road between Kabaca, and Murgul in 2008.
- During the construction, 14 construction machines and equipment have been hired from Murgul and the vicinity of Murgul.
- Due to fact that apiculture represents an important economic activity for Kabaca village, the nearest village to the project, the watering the road between Murgul and the construction site has been secured by the project owner.
- The project owner has contributed to the local economy of Murgul by procuring the all needs of the construction site from local resources.
- In collaboration with the local office of General Directorate of Forestry, the project owner has considered the environmental concerns in order to make sure a sustainable construction which does not damage the environment. In that sense, the surrounding area of the construction site and the facility will be afforested before the commissioning of the project.

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]

The stakeholder feedback round will be organized in the upcoming weeks to apply to the comments of all stakeholders about the project implementation. The Passport, summary of the PDD, and other supporting documents will be available for all stakeholders for a period of at least two months. In addition, all the documents will be distributed to mukhtars to be discussed in their town hall meetings. Mukhtars will be consulted to assess the comprehension of information by public.

Also, the documents will be uploaded to a website and also at the registry, to allow all stakeholders to reach information about the project activity. What's more, the project documents prepared for the Feedback Round will be sent to the global stakeholders via e-mail to apply for their comments.

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
- ILO[1] 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.

[1] 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

Safeguarding principles	Description of relevance to my project	Assessment of my project risks breaching it (low/medium/high)	Mitigation measure
Human Rights			
1. The project respects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people. The project is not complicit in human Rights abuses.	Not relevant to the project. 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 Convention on Human Rights. Individuals have the right to apply the European Human Rights Court. [2]	n.a.	n.a.
2. The project does not involve and is not complicit in involuntary resettlement.	Not relevant to the project. There was not house in the project area, thus The project did not cause any resettlement. All land acquisition was executed in compliance with the Turkish Energy sector regulations as well as the Expropriation Law of Turkey. [3]	n.a.	n.a.
3. The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	Not relevant to the project, as there is no cultural heritage in the project area.[4]	n.a.	n.a.
Labour Standards			
4. The project respects the employees' freedom of association and their right to collective bargaining and is	Not relevant to the project, since being part of an association and collective bargaining is a legal right of all employees in Turkey.	n.a.	n.a.

[2] Source: http://tr.wikipedia.org/wiki/Avrupa_İnsan_Hakları_Sözleşmesi

[3] Revised Feasibility Study Dated February 2008 Section 7, Page 7.1

[4] Final EIA Report of Kayakopru HEPP, p.32

not complicit in restrictions of these freedoms and rights.	(ILO Convention 87 (freedom of association) and 98 (right to collective bargaining).		
5. The project does not involve and is not complicit in any form of forced or compulsory labour.	Not relevant to the project. (ILO Convention 29 and 105 on elimination of forced and compulsory labour.)		
6. The project does not employ and is not complicit in any form of child labour.	No child labour is employed in the project. Turkey has ratified ILO Convention 138 (minimum age) and Convention 182 (worst form of child labor)	n.a	n.a.
7. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	Not relevant to the project. Turkey has ratified ILO Convention 100 (equal remuneration) and Convention 111 (Discrimination in employment/occupation) under the ILO Declaration on Fundamental Principles and Rights at Work		
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 construction site in terms of occupational hazard and accidents.	High	The workers are trained in respect to the construction safety. Also, the project owner will follow necessary procedures for construction safety at international and standards. The company will provide a safe and healthy working environment in line with the Labour Law Legislation (number 4857) and Regulation

			on Occupational Health and Safety.
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.	Medium	The project owner will follow necessary procedures for environmental safety at the project site at international and national standards.
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 project owner guarantees to comply with the 'minimum water rule". The amount of minimum water to sustain the fauna, flora and the agriculture in the basin is estimated by the State Water Works (DSI). The minimum water is defined as at least 10% of the average water flow in the last decade.[5] Also, all the precautions defined in the feasibility study will be taken.
Anti-Corruption			
11. The project does not	No corruption exists in the	n.a.	n.a.

[5] http://www.dsi.gov.tr/ska/yonetmelik_tamami.htm

involve and is not complicit in corruption.	project. Turkey has ratified UN Convention against Corruption and the OECD Convention on Combating Bribery of Foreign Public Officials in International Business Transactions		

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 '+'***
1. Air quality	Run off river plants are zero emission projects. The emission from the projects is negligible. The project will reduce the emission of greenhouse gases generated by the National Grid. The	**GOAL 7 Ensure Environmental Sustainability** **Target 1:** Integrate the principles of sustainable development into country policies and programs, and reverse the loss of environmental resources.	**Parameter 1:** Greenhouse gas emission reduction caused by the project (tCO2) The Cakirlar HEPP produces electricity from hydropower and does not result in any emissions. Therefore, the project leads to positive impact on ait quality.	+

	reduction is estimated to be around 36,796 tons CO2 per year.			
2.Water quality and quantity	The project will be constructed under ISO 14001. The project owner guarantees to comply with the 'minimum water rule". The amount of minimum water to sustain the fauna, flora and the agriculture in the basin is estimated by the State Water Works (DSI) In addition, the project owner donates resources in cash and in kind to improve water supply and sanitation in the project district. As discussed in	**GOAL 7 Ensure Environmental Sustainability** **Target 1:** Integrate the principles of sustainable development into country policies and programs, and reverse the loss of environmental resources.	**Parameter 2:** Water Flow between the regulator and the tail race (m3/sec) The quantity of the water will be tracked by the minimum water rule which is defined by DSI. The data will be collected from the measurement devices which will be deployed by the project owner. The minimum water is defined as at least 10% of the average water flow in the last decade.[6] As run-off river hydropower technology	o

[6] http://www.dsi.gov.tr/ska/yonetmelik_tamami.htm

	the unofficial stakeholder meetings, the local government requested construction equipment to replace the drinking pipes in the region.		does not have negative impact on water quality and the reservoir area of the project is very small, no negative impact on the water quality is expected as a result of the project activity.	
3.Soil condition	The project owner pursues a detailed landscaping plan for the excavation work to control soil erosion. The project owner is committed to minimize deforestation and commit to reforestation.	**GOAL 7 Ensure Environmental Sustainability** **Target 2:** Reduce biodiversity loss, achieving a significant reduction in the rate of loss.	**Parameter 3:** Effectiveness of landscaping plan and compliance with procedures under ISO 14001.	0
4.Other pollutants	No pollutant is expected during construction and operation. The project owner is committed to monitor noise level under ISO 18001.	**GOAL 7 Ensure Environmental Sustainability** **Target 1:** Integrate the principles of sustainable development into country policies and programs, and	**Parameter 4:** Compliance with "Assessment and Management of Environmental Noise Regulation (Dated: 07.03.2008,	0

		reverse the loss of environmental resources.	Number: 26809)"[7] Number of complaints about the noise resulting from the project activities There is no settlement close to the project site. Therefore, during the construction phase, the noise level at residential area is expected to be much lower than the allowed limits.	
5.Biodiversity	The project pursues a preliminary EIA that already eliminated the presence of significant risks from the project. The project will be constructed under ISO 18001 and 14001 The project owner guarantees to comply with the 'minimum water rule".	**GOAL 7** **Ensure Environmental Sustainability** **Target 2:** Reduce biodiversity loss, achieving a significant reduction in the rate of loss.	**Parameter 5:** Construction of a fish pass A functioning fish pass is added to design of the facility.	0

[7] "Çevresel Gürültünün Değerlendirilmesi ve Yönetimi Yönetmeliği", Madde 23. (07.03.2008 Tarih ve 26809 Sayılı Resmi Gazete)

	The amount of minimum water to sustain the fauna, flora and the agriculture in the basin is estimated by the State Water Works (DSI) Also the company will construct a fish pass in the weir of the plant to allow fish migration.			
6.Quality of employment	The project owner will follow necessary procedures for construction safety at international standards. (OHSAS and ISO 18001) The project will train all employees on health and safety. The project owner is willing to ensure safety at the site and is committed to	**GOAL 1** **Eradicate extreme poverty and hunger** **Target 2:** Achieve full and productive employment and decent work for all, including women and young people.	**Parameter 6:** Number of employees to be trained for the construction and operation of the plant There will be on the job vocational training for those who does not have specific construction experience.	+

	prioritize local labour force in selecting construction workers.			
7.Livelihood of the poor	The project owner is committed to various projects with significant socio economic benefits. Some of these projects are, but not limited to:The project owner donated some funds to the Municipality of Murgul , the nearest town to the project, to sponsor a local festival. The project owner also provided financial support to the public schools in Murgul.The project owner widened and rearranged the road between Kabaca, and Murgul in	**GOAL 1** **Eradicate extreme poverty and hunger** **Target 2:** Achieve full and productive employment and decent work for all, including women and young people.	**Parameter 7:** Number of social projects and amount of financial aid to projects.	+

	2008. During the construction, 14 construction machines and equipment have been hired from Murgul and the vicinity of Murgul. Due to fact that apiculture represents an important economic activity for Kabaca village, the nearest village to the project, the watering the road between Murgul and the construction site has been secured by the project owner.			
8.Access to affordable and clean energy services	Provide clean energy to the national grid of Turkey.	**GOAL 7** Ensure Environmental sustainability **Target 2:** Integrate the principles of sustainable development into country policies and programmes and	**Parameter 8:** Electricity supplied from Cakirlar to the national grid of Turkey. (kwh)	+

		reverse the loss of environmental resources		
9.Human and institutional capacity	The project owner is willing to improve the human and institutional capacity by providing financial aid and contributions in kind to the local people and institutions	**GOAL 1: Eradicate Extreme Poverty and Hunger**	**Parameter 9.1:** Number of social projects and amount of financial aid to projects.	+
10.Quantitative employment and income generation	The project owner is committed to prioritize local labour force in selecting construction workers as well as hiring during operation.	**GOAL 1 Eradicate extreme poverty and hunger** **Target 2:** Achieve full and productive employment and decent work for all, including women and young people.	**Parameter 10:** Number of local employees and its ratio to the unemployment number in the region	+
11.Balance of payments and investment	The company makes a huge amount of investment in the region and as a result saves net foreign currency by replacing renewable energy in place of electricity generation from	**GOAL 8 Develop a global partnership for development** **Target 2:** Develop further an open, rule based, predictable, non-discriminatory trading and financial system **Target 3:** Deal comprehensively with developing countries' debt	**Parameter 11.1:** Net foreign currency savings resulting from a fossil fuel imports. The project will decrease the fossil fuel imported and result in net foreign currency	+

	imported fossil fuels.		savings. **Paremeter 11.2:** The amount of investment made into the region, as a result of the project activity.	
12.Technology transfer and technological self-reliance	Training of technicians and engineers for turbine operation and maintenance. In addition, the import of equipment such as turbines and side equipment will provide technology transfer.	**GOAL 8 Develop a global partnership for development** **Target 5:** In cooperation with the private sector, make available benefits of new technologies, especially information and communications.	**Parameter 12.1:** Number of technicians and engineers trained for the operation of the plant **Parameter 12.2:** Name and Brand of the technology transferred	+

Justification choices, data source and provision of references

1.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
2.Water quality and quantity	The project will maintain a minimum water flow of at least 10% of the average water flow of last decades. (http://www.dsi.gov.tr/ska/yonetmelik_tamami.htm),***(Kiran Technical Evaluation Report, 17 March 2009)***
3.Soil condition	The Project Developer will replace the trees cut during the construction of the Project.
4.Other pollutants	During operation, given that the turbines will be installed in a closed powerhouse building, The noise level outside the powerhouse will therefore not go beyond the allowable levels for industrial plants as set in Article 22 of the Environmental Noise Regulation of Turkey i.e. not beyond the background noise level by more than 7-10dBA (equivalent to 85dBA considering a 75dBA background level). ***(Kiran Technical Evaluation Report, 17 March 2009)***
5.Biodiversity	The project is not located in an area that is (a) legally protected, (b) officially proposed for protection, (c) identified by authoritative sources for high

	conservation value, or (d) recognized as protected by traditional local communities.
6.Quality of employment	The Project Developer is committed to apply OHSAS. Annual OHSAS and ISO 18001 reports will be obtained. The records of trainings provided to the plant staff will be monitored.
7.Livelihood of the poor	The financial and capacity building from the project owner to the local communities is recorded for cost accounting measures.
8.Access to affordable and clean energy services	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
9.Human and institutional capacity	The financial and capacity building from the project owner to the local communities is recorded for cost accounting measures.
10.Quantitative employment and income generation	The number of local employees its ratio to the unemployment number in the region is recorded.
11.Balance of payments and investment	Greenhouse gas emission reduction caused by the project (tCO2) is around 36,796 tons as will be estimated through baseline methodology for the PDD.
12.Technology transfer and technological self-reliance	The turbines are French made and supplied by Vatech Bouvier Hydro SAS which is a France based company. Such agreement strengthens technology transfer to Turkey.

SECTION G. Sustainability Monitoring Plan

[See Toolkit 2.4.3 and Toolkit Annex I]

Copy Table for each indicator

No		1
Indicator		Air Quality
Mitigation measure		Run off river plants are zero emission projects. The emission from the projects is negligible. The project will reduce the emission of greenhouse gases generated by the National Grid. The reduction is estimated to be around 36,796 tons CO2 per year.
Chosen parameter		Greenhouse gas emission reduction caused by the project (tCO2)
Current situation of parameter		Turkey's grid is mainly depends on fossil fuel fired power plants. CO2 Emission from Electricity Production (Announced By Turkish Statistical Institute) is 100.661.511 tonnes for year 2007. Also, the Emission factor is 0,614 tCO2e / MWh.
Future target for parameter		The project will generate 59,928 MWh per annum and will result in 36,796 tCO2 emission reductions annually.
Way of monitoring	How	The electricity production figure is will be multiplied with the calculated EF value of Turkey.
	When	Yearly / TEIAS Monthly Invoices
	By who	Project Developer / Verifier

No		2
Indicator		Water Quality and Quantity
Mitigation measure		The project will be constructed under ISO 14001. But the continuity of the conditions from the preliminary EIA will be followed closely. The project owner guarantees to comply with the 'minimum water rule". The amount of minimum water to sustain the fauna, flora and the agriculture in the basin is estimated by the State Water Works (DSI) In addition, the project owner donates resources in cash and in kind to improve water supply and sanitation in the project district. As discussed in the unofficial stakeholder meetings, the local government requested construction equipment to replace the drinking pipes in the region.
Chosen parameter (2.1.)		Water Flow between the regulator and the tail race (lt/sec)
Current situation of parameter		1,685 m3/s. (annual average total for four weirs)
Future target for parameter		40 lt/sec. (0,04 m3/s) (Minimum water which is defined by DSI)
Way of monitoring	How	Monitored with the river observation station placed to the river bed.
	When	Continuous Measurement
	By who	DSI (State Hydraulic Works)

No	6
Indicator	Quality of employment
Mitigation measure	The project owner will follow necessary procedures for construction safety at international standards. (OHSAS and ISO 18001) The project will train all employees on health and safety. 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		Number of employees to be trained for the construction and operation of the plant.
Current situation of parameter (6)		N/A
Future target for parameter		Especially technical personnel will be trained for the operation of the plant. Also, all the workers will be trained on health and safety
Way of monitoring	How	Training records and interview with the employees
	When	During the first verification
	By who	Project developer / Verifier

No		8
Indicator		Access to affordable and clean energy technologies
Mitigation measure		Provide clean energy to the national grid of Turkey
Chosen parameter		Electricity supplied from Cakirlar to the national grid of Turkey. (kwh)
Current situation of parameter (8)		N/A
Future target for parameter		59,928,000 kWh/year
Way of monitoring	How	Monthly invoices
	When	During the verification
	By who	Project owner/Project developer / Verifier

No		9
Indicator		Human and Institutional Capacity
Mitigation measure		The project owner is willing to improve the human and institutional capacity by providing financial aid and contributions in kind to the local people and institutions.
Chosen parameter		Number of social projects and amount of financial aid to projects.
Current situation of parameter		N/A
Future target for parameter		The project owner has been providing some financial aids and some contributions in kind to the public institutions in the region. The company is willing to provide contributions to the local people and institution as much as possible.
Way of monitoring	How	The bills of the financial aids will be reviewed and interviews will be made with the authorised people from the related local institutions.
	When	During the first verification
	By who	Project developer / verifier

No		10
Indicator		Quantitative Employment and Income Generation
Mitigation measure		The project owner is committed to prioritize local labour force in selecting construction workers as well as hiring during operation.
Chosen parameter		Number of local employees and its ratio to the unemployment number of in the region
Current situation of parameter		N/A
Future target for parameter		The company is planning to hire 200 workers for the construction and 13 workers for the operation of the power plant. People in the region will be

		given priority in employment.
Way of monitoring	How	Via SGK (Social Security Institution) Records of the company
	When	During first verification
	By who	Project Developer / Verifier

No		11
Indicator		Balance of Payments and Investment
Mitigation measure		The company makes a huge amount of investment in the region and as a result saves net foreign currency by replacing renewable energy in place of electricity generation from imported fossil fuels.
Chosen parameter (11.1.)		Net foreign currency savings resulting from a fossil fuel imports.
Current situation of parameter		Turkey's national electricity grid is mainly depends on fossil fuel fired power plants. The electricity production figures of thermal plants and the fossil fuels amount consumed in these plants are available on TEIAS website.: http://www.teias.gov.tr/ist2007/36(06-07).xls http://www.teias.gov.tr/ist2007/43.xls
Future target for parameter		The project will decrease imported fossil fuel dependency of Turkey and will result in foreign currency savings every year depending on its electricity production figures.
Way of monitoring	How	The currency savings will be calculated based on the fossil fuel consumption amount of Turkey and electricity production figure of the plant.
	When	Yearly
	By who	Project developer / Verifier
Chosen parameter (11.2.)		The amount of investment made into the region, as a result of the project activity.
Current situation of parameter		N/A
Future target for parameter		Total investment amount is expected to be some 28 mn. EURO.
Way of monitoring	How	The company accounts related to the investment costs will be checked
	When	During the first Verification of the project
	By who	Company Accountant / Project Developer / Verifier

No		12
Indicator		Technology transfer and technological self-reliance
Mitigation measure		Training of technicians and engineers for turbine operation and maintenance. In addition, the import of equipment such as turbines and side equipment will provide technology transfer.
Chosen parameter (12.1.)		Number of technicians and engineers trained for the operation of the plant
Current situation of parameter		N/A
Future target for parameter		According to the electromechanical equipment agreement, the plant staff will be trained by the supplier company
Way of monitoring	How	Via electromechanical equipment agreement, training records and interviews with the plant staff
	When	During the first Verification of the project
	By who	Project Developer / Verifier

Chosen parameter (12.2.)		Name and brand of the technology transferred
Current situation of parameter		No turbine technology exists in the country
Future target for parameter		Pelton type two turbines with vertical axis will be imported from Vatech Bouvier Hydro SAS company from France.
Way of monitoring	How	Equipment will be seen on site
	When	The electromechanical equipments will be seen in the site visit of the first verification
	By who	Project Developer / Verifier

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

The additionality of the project is discussed in detail in PDD. Please see section 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 small-scale project activity" 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 small-scale project activity

ANNEX 1 ODA declarations

TO BE ADDED

Main sponsors

firstclimate

climatecare

TFS Green
Part of Tradition

TRICORONA

one carbon

Supporting Sponsors

essent

WWF

south pole

myclimate
Protect our planet

BNP PARIBAS

Developers Gold Standard version two

ECOFYS

TÜV SÜD
Industrie Service

FIELD
Foundation for International Environmental Law and Development