

GOLD STANDARD PASSPORT

GOLD STANDARD PASSPORT

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SECTION A. Project Title

ZALA HEPP - Turkey

SECTION B. Project description

Zala HEPP project will be developed by Ahmet Hakan Elektrik Üretim A.Ş (Ahmet Hakan Electricity Production INC.) at Kastamonu Province, Araç District, at the Blacksea Region. Within the scope of the project, Zala Weir will be constructed on Araç Creek and linked to Zala power house with an installed capacity of 5.184 MWe.¹

Based on annual total electricity generation amount, 18,606 MWh, Zala HEPP project will result in a CO_{2-eq} reduction of 10,246 tons annually due to use of renewable resources. The commissioning date is expected on 01/07/2013. The Ahmet Hakan Elektrik Üretim A.Ş was expected to be financially feasible by means of issuing obtained VERs by project activity.

The only purpose of the proposed project is to produce energy. The generated electricity will be connected to national interconnected system for public welfare.

A weir (auxiliary units: water intake structure, scouring sluice, sedimentation basin, fish passage), derivation structure, transmission channel, head pond, penstock and a power house are the units of the proposed project.

Within the project activity, the water taken by virtue of Zala Weir (water intake structure) will be conveyed to the head pond channel to avoid flow fluctuations through the transmission and then conveyed to the power house by means of the penstock. A derivation structure will be established on Cevizlik Creek which is a small tributary of Araç Creek. By means of derivation structure, a portion of the flow of Cevizlik Creek will be diverted to transmission channel in order to support the coming flow to turbines. The turbines convert the potential energy of water to mechanical energy. Then, the turbines turn up the generator and the generator produce electrical energy by converting the mechanical energy to electrical energy; the water passed from the turbines in the power house will be released back to Araç Creek without any alteration to its quality and quantity.

An assessment was conducted within the scope of EIA² to identify the impact of noise observed from the construction activities as per "The Regulation on The Assessment and Management of Ambient Noise" which defines the limit value for construction activity as 70 dBA³. The noise pressure levels of selected construction areas (ie: weir area, transmission channel area, power house area) were calculated by using the noise levels of to be used heavy vehicles⁴ during construction. The noise levels of the specific construction areas were detected lower than the limit value with respect to the distance in between.

For construction phase; an assessment was conducted within the scope of EIA⁵ to identify the amount of to be formed PM and dust. The limit values of PM and dust were specified as per the "Regulation on the Control of Industrial Air Pollution" and "Regulation on the Assessment and Management of Air Quality" as for short term: 140

¹ Zala HEPP, EIA Report

² Zala HEPP, EIA Report, Section V.1.15 and Annex 16

³ decibel A-weighting, an environmental noise measurement

⁴ Due to the nature of the assessment, it was assumed that, all heavy vehicles will be used at the same time. However, it is not possible in reality. Hence, the real noise level will be lower than the calculated ones.

⁵ Zala HEPP, EIA Report, section V.1.8 and Annex 15

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$\mu\text{g}/\text{m}^3$ and $390 \text{ mg}/\text{m}^2/\text{day}$ and for long term: $78 \mu\text{g}/\text{m}^3$ and $210 \text{ mg}/\text{m}^2/\text{day}$ respectively for the year 2013.⁶

It is concluded that, the expected and calculated PM and dust formation will not exceed the regulated limit values.

In addition to that for mitigate the formation of dust and PM⁷;

- Care to emptying/fulfilling of trucks without blowing about,
- Speed restrictions to heavy vehicles,
- Spraying activities of roads during construction

No explosive material will be used up during construction or operation phases of project activity.⁸

Another assessment regarding amount of excavated soil was conducted in the EIA⁹. The excavation will be stored temporarily at the formerly specified and permitted storage area.¹⁰ The excavation and top soil will be stored separately at those areas. Then, the excavation will be reused for landfilling, backfilling, road repair and service road building purposes.

It was indicated that, the 20% of the excavated material will be topsoil (vegetable soil) and stored topsoil will be reused for landscaping and reclamation purposes. The residual excavation (if any) will be disposed to solid waste disposal site by the permission of Araç Municipality.¹¹

The excavation shall not be poured to river bed, which is strictly forbidden by laws. The project activity will be complied with the "Regulation on the Control of Excavation, Construction and Ruins Waste".¹²

The completion time of the project -total construction time- will be nearly 2 years¹³.

The expected operational lifetime of the project is estimated at about 46 years 3 months 11 days.¹⁴

Small HEPP projects are among the projects with minimal impact on environment and local people. No environmentally harmful emission is anticipated. All regulations regarding the protection of air quality will be followed during the construction. Any solid and liquid wastes formed during the construction and operation of the plant will be collected and discharged in accordance with the "Regulations on the Control of Solid Wastes" and "Regulation on the Control of Water Pollution".¹⁵

Furthermore, along the transmission channel, some bridges will be constructed to maintain the access of local people and other ecosystem components. All precautions will be provided for protection. During the construction, the transportation shall not be disrupted. In case of any damage to the existing roads or infrastructure despite of the precautions and mitigation measures, the damaged roads will be repaired and damage to infrastructure will be covered by the project owner.

The generated electricity will be connected to national interconnected system by Araç Transformer Station.¹⁶

The specified amount of flow shall and will be released from weir structure for sustainability. The ecological flow amount and water rights of downstream users are the key concerns, releasing of those after weir structure

⁶ The specified limit values in the regulation have a descending order for the subsequent years: 2008-2014 as transition period.

⁷ Zala HEPP, EIA Report, page 127

⁸ Zala HEPP, EIA Report, page 100

⁹ Zala HEPP, EIA Report, section V.1.1 and page 128,129

¹⁰ Zala HEPP, EIA Report, page 120

¹¹ Zala HEPP, EIA Report, page 99

¹² Zala HEPP, EIA Report, page 100

¹³ Zala HEPP, EIA Report, page 25

¹⁴ See PDD Section C.1.2 for detailed information

¹⁵ Zala HEPP, EIA Report, page 160,161

¹⁶ Zala HEPP, EIA Report, page 2

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preserve the ecological life/habitat and provide concord with downstream users and stakeholders respectively. The released water to creek will be continuously measured by an online flow meter at where it is positioned by the 23rd Regional Directorate of DSI¹⁷ and in conjunction with online system of the DSI.¹⁸

Furthermore, for the project activity, the minimum flow shall also be provided from the derivation structure to Cevizlik Creek.

Table 1: The Amount of Minimum (Ecological) Flow Released After Weir Structure during Wet and Dry Seasons¹⁹

Months	Minimum (ecological) flow	
	Zala Weir	Derivation Structure
January	330 l/sec	350 l/sec
February	330 l/sec	350 l/sec
March	1043 l/sec	1100 l/sec
April	1043 l/sec	1100 l/sec
May	1043 l/sec	1100 l/sec
June	330 l/sec	350 l/sec
July	330 l/sec	350 l/sec
August	330 l/sec	350 l/sec
September	330 l/sec	350 l/sec
October	330 l/sec	350 l/sec
November	330 l/sec	350 l/sec
December	330 l/sec	330 l/sec

The quantity of downstream users' water rights was determined within the scope of EIA. The **Downstream Users' Water Rights Report²⁰** was conducted and specified the water amount that have been using for irrigational purposes, for wells, watermills, or for drinking purposes between the weir and the power house. As per the report, the irrigation area for agriculture between weir and power house is 219.3 ha. Those areas have been irrigated by Kastamonu-Araç 17 Village Irrigation Facility and Araç-Akıncılar-Cevizli-Tatlıca Villages Irrigation Facility. For this reason, an additional amount of irrigation water to be released to river bed is not required.²¹

An assessment was conducted by Black Sea Technical University in order to specify the off-legal wells which mean that they were not opened by DSI or any authority. Therefore, the reliable and safe drawing amounts are not known. The University assessed the site, topographic, water level and etc. to investigate in what degree the project activity will affect the water wells. The assessment concludes that the underground water level increases from the water level of river towards the slopes and the lowest underground level is detected at the connection points of river and underground water level and finally in all cases the underground water feeds the Araç Creek. Therefore, any problem on the decrease of water level of wells is not foreseen directly. In this respect, any amount of flow for well will not left from weir structure to creek.

¹⁷ The State Hydraulic Works

¹⁸ Zala HEPP, EIA Report, page 139

¹⁹ Zala HEPP, EIA Report, page 137,138

²⁰ Zala HEPP, EIA Report, Annex 20

²¹ Zala HEPP, EIA Report, page 139

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The project owner committed to take all precautions against the problems by reason of the decrease of water level in wells.²²

Zala HEPP project was designed without a reservoir. The backwater formed by the way of weir structure is for regulation of coming flow. The area of backwater before the Zala Weir will be 2,000 m².²³

The vegetation will be disrupted because of the construction of units. The vegetation at the area is distributed broadly in Turkey. Hence, the disruption can be accepted as tolerable. The mitigation measures will be performed to provide the least disturbance to the vegetation, floral and faunal species and environment.²⁴

An endemic species were not determined based on the on-site surveys and studies during the preparation of EIA.²⁵ The risk is neither for fauna nor for floral species. In order to stimulate the natural flow regime and sustain the fish living, fish passages under the weir structure will be constructed.²⁶ Besides, fish migration is provided by fish passage²⁷ which is designed properly to provide the transition of fishes.

A *Social Impact Assessment Report*²⁸ was conducted by an expert in order to identify the social impacts can be occurred based on the proposed project. The main point of this report was about the concern of local people on reduction in the water flow of Araç Creek. The importance of the water utilization rights was expressed. With respect to the report, the proposed project cause a decrease in the flow of Araç Creek and which may affect the agricultural activities. To sustain the agricultural activities and avoid considering it as a threat by local people, the specified amount of water should be released from weir structure. Moreover, as mentioned above, in July and August, the water will not transmitted to operate the power house. Therefore, the concerns of local people are taken off.

The preference of using the labour force from the vicinity may be helpful to procure acceptance of proposed project.²⁹

Start date of construction: 23/09/2011 – construction works contract

²² Zala HEPP, EIA Report, page 138

²³ Zala HEPP, EIA Report, page 136

²⁴ Zala HEPP, EIA Report, gage 89

²⁵ Zala HEPP, EIA Report, section IV.2.11, page 79, 80, 89

²⁶ Zala HEPP, EIA Report, page 132

²⁷ Zala HEPP, EIA Report, page 137

²⁸ Zala HEPP, EIA, Annex 18

²⁹ Zala HEPP, EIA Report, section V.3.1

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Figure 1: The location of Zala weir structure on Araç Creek, a view from upstream to downstream

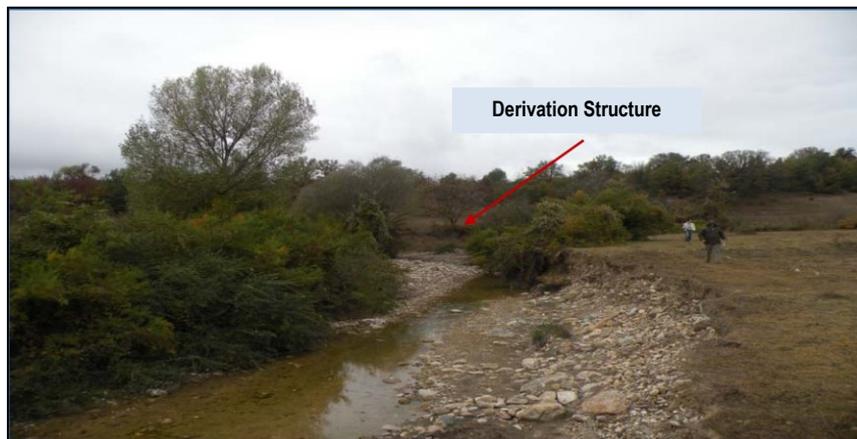


Figure 2 : The location of the derivation structure on Cevizlidere Creek



Figure 3 : The downstream of weir structure and route of transmission channel

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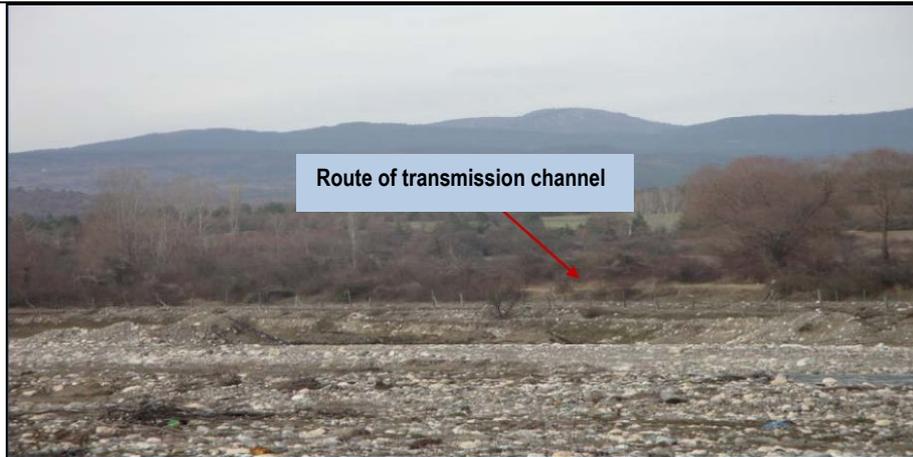


Figure 4 : The route of transmission channel



Figure 5 : The location of the forebay on the project site



Figure 6 : A locations of the power house

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

C.2. Host Country

Turkey
The host country Turkey does not have a cap on its 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"/>	x

According to the latest Gold Standard VER Manual for Project Developers, the project falls into the type A.1. - Renewable Energy. The aim of the project is to produce energy as well as to build and operate a hydroelectric electric power plant.

As per Annex C of Gold Standard Toolkit, the project activities which involves hydropower plants with an installed capacity less than or equal to 20 MWe shall be eligible. The proposed project is eligible owing to justify the statement above with 5.184 MWe installed capacity.

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The Table C-2 of Annex C is discussed below regarding the proposed project characteristics.

Management Domain	<p>Minimum Flow Goal is a dynamic flow regime, which qualitatively simulates the natural hydrological regime</p>	<p>Minimum flow goal for Zala weir is 1043 l/sec for March, April, May and 330 l/sec for all other months to simulate the downstream natural hydrological regime. And Minimum flow goal for derivation structure is 1100 l/sec for March, April, May and 350 l/sec for all other months. ³⁰</p> <p>The long average flow, water volume, hydrology, annual alteration within year, optimum habitat of fishes, biological characteristics of river bed, seasonal flow conditions, ecological situation of living organisms and all relevant components of river system will be measured to determine the minimum flow. The Tennant method was used for estimation of minimum flow.</p> <p>In case of a reduction of water flow below the amount of minimum flow due to seasonal conditions, the diversion of flow hence, electricity generation of HEPP is not allowed.</p>
	<p>Minimum flow which guarantees habitat quality and prevents critical oxygen and chemical concentrations</p>	<p>The minimum flow which guarantees the habitat quality and preserve oxygen and chemical concentration was defined by the experts prepared the Feasibility Study Report.</p> <p>Minimum flow goal for Zala weir is 1043 l/sec for March, April, May and 330 l/sec and minimum flow goal for derivation structure is 1100 l/sec for March, April, May and 350 l/sec for all other months. ³¹</p> <p>In case of a reduction of water flow below the amount of minimum flow due to seasonal conditions, the diversion of flow hence, electricity generation of HEPP is not allowed</p>
	<p>No disconnection of lateral rivers</p>	<p>There is no disconnection of lateral rivers in the project. The lateral rivers contribute to the natural hydrological regime of the water bed between weir and power house. The lateral rivers provide a flow amount which is added to the minimum flow between weir and power house. Hence, the sustainability will be supported.</p>
	<p>Minimum water depth for fish migration during critical periods</p>	<p>The minimum flow was estimated for months with respect to the ecosystem components and natural flow regime. One of the ecosystem components are fishes which migrates can easily live in the water depth provided by minimum flow.</p>
	<p>Lateral and vertical connectivity (flood plains and groundwater) shall not be substantially disturbed</p>	<p>The lateral connectivity will resume by fish passage which designed and constructed efficiently. For vertical connectivity, an assessment of Black East University concludes that the ground water level is increase from river water level towards slopes hence the groundwater level will not affected which can be observed from the water level of wells. The lateral and vertical connectivity will not be affected because of the proposed project. Moreover, field survey and feasibility of the project is able to prevent such disturbance to nature. The vertical connectivity is not affected due to proposed project since; there will be no disturbance to vertical linkages with groundwater. The sedimentation will not be permitted, in front of weir structure, the passing of silt to downstream will be provided by the help of scouring sluices. The energy and material are transferred in the hyporheic zone and which ecosystem services are thus provided. In accordance with the diversion of flow to transmission channel and reduction in the Araç Creek's flow, the underground water table may be decreased. However, the hydrology of the project site will not cause this kind of reduction because of the tributaries of river which continues to feed the water table and it result in maintaining the sufficient hydrology with minimum change.</p> <p>The lateral connectivity will be maintained by not disturbing the floodplain as much as possible. The sliding of river side - erosion- into the bed will be prohibited carefully and no levee</p>

³⁰ Zala HEPP, EIA Report, page 137,138

³¹ Zala HEPP, EIA Report, page 137,138

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		construction will be performed which are the main causes of avoiding lateral connectivity. The fish passage enables lateral connectivity as well. All kind of mitigation measures will be performed to mitigate functional losses associated with isolation and an altered hydrograph
	Provides sufficient transport capacity for sediments	The weir structure has 7 gates and one of the gates will be used for sediment transportation as scouring sluice to avoid accumulation of sediment in the pond. ³²
	Landscape compartments shall not be destroyed	The vegetation soil will be peeled off during the construction. The excavated soil during construction will be stored at the designated areas. The compression will be done to fasten up the excavation. To protect the soil structure, the excavated soil will be used for filling up purposes and for landscaping. ³³
	Flood plain ecosystems shall not be endangered	The Flood plain ecosystems will not be endangered by protecting the water bed from excavation. All kind of precautions and measures will be performed to protect the ecosystem. ³⁴
	Conservation of locally adapted species and ecosystems	The conversion of lotic habitat to lentic ecosystem will be observed into the still water areas which are formed because of the project. The locally adapted species and ecosystems will not be affected by the project. ³⁵
Hydro peaking	Rate of change of water level should not impair fish and benthic populations	The minimum flow will be released to river bed during critical periods and this will be monitored by state authorities. Therefore, there shall not be any significant change in water level which can cause impair of fish and benthic populations
	Reduction in water level should not lead to drying of the water course.	In the scope of the project, storage of significant volume of water is not present. The coming water to plant will be released after the power house with the same quality and quantity. Hence, there will be no reduction in water levels.
	Protective measures if flood plain ecosystems are impaired.	Protective measure will be taken to reduce the adverse impacts of any flood plain which is not expected due to topography of the region. Moreover, the project has no dam or reservoir and is not expected to have an impact on flood plain ecosystem.
	No isolation of fish and benthic organisms when water level decreases	The weir will prevent the isolation of fish and organisms by providing a steady minimal flow, even when water level decreases.
	No impairment of spawning habitat for fish	The fish passage will be constructed under weir to permit fish migration to upstream for spawning issues. Minimum water flow will be maintained during spawning periods as well.
Reservoir management	Are there feasible alternatives to reservoir flushing?	Since the project does not feature any storage volume, unlike the dam reservoirs, a reservoir operation policy cannot be applied to this project.
	Changes in reservoir levels should not impair lateral ecosystems (flood plains, river shores, ...)	Since the project does not feature any storage volume, unlike the dam reservoirs, a reservoir operation policy cannot be applied to this project.
	Connectivity with lateral rivers should not be impaired	Since the project does not feature any storage volume, unlike the dam reservoirs, a reservoir operation policy cannot be applied to this project.
	Sediment accumulation areas should be used as valuable habitats, where feasible.	No significant accumulation is expected.
	Special protection of flood plain ecosystems if they are impaired	The project is not expected to have an impact on flood plain ecosystem.
Sediment Management	Sediments have to pass through the power plant.	The weir structure has 7 gates and one of the gates will be used for sediment transportation as scouring sluice to avoid accumulation of sediment in the pond. ³⁶

³² Zala HEPP, EIA Report, page 132

³³ Zala HEPP, EIA Report, section V.1.1 and page 128,129

³⁴ Zala HEPP, EIA Report, page 100

³⁵ Zala HEPP, EIA Report, page 89

³⁶ Zala HEPP, EIA Report, page 132

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	No erosion and no accumulation in the river bed below storage dams and water intakes because of a deficit in sediments.	The project does not constitute any storage volume.
	Sediment transport should sustain morphological structures, which are typical for the river.	A gate on weir will be used for sediment transportation to protect the morphological structure and existing habitat.
	No accumulation of sediments below dams	The project does not constitute any storage volume.
	Riverine habitats have to be established.	Riverine habitats will not be impacted by the project across the downstream and upstream and interior of the river bed. The protective measures will be taken to minimize the negative effects at the area.
Power plant design	Protection of animals against injury and death stemming from power plant operations (turbines, canals, water intakes, ...)	All conveyance channels will be protected to prevent injuries. The power house including turbines and other equipment is closed.
	Free fish migration upwards and downwards (as far as technologically feasible)	The fish passage will be constructed under weir to permit fish migration to upstream for spawning issues. Minimum water flow will be maintained during spawning periods as well.
Social impacts	Cultural landscapes	Cultural Landscapes will not be affected by the project activity since the place of the project is not in a protection area or historical site.
	Human heritage (including protection of special ethnic groups)	There will not be any social impact on human heritage and way of life. Furthermore, it will help the locals by providing additional employment.
	Preservation of lifestyles	There will not be any disturbance on human heritage and way of life since the power plant is not close to the settlement area.
	Empowerment of local stakeholders in the decision-making process (about mitigation and compensation of social impacts)	Local stakeholders will be able to express their opinions about social impacts at stakeholders meetings whereby the project owners would take the proper mitigation measures. They are encouraged to participate in project phases and free to ask questions and discuss their opinions with the project owner.
	Resettlement of local population under similar or better living conditions (than prior to the project)	There will not be any resettlement due to project activities.
	Build additional social infrastructure, sufficient to cope with population increase (due to migration induced by the project)	The project will not induce any migration.
	Water quality and fishing losses affecting downstream riverside population	The downstream water quality will not be affected since within the scope of the project, water will be released continuously.

Pre-Announcement	Yes	No
Was your project previously announced?	<input type="checkbox"/>	x
The project was not previously announced to be going ahead without the revenues from carbon credits.		

C.4. Greenhouse gas

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

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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 Hydro or palm oil-related project) (T.2.5.2)	Rejected by UNFCCC (T2.5.3)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION D. Unique project identification

D.1. GPS-coordinates of project location

Coordinates of the Project Area

Unit	Geographic - Decimal Degree	
	Latitude	Longitude
Weir	41,2327838	33,3010378
Derivation structure	41,2413827	33,2763507
Head pond	41,2313514	33,2195058
Penstock	41,2313478	33,2199271
Power house	41,2274229	33,220298



Explain given coordinates

The coordinates to designate each unit are given in geographical format. The complete number of coordinates is tabulated in "Zala and HEPP, EIA Report, Table 5."

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D.2. Map



Figure 7: The location of Kastamonu Province, Araç District on Turkey Map

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Figure 8: General Layout of the Project area with proposed units - Satellite View

SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

Stakeholder comment	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
What is the radius of the pan stock?	Yes	The radius of the pen stock is 2,05 m.
What is the amount of water that will be released back to the river? (minimum flow)	Yes	It will be 1,043 m ³ /s in the rainy period (which is %10 of the average of 10 years precipitation) and 0,33 m ³ /s for the drought period (which is %10 of the average of 10 years precipitation)

Based on the stakeholder comments, it is not required to alter the project design. However, project owner was decided to care on supplying workers from vicinity and repair of roads at the vicinity.

The invitation list follows;

Category code	Organization (if relevant)	Name of invitee	Way of invitation	Date of invitation	Confirmation received? Y/N
A	Headman of Yenice Village	Halim Gedik	Fax/Mail	09.07.2010	Y
A	Headman of Samatlar Village	Veli Küçükgüzel	Fax/Mail	09.07.2010	Y
A	Headman of Kayaboğazı Village	Eşref Taşöz	Fax/Mail	08.07.2010	Y
A	Headman of İğdir Merkez Village	Serdar Buyurucu	Fax/Mail	09.07.2010	Y
B	The Municipality of Araç	Mustafa Ayanoğlu	Fax/Mail	08.07.2010	Y

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	District				
B	The Governor of Kastamonu Province	Mustafa Kara	Fax/Mail	08.07.2010	Y
B	The Head Office of Araç District	Kemal Kızılkaya	Fax/Mail	08.07.2010	Y
F	Greenpeace Turkey	Hilal Atıcı	Fax/Mail	08.07.2010	Y
B	The Grand National Assembly of Turkey	Hakkı Köylü	Fax/Mail	08.07.2010	Y
B	Directorate of Environment and Forestry of Kastamonu Province	Yaşar Polat	Fax/Mail	08.07.2010	Y
C	Republic of Turkey Ministry of Environment and Forestry	Mustafa Şahin	Fax/Mail	08.07.2010	Y
B	The Grand National Assembly of Turkey	Mehmet Serdaroğlu	Fax/Mail	08.07.2010	Y
B	The Grand National Assembly of Turkey	Hasan Altan	Fax/Mail	08.07.2010	Y
B	The Grand National Assembly of Turkey	Musa Sivacioğlu	Fax/Mail	08.07.2010	Y
F	Rec Turkey	Sibel Sezer Eralp	Fax/Mail	08.07.2010	Y
F	WWF Turkey	Tolga Baştaç	Fax/Mail	08.07.2010	Y
E	Gold Standard	Nahla Sabet	Mail	08.07.2010	Y
F	Mercy Corps	Nancy Lindborg	Mail	08.07.2010	Y
F	Helio International	Rod Janssen	Mail	08.07.2010	Y

The Turkish version of individual invitation is given below:

The following invitation letter was sent out in Turkish via email/post/fax to the above mentioned stakeholders:

Sayın,

Kastamonu ili, Araç ilçesinde; 5,76 MW kurulu güce sahip olacak şekilde inşa edilmesi planlanan Ahmet Hakan Elektrik Üretim A.Ş'ye ait Zala Regülâtörü ve Hidroelektrik Enerji Santrali Projesi'nin tanıtımının yapılması, çevresel ve sosyo-ekonomik etkileri hakkında bilgi verilmesi ve projenin karbon emisyonunun azaltılmasına olan katkısı nedeniyle Uluslararası Gold Standart Organizasyonu platformunda kazandığı değer ve bununla ilgili getiriler ile ilgili bilgi vermek ve projeye dair görüş ve önerilerinizi almak üzere 27 Temmuz 2010 tarihinde saat 14.00 de Yenice Köyü, Yenice Köyü İlköğretim Okulu'nda yapılacak olan Paydaş Toplantısı'na teşriflerinizi arz ederim.

The English version of individual invitation letter is given below:

Dear Madam/Sir,

We request you to participate in the Local Stakeholder Consultation Meeting of Zala Weir and Hydroelectric Power Plant Project planned to be constructed in Province of Kastamonu, Araç District with the capacity of 5.76 MW, by Ahmet Hakan Elektrik Üretim A.Ş. The Stakeholder Consultation aims to give out information about Zala Weir and Hydroelectric Power Plant project, its environmental and socio-economic impacts, and its significance in Gold Standards Organization Platform due to the leading reduction in carbon emissions. The meeting will be held on 27 July 2010 at 14.00 p.m in Yenice Village, Yenice Village Primary School. Your Participation will be a pleasure for us.



The Gold Standard
Premium quality carbon credits

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Enerji Çevre Yatırımları
ve Danışmanlığı Ltd. Şti.

09.07.2010

İÇDİR MERKEZ KÖYÜ MUHTARLIĞI
SN: SERDAR BUYURUCU

Kastamonu İli , Araç İlçe'sinde; 5,76 MW kurulu güce sahip olacak şekilde yapılması planlanan Ahmet Hakan Elektrik Üretim A.Ş.'ye ait Zala Regülatörü ve HES Projesi'nin tanıtımının yapılması, çevresel ve sosyo-ekonomik etkileri hakkında bilgi verilmesi ve projenin karbon emisyonunun azaltılmasına olan katkısı nedeniyle Uluslararası Gold Standard platformunda kazandığı değer ve bununla ilgili getiriler ile ilgili bilgi vermek ve projeye dair görüş ve önerilerinizi almak üzere 27 Temmuz 2010 tarihinde saat 14:00 da Yenice Köyü İlköğretim Okulu, Yenice Köyü / Araç / Kastamonu adresinde yapılacak olan Paydaş Toplantısı'na teşekkürlerinizi arz ederim.

Özge SAHİN

Mahatma Gandhi Caddesi No : 92/2 06680 G.O.P. - ANKARA Tel : +90 312 447 26 22 (pbx) Fax : +90 312 448 38 10

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Enerji Çevre Yatırımları
ve Danışmanlığı Ltd. Şti.

08.07.2010

WWF TÜRKİYE
DOĞAL HAYATI KORUMA VAKFI
SN: TOLGA BAŞTAK

Kastamonu İli , Araç İlçe'sinde; 5,76 MW kurulu güce sahip olacak şekilde yapılması planlanan Ahmet Hakan Elektrik Üretim A.Ş.'ye ait Zala Regülatörü ve HES Projesi'nin tanıtımının yapılması, çevresel ve sosyo-ekonomik etkileri hakkında bilgi verilmesi ve projenin karbon emisyonunun azaltılmasına olan katkısı nedeniyle Uluslararası Gold Standard platformunda kazandığı değer ve bununla ilgili getiriler ile ilgili bilgi vermek ve projeye dair görüş ve önerilerinizi almak üzere 27 Temmuz 2010 tarihinde saat 14:00 da Yenice Köyü İlköğretim Okulu, Yenice Köyü / Araç / Kastamonu adresinde yapılacak olan Paydaş Toplantısı'na teşekkürlerinizi arz ederim.

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Public invitation;

The following invitation letter was published in Turkish in the regional newspaper “Kastamonu Sözcü” on 23 July 2010:

*Kastamonu İli, Araç İlçesi'nde yapılması ve işletilmesi planlanan Zala Regülâtörü ve Hidroelektrik Enerji Santrali Projesi ile ilgili olarak projenin karbon emisyonunun azaltılmasına olan katkısı nedeni ile Uluslar arası Gold Standart organizasyonu platformunda halkı bilgilendirmek, görüş ve önerilerinizi almak üzere aşağıda belirtilen yer ve tarihte bir toplantı düzenlenecektir.
İlgililerin katılmasını rica ederiz.*

Toplantı Yeri: Yenice Köyü/ Yenice Köyü İlköğretim Okulu, ARAÇ/KASTAMONU

Tarih: 27.07.2010

Saat: 14.00

Raporu hazırlayan kuruluş: EN-ÇEV Enerji Çevre Yatırımları Danışmanlığı Ltd. Şti.

Adres: Mahatma Gandhi Cd. No: 92/2 GOP/ANKARA

Tel: 0 312 447 2622 Fax: 0 312 446 3810

www.encev.com.tr

Firma: AHMET HAKAN Elektrik Üretim A.Ş.

The English version is as follows:

We have the pleasure of inviting you to participate in the Public Stakeholder Consultation Meeting of the Zala Weir and Hydroelectric Power Plant Project that is planned to be constructed in Province of Kastamonu, Araç District. The aim of the meeting is to obtain feedback and provide information about the project and its significance in Gold Standard Organization Platform due to leading reduction in carbon emissions.

Location: Yenice Village, Yenice Village Primary School, Araç/Kastamonu

Date: 27.07.2010

Time: 14.00

Consultant: EN-ÇEV Enerji Çevre Yatırımları Danışmanlığı Ltd. Şti.

Adress: Mahatma Gandhi Cd. No: 92/2 GOP/ANKARA

Tel: 0 312 447 2622 Fax: 0 312 446 3810

www.encev.com.tr

Firm: AHMET HAKAN Elektrik Üretim A.Ş.



Figure 9: The main page header of the local Newspaper “Sözcü”

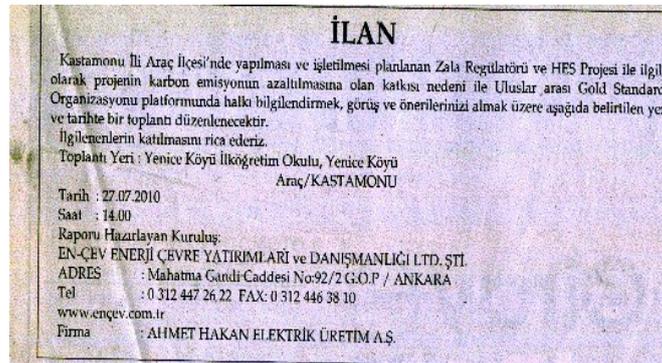


Figure 10: A copy of the invitation letter publicized by the local Newspaper “Sözcü”

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Participant list to the LSC meeting (Annex 2);

Participants List					
Date and time: 27/07/2010 - 14:00					
Location: Yenice Village Elementary School- Yenice Village					
Category Code	Name of participant, job/ position in the community	Male/ Female	Signature	Organization (if relevant)	Contact details
A	Turgut Tülübaş Resident	Male		Yenice Village	
A	Necati Çetin Resident	Male		Yenice Village	
A	Rahmi Menrese Resident	Male		Sarpan Village	
A	Hüseyin Satün Resident	Male		Sarpan Village	
A	Satılmış Satün Resident	Male		Sarpan Village	
A	İmdat Kabeli Resident	Male		Yenice Village	
A	Necati Tülübaş Resident	Male		Yenice Village	
A	Saim Bozlak Resident	Male		Yenice Village	
A	Yunus Zilif Resident	Male		Yenice Village	
A	Hasan İnal Resident	Male		Yenice Village	
A	Yusuf Görülü Resident	Male		Yenice Village	
A	Ahmet Zilif Resident	Male		Yenice Village	
A	Unreadable Writing			Sarpan Village	
A	Murat Bozlak Resident	Male		Yenice Village	0366 362 13 90
A	Halim Gedik Headman of Yenice Village	Male		Yenice Village	0366 362 12 63
C	F. Fikri Özdemir The Substitute of City Manager	Male			0366 362 10 12
A	İhsan Yazar Journalist	Male		Araç District	0366 362 24 20
A	Satılmış Sarıkaya Construction Engineer	Male		Araç District	0366 362 12 11 0366 362 17 64
C	Sema Sarıkaya The Member of Municipality	Female		Araç District	0366 362 18 20
C	Hilmi Yazkan The Chamber of Agriculture The President of the Assembly	Male		Araç District	0366 362 11 88

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Minutes of Meeting:

The Local Stakeholder Consultation meeting was organized to the purpose of public briefing on the installation and operation of Zala HEPP with 5.184 MWe total installed power on Araç Creek in Kastamonu Province, Araç District, obtaining opinions and proposals and creating awareness to accelerate the projects reducing greenhouse gas emissions is realized in 27/07/2010 with the attendance of 20 both local residents and official institutes. Supporter of Gold Standard Organizations i.e. WWF, Greenpeace, Helio International, Mercy Corps and REC Turkey have been informed about project. The place of meeting was chosen to be the closest place to the project area and all local people are informed about meeting in advance of municipality announcements and local newspaper announcements. Before presentation, agenda of the meeting was explained and non-technical Project summary was distributed to the participants for broader view.

Project presentation and description was made by EN-CEV Energy & Environmental Investments Consultancy Company 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.

Prior to blind sustainable development exercise, the questions and comments were taken from participants about further clarification of project. Questions and comments raised by participants were addressed in assessment of comments part.

In the referred meeting;

- It is observed that all people support the project. But care for minimum environmental destruction during construction works is desired.
- Request is made to choose the staff to be employed in the plant from among the local people as much as possible.
- All attendance agrees upon the opinion that these type of projects should be supported since they don't cause carbon emission and thus, global heating.
- Local people believe that the region shall develop socially and economically with the mentioned project.

In brief, the meeting was ended after the project was explained and discussed with the participants. The support of the participant for the project was easily observed.

Preliminary scoring of 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 '-'	Check www.undp.org/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	<u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated <u>No change in impact:</u> score '0' <u>Positive impact:</u> score '+'

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Air quality	Mitigation measure is not required.	<p>MDG Goal 7: Ensure Environmental Sustainability Target 7.a: <i>Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources</i></p>	<p>Parameter: SO₂ and NO_x emissions Baseline: Calculated Tons of SO₂ and NO_x shifted from coal and fuel-oil plants. Target: The project will contribute to a decrease in SO₂ and NO_x emissions. Fossil fuel proportion of the national energy mix will be reduced by the way of generating energy with renewable sources ³⁷</p>	+
Water quality and quantity	<p>To minimize the impact of the project activity to aquatic life, the minimum flow will be released from the weir structure and also from derivation structure to stimulate the flow regime. A reduction in the flow rate can result in a change in the aquatic life and habitat.</p> <p>In addition to the releasing of minimum flow, fish passage³⁸ and scouring sluices³⁹ will be constructed, to minimize this impact. The fish passage permits the passing of fishes during spawning periods as well. The scouring sluice is used to provide the passing of silt and other ecosystem components. The released water to the river is continuously measured by flow meter⁴⁰ in conjunction with online system of the Provincial Directorate of Environment and Urban Planning.</p> <p>In addition to minimum flow, the downstream water rights have to be contributed to the released flow. The assessment of Downstream Users' Water Rights Report⁴¹ was conducted and the report states that the irrigation water have been provided by the upstream irrigation facilities.</p>	<p>MDG Goal 7: Ensure Environmental Sustainability Target 7.a: <i>Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources</i></p>	<p>Parameter: Amount of water released from weir and derivation structure to river beds. Baseline The water quantity of the Araç Creek and Cevizlik Creek before the project implementation. The quantity of water: Monthly Average Flows were provided at the EIA.⁴² Target: The quality of water will not be affected by the project activity based on the nature of HEPP system. The quantity released from weir structure to river bed is the summation of minimum flow. ⁴³ Please see Table 1 for the amount to be released.</p>	0
Soil condition	An assessment regarding amount of excavated soil was conducted in the EIA ⁴⁴ . The excavation will be stored temporarily at the formerly specified and permitted storage	<p>MDG Goal 7 Ensure Environmental Sustainability Target 7.a 7.1. <i>"Proportion of land area covered by forest".</i></p>	<p>Parameter: Appropriate storage of excavation aggregates and sediment transport. Baseline No aggregate production and natural sediment</p>	0

³⁷ Retrieved from http://www.cakmak.av.tr/pdf/32785_1.pdf, page 1

³⁸ Zala HEPP, EIA Report, page 137

³⁹ Zala HEPP, EIA Report, page 132

⁴⁰ Zala HEPP, EIA Report, page 139

⁴¹ Zala HEPP, EIA Report, Annex 20

⁴² Zala HEPP, EIA Report, page 50,51

⁴³ Zala HEPP, EIA Report, page 137,138

⁴⁴ Zala HEPP, EIA Report, section V.1.1 and page 128,129

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	<p>area. The excavation and top soil will be stored separately at those areas. Then, the excavation will be reused for landfilling, backfilling, road repair and service road building purposes.</p> <p>It was indicated that, the 20% of the excavated material will be topsoil (vegetable soil) and stored topsoil will be reused for landscaping and reclamation purposes. The residual excavation (if any) will be disposed to solid waste disposal site by the permission of Araç Municipality.⁴⁵</p> <p>The excavation shall not be poured to river bed, which is strictly forbidden by laws. The project activity will be complied with the "Regulation on the Control of Excavation, Construction and Ruins Waste".⁴⁶</p>		<p>transport along the river.</p> <p>Target: Not to pollute the environment at the project site by the excavated soil.</p>	
Other pollutants	<p>No mitigation measure on noise is required since the noise level relevant to the project remains under the limit value 70 dBA as per relevant regulation⁴⁷ at a distance from the settlements. The noise levels at the nearest settlements to the weir area, transmission channel area, power house area were assessed within the scope of EIA.⁴⁸</p> <p>The calculations for the amount of PM and dust formation were performed by MATCAD and enclosed to Annex 15 of EIA Report.⁴⁹</p> <p>As per the assessment, the expected and calculated PM and dust formation will not exceed the regulated limit values. The precautions⁵⁰: The loading of trucks will be performed without raising dust. The speed limitation shall be applied for the vehicles being operated in the project unit areas (regulator, HEPP etc.), and spraying shall be performed with sprinklers at the working areas</p>	<p>MDG Goal 7 Ensure Environmental Sustainability Target 7a. <i>Although MDG report does not refer to these pollutants, we still consider them as relevant for the "loss of environmental resources".</i></p>	<p>Parameter: Noise level during construction, dust formation, Baseline: No dust, noise or other pollutant source exists. Target: Minimum negative impact to environment. Based on the fact that, the noise, dust and PM values were calculated as lower than the limit values, the impact to environment will be acceptable. Solid wastes will be disposed by the permission of Araç Municipality.</p>	0

⁴⁵ Zala HEPP, EIA Report, page 99

⁴⁶ Zala HEPP, EIA Report, page 100

⁴⁷ The "Regulation on Assessment and Management of Ambient Noise" (Published in official gazette dated 04.06.2010 and numbered 27601)

⁴⁸ Zala HEPP, EIA Report, Section V.1.15 and Annex 16

⁴⁹ Zala HEPP, EIA Report, section V.1.8 and Annex 15

⁵⁰ Zala HEPP, EIA Report, page 127

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	<p>and service roads. The relevant regulations⁵¹ shall be complied.</p> <p>There will be no blasting activities within the scope of the project. Hence no explosive materials will be used up.⁵²</p> <p>Waste oil⁵³ and hazardous waste⁵⁵ and solid wastes⁵⁷⁻⁵⁸ will be handled according to the national regulations.</p>			
Biodiversity	<p>Some plants will be affected during construction; which will be replanted after construction is completed. Reclamation of landscape compartments and impacted areas will be performed after construction finished.⁵⁹</p> <p>During the excavation works, vegetal soil scraped off will be used for reclamation and landscaping activities⁶⁰. Appropriate reclamation activities to the project site to sustain the flora and faunal habitat of will be performed.⁶¹</p> <p>The minimum flow and downstream water rights to be released from weir structure will be monitored continuously to protect the downstream from loss of habitat and drying of stream.</p> <p>The excavations will be used for backfilling purposes and service road building⁶² and will not pour into the river bed. All kind of precautions will be performed to prevent.</p> <p>A fish passage and silt passage will be constructed on the weir structure to sustain the lateral connectivity of river.</p>	<p>MDG Goal 7 Ensure Environmental Sustainability Target 7b: <i>Reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss</i></p>	<p>Parameter: number of affected species in the project site. Baseline: There are existing habitats and regional biodiversity in the region. Target: Minimize the impact of project activity to ecosystem and biodiversity during both construction and operation stages. The continuation of fish diversity and migration of fish species under proper conditions.</p>	0
Quality of employment	Staff will be trained on health and safety. Furthermore, all Health	MDG Goal 1: Eradicate Extreme	Parameter: Number of certificates	+

⁵¹ The "Regulation on Assessment and Management of Ambient Noise" published in the official gazette date 04.06.2010 and numbered 27601 and the "Regulation on the Control of Industry Based Air Quality" published in the official gazette date: 03.07.2009, number: 27277.

⁵² Zala HEPP, EIA Report, page 100

⁵³ The "Regulation on Control of the Waste oil (Published in official gazette dated 30.07.2008 and numbered 26952, amendment: date: 30.03.2010, number: 27537)

⁵⁴ Zala HEPP, EIA Report, page 121, 122

⁵⁵ Regulation on Control of Hazardous Wastes (Published in official gazette dated 14.03.2005 and numbered 25755, amendment: date: 30.10.2010 ,number: 27744)

⁵⁶ Zala HEPP, EIA Report, page 121

⁵⁷ Zala HEPP, EIA Report, page 120

⁵⁸ Regulation on Control of Solid Wastes (Published in official gazette dated 14.03.1991 and numbered 20814)

⁵⁹ Zala HEPP, EIA Report, section V.1.18

⁶⁰ Zala HEPP, EIA Report, page 120

⁶¹ Zala HEPP, EIA Report, page 163

⁶² Zala HEPP, EIA Report, section V.1.1 and page 128,129

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	<p>and Safety measurements will be applied according to the "Legislation on Workers Health and Work Safety".⁶³ An emergency plan is prepared for accident risks.</p>	<p>Poverty and Hunger Target 1.a: <i>Achieve full and productive employment and decent work for all including women and young people</i> 1.4 Growth rate of GDP per person employed</p>	<p>issued/trainings provided. Baseline: The local employees have not been trained on the health and safety of workers before the proposed project Target: During the whole process including construction and operation phases, the health and safety of the workers will be considered well and necessary measures will be taken.</p>	
Livelihood of the poor	Mitigation measures are not required for this indicator.	<p>MDG Goal 1: Eradicate Extreme Poverty and Hunger Target 1.a: <i>Achieve full and productive employment and decent work for all, including women and young people</i> 1.4 Growth rate of GDP per person employed 1.5 Employment-to population ratio</p>	<p>Parameter: The number of locally recruited stuff Baseline: No additional income for local people in absence of the project. Target: Changes and improvements in living standard of local community. Project will create new job opportunities during construction & operation phases.</p>	+
Access to affordable and clean energy services	Mitigation measures are not required for this indicator.		<p>Parameter: fossil fuel replaced with renewable energy sources due to project activity Baseline: Energy demand increases in Turkey constantly. In the absence of the project activity there won't be any difference on energy production in contrary to the energy demand; or the fossil fuels won't take the place of renewable sources. Target: Distributed Energy Systems, like HEPPs are useful for increasing the efficiency. Besides, the project helps to decrease the dependency of imported fossil fuels (like natural Gas, coal etc.)</p>	0
Human and institutional capacity	Mitigation measures are not required for this indicator.	<p>MDG Goal 1 Eradicate Extreme Poverty and Hunger Target 1.b: <i>Achieve full and productive</i></p>	<p>Parameter: The trainings provided to staff Baseline: There is no significant</p>	+

⁶³ Published at the official gazette date: 11.1.1974, No: 14765

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		<p><i>employment and decent work for all, including women and young people</i></p> <p>1.4 Growth rate of GDP per person employed</p> <p>1.5 Employment-to-population ratio</p> <p>1.6 Proportion of employed people living below \$1 (PPP) per day</p> <p>1.7 Proportion of own-account and contributing family workers in total employment</p>	<p>development in the awareness on environmental protection and skills of the local people. Besides, most of the people don't aware of the environmental responsibilities.</p> <p>Target: Improving skills of the staff and awareness about environmental issues.</p>	
Quantitative employment and income generation	Mitigation measures are not required for this indicator.	<p>MDG Goal 1: Eradicate Extreme Poverty and Hunger</p> <p>Target 1.b: <i>Achieve full and productive employment and decent work for all, including women and young people</i></p> <p>1.4 Growth rate of GDP per person employed</p> <p>1.5 Employment-to-population ratio</p> <p>1.6 Proportion of employed people living below \$1 (PPP) per day</p> <p>1.7 Proportion of own-account and contributing family workers in total employment</p>	<p>Parameter: annual wage rate to workers</p> <p>Baseline: No job opportunities and payment</p> <p>Target: Several employees will be employed during construction and operation phases. Therefore the project will contribute to decrease the unemployment rate and help income generation.</p>	+
Balance of payments and investment	Mitigation measures are not required for this indicator.	<p>MDG Goal 8: Develop A Global Partnership For Development</p> <p>Target 8.d: <i>Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term</i></p>	<p>Parameter: Avoided natural gas imported</p> <p>Baseline: Turkey's dependency on imported fossil fuels like natural gas, imported coal, is at high levels.</p> <p>Target: The volume of natural gas needed to generate annual electricity generation of project activity gives the parameter: avoided the natural gas imported. The official data of TEİAŞ will be used for calculation.</p>	+
Technology transfer and technological self-reliance	Mitigation measures are not required for this indicator.	<p>MDG Goal 8 Develop A Global Partnership For Development</p> <p>Target 8.f <i>In cooperation with the private sector, make available the benefits of new technologies, especially information and communications</i></p>	<p>Baseline: not seen the latest technology and know-how</p> <p>Target: Project will enable technology transfer to Turkey and influence development of suppliers in the Country.</p>	0

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A version of the SDM was prepared for the stakeholders which had been filled during LCS meeting. This version is formed of three columns and headings of columns are: name of indicators, what is the opinion of the stakeholder on the impacts of the proposed project (scoring with one of these; +, 0, -) and explanation if any. Please see annex 3 for a copy which is named as the sustainability questionnaire. The sustainability questionnaire was attached to non-technical summary of project and the sheet of 3 questions. These 3 sheets had been distributed to the participants of LSC meeting. The sustainability questionnaire had been full filled by the stakeholders after the presentation during the LSC meeting. The project proponent had helped the participant. The meaning of indicators had been explained in short. It is important not to affect the stakeholders' opinions and alter their scoring. Hence, the consultant let the stakeholders answering own their own.

Below is the scoring of the sustainability questionnaire. The average of scores was applied.
Scoring of blind stakeholder exercise of 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 '-'	Check www.undp.org/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	<u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated <u>No change in impact:</u> score '0' <u>Positive impact:</u> score '+'
Air quality				0
Water quality and quantity				-
Soil condition				0
Other pollutants				-
Biodiversity				-
Quality of employment				-
Livelihood of the poor				-
Access to affordable and clean energy services				-
Human and institutional capacity				-
Quantitative employment and income generation				0
Balance of payments and investment				-
Technology transfer and technological self-reliance				-

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E.2. Stakeholder Feedback Round

The stakeholders' feedback round will be started in line with the validation process. The Gold Standard Foundation and the DOE will be informed about the starting date and the following procedures of the Stakeholder Feedback Round.

Feedback round will be organized according to GS requirements for regular projects. The participants were informed about the follow-up process during the SFR meeting and were asked for their contributions.

Soft copies of the project documents (GS Passport, PDD, GS LSC Report, Turkish version of GS LSC Report, Turkish summary of the project) will be available on the web site of EN-ÇEV (www.encev.com.tr ; under announcements section). Hard copies of the Turkish version of GS LSC Report, non-technical summary of the project and GS Passport in English will be available by sending to the Muhtar's of villages during the 2-month long feedback round for those who do not have internet access.

During the local stakeholder meeting, the participants have been informed about the feedback round. Within the scope of SFR, a visit to project site to communicate with women who did not attend the LSC will be performed. Meanwhile, the man's opinion can also asked and some feedback will be expected.

International offices of Helio International, Mercy Corps and local representative of GS will be included in the feedback round also.

It is planned to be interviewed with the Mukhtar's of villages during the validation site visit for the purpose of following-up the comments from the LSC meeting.

As the female participants were reluctant to participate to the LSC meeting, a separate meeting will be organized with them during the SFR. If necessary, the invitations will be made door-to-door with the wife of the Mukhtar or another respected villager. After the meeting, it is important to encourage women to participate and make interpretations. A feedback form will be distributed to the participants. If they are unwilling to fill, the feedback form will be studied with the women one by one or a group work will be performed.

Furthermore, all relevant feedbacks and comments will be noted and the questions will be answered with respect to the proposed project briefly.

It is expected that the female participation significantly strengthened the local contribution to the stakeholder comments.

The feedbacks of man who were attended the LSC meeting or just live at the vicinity are crucial as well. In order to reach their comments, the popular meeting area, and coffeehouse or in front of mosque may be visited. The feedback may also be received by door-to-door visits to stakeholders' houses.

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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
1 Human Rights	The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	There is not any historical, Natural or Cultural Heritage area within the boundaries of the Project activity. ⁶⁴ The General Directorate of Cultural Heritage and Museums gave opinion ⁶⁵ on the non-existence of mentioned areas.	None	
	The project does not involve and is not complicit in involuntary resettlement.	There will be no involuntary resettlement.	None	
	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.	Turkey is a party of European Convention on Human Rights ⁶⁶ since years. Therefore national and internationally protected rights will be considered.	None	
2 . Labour Standards	The project does not employ and is not complicit in any form of child labour	Turkey has signed the convention of ILO (International Labour Organisation) regarding the prevention of child labour with the articles 182 ⁶⁷ and 138 ⁶⁸	None	
	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.	All the relevant Turkish legislations will be complied during both the construction and operation stages, in addition the international agreements like ILO (articles 87 ⁶⁹ , 98 ⁷⁰ and 102 ⁷¹) will be considered as necessary.	None	
	The project does not involve and is not complicit in any form of forced or compulsory labour.	In addition to the relevant national legislations, Turkey is a party of ILO convention. Therefore regarding the forced labour the articles 29 ⁷² and 105 ⁷³ will be considered.	None	
	The project does not involve and is not	Turkey has signed the relevant articles of ILO which are 100 ⁷⁴ and 111 ⁷⁵ and	None	

⁶⁴ Zala HEPP, EIA Report, page 63

⁶⁵ Zala HEPP, EIA Report, Annex 1(f)

⁶⁶ Please See Official Website of Ministry of Foreign Affairs of Turkey : <http://www.mfa.gov.tr/the-european-convention-on-human-rights.en.mfa>

⁶⁷ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz182.htm>

⁶⁸ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz138.htm>

⁶⁹ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz087.htm>

⁷⁰ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz098.htm>

⁷¹ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz102.htm>

⁷² Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz029.htm>

⁷³ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz105.htm>

⁷⁴ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz100.htm>

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	<p>complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.</p>	<p>committed to comply with the articles in question. Therefore during whole project process the project will not involve any form of discrimination.</p>		
	<p>The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments</p>	<p>All the necessary measures will be taken against the accidents and the safety and healthy environments will be provided for the employees. In addition Turkey is a party of ILO convention, therefore the relevant article which is article 155⁷⁶; will be considered</p>	<p>None</p>	<p>During both construction and operation phases, necessary studies and the organizations will be carried out regarding the health and safety of the staff. The necessary safety measures will be taken in the construction area. In addition, the warning plates will be placed around the whole area. The staff will be trained in respect to the construction safety, against the work accidents and it will be provided that all staff will comply with the safety rules. The project owner will follow the necessary procedures for construction safety standards. A safe and healthy working environment as per the Labour Law Legislation (no: 4857) and regulation on Occupational Health and Safety.</p>
<p>3. Environmental Protection</p>	<p>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 defined as: "When an</p>	<p>The Project will not cause significant pollutions; the minor wastes (domestic wastes, machine oils) will be handled with necessary measures according to the relevant national legislations⁷⁷.</p>	<p>Low</p>	<p>Waste oil⁷⁸ and hazardous waste⁸⁰ and solid wastes⁸² will be handled according to the national regulations.</p>

⁷⁵ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz111.htm>

⁷⁶ Retrieved from <http://www.ilo.org/public/turkish/region/eurpro/ankara/about/soz155.htm>

⁷⁷ Zala HEPP, EIA Report, pages 117.

⁷⁸ The "Regulation on Control of the Waste oil (Published in official gazette dated 30.07.2008 and numbered 26952, amendment: date: 30.03.2010, number: 27537)

⁷⁹ Zala HEPP, EIA Report, page 121, 122

⁸⁰ Regulation on Control of Hazardous Wastes (Published in official gazette dated 14.03.2005 and numbered 25755, amendment: date: 30.10.2010 , number: 27744)

⁸¹ Zala HEPP, EIA Report, page 121

⁸² Zala HEPP, EIA Report, page 120

⁸³ Regulation on Control of Solid Wastes (Published in official gazette dated 14.03.1991 and numbered 20814)

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	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.”			
	The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats, including those that are (a) legally protected, (b) officially proposed for protection, (c) identified by authoritative sources for their high conservation value or (d) recognised as protected by traditional local communities	Turkey has its own legislations regarding the protected areas and is a party of many international agreements regarding the protected areas like BERN and RAMSAR. There isn't any protected area in the project region ⁸⁴ .	None	In addition to that, The proposed Project will completely comply with “Water Pollution Control Regulations” ⁸⁵ and “Law on Aquaculture”
4 .Anti-Corruption	The project does not involve and is not complicit in corruption.	The project does not involve and is not complicit in corruption since Turkey is a part of OECD ⁸⁶ .	Low	The necessary precautions and measures will be taken during construction of proposed project.
Additional relevant critical issues for my project type		Description of relevance to my project	Assessment of relevance to my project (low, medium, high)	Mitigation measure
1				
2				
etc...				

F.2. Sustainable Development matrix

The blind SDM (sustainability questionnaire) was integrated into the preliminary SDM to obtain consolidated SDM. Hence the concerns and opinions of stakeholders were integrated into the preliminary one. However, the sustainability questionnaire may not reflect the real situation. Since there generally is prejudice on HEPP investment due to the formerly constructed and wrong operated HEPPs in Turkey.

⁸⁴ Zala Weir and HEPP, EIA Report , page 64

⁸⁵ Zala HEPP, EIA Report, page 160,161

⁸⁶ Retrieved from http://www.oecd.org/country/0,3377,en_33873108_33873854_1_1_1_1_1,00.html

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Therefore, while preparing the consolidated SDM, the real, country specific, objective knowledge and data, are dominated. The implementation of a conservative approach is rule of thumb. Thus, the consolidated SDM was prepared.

Consolidated 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 '-'	Check www.undp.org/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	<u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated <u>No change in impact:</u> score '0' <u>Positive impact:</u> score '+'
Air quality	Mitigation measure is not required.	MDG Goal 7: Ensure Environmental Sustainability Target 7.a: <i>Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources</i>	Parameter: SO ₂ and NO _x emissions Baseline: Calculated Tons of SO _x and NO _x shifted from coal and fuel-oil plants. Target: The project will contribute to a decrease in SO ₂ and NO _x emissions. Fossil fuel proportion of the national energy mix will be reduced by the way of generating energy with renewable sources ⁸⁷	+
Water quality and quantity	To minimize the impact of the project activity to aquatic life, the minimum flow will be released from the weir structure and also from derivation structure to stimulate the flow regime. A reduction in the flow rate can result in a change in the aquatic life and habitat. In addition to the releasing of minimum flow, fish passage ⁸⁸ and scouring sluices ⁸⁹ will be constructed, to minimize this impact. The fish passage permits the passing of fishes during spawning periods as well. The scouring sluice is used to provide the passing of silt and other ecosystem components. The released water to the river is	MDG Goal 7: Ensure Environmental Sustainability Target 7.a: <i>Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources</i>	Parameter: Amount of water released from weir and derivation structure to river beds. Baseline The water quantity of the Araç Creek and Cevizlik Creek before the project implementation. The quantity of water: Monthly Average Flows were provided at the EIA. ⁹² Target: The quality of water will not be affected by the project activity based on the nature of HEPP system. The quantity released from weir structure to river bed is the summation of minimum flow. ⁹³	0

⁸⁷ Retrieved from http://www.cakmak.av.tr/pdf/32785_1.pdf, page 1

⁸⁸ Zala HEPP, EIA Report, page 137

⁸⁹ Zala HEPP, EIA Report, page 132

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	<p>continuously measured by flow meter⁹⁰ in conjunction with online system of the Provincial Directorate of Environment and Urban Planning.</p> <p>In addition to minimum flow, the downstream water rights have to be contributed to the released flow. The assessment of Downstream Users' Water Rights Report⁹¹ was conducted and the report states that the irrigation water have been provided by the upstream irrigation facilities.</p>		Please see Table 1 for the amount to be released.	
Soil condition	<p>An assessment regarding amount of excavated soil was conducted in the EIA⁹⁴. The excavation will be stored temporarily at the formerly specified and permitted storage area. The excavation and top soil will be stored separately at those areas. Then, the excavation will be reused for landfilling, backfilling, road repair and service road building purposes.</p> <p>It was indicated that, the 20% of the excavated material will be topsoil (vegetable soil) and stored topsoil will be reused for landscaping and reclamation purposes. The residual excavation (if any) will be disposed to solid waste disposal site by the permission of Araç Municipality.⁹⁵</p> <p>The excavation shall not be poured to river bed, which is strictly forbidden by laws. The project activity will be complied with the "Regulation on the Control of Excavation, Construction and Ruins Waste".⁹⁶</p>	<p>MDG Goal 7 Ensure Environmental Sustainability Target 7.a 7.1. <i>"Proportion of land area covered by forest".</i></p>	<p>Parameter: Appropriate storage of excavation aggregates and sediment transport.</p> <p>Baseline No aggregate production and natural sediment transport along the river.</p> <p>Target: Not to pollute the environment at the project site by the excavated soil.</p>	0
Other pollutants	<p>No mitigation measure on noise is required since the noise level relevant to the project remains under the limit value 70 dBA as per relevant regulation⁹⁷ at a distance from the settlements. The noise levels at the nearest settlements to the weir area, transmission channel area, power house area were</p>	<p>MDG Goal 7 Ensure Environmental Sustainability Target 7a. <i>Although MDG report does not refer to these pollutants, we still consider them as relevant for the "loss of environmental resources".</i></p>	<p>Parameter: Noise level during construction, dust formation,</p> <p>Baseline: No dust, noise or other pollutant source exists.</p> <p>Target: Minimum negative impact</p>	0

⁹² Zala HEPP, EIA Report, page 50,51

⁹³ Zala HEPP, EIA Report, page 137,138

⁹⁰ Zala HEPP, EIA Report, page 139

⁹¹ Zala HEPP, EIA Report, Annex 20

⁹⁴ Zala HEPP, EIA Report, section V.1.1 and page 128,129

⁹⁵ Zala HEPP, EIA Report, page 99

⁹⁶ Zala HEPP, EIA Report, page 100

⁹⁷ The "Regulation on Assessment and Management of Ambient Noise" (Published in official gazette dated 04.06.2010 and numbered 27601)

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	<p>assessed within the scope of EIA.⁹⁸</p> <p>The calculations for the amount of PM and dust formation were performed by MATCAD and enclosed to Annex 15 of EIA Report.⁹⁹</p> <p>As per the assessment, the expected and calculated PM and dust formation will not exceed the regulated limit values. The precautions¹⁰⁰: The loading of trucks will be performed without raising dust. The speed limitation shall be applied for the vehicles being operated in the project unit areas (regulator, HEPP etc.), and spraying shall be performed with sprinklers at the working areas and service roads. The relevant regulations¹⁰¹ shall be complied.</p> <p>There will be no blasting activities within the scope of the project. Hence no explosive materials will be used up.¹⁰²</p> <p>Waste oil¹⁰³ and hazardous waste¹⁰⁵ and solid wastes¹⁰⁷ will be handled according to the national regulations.</p>		<p>to environment. Based on the fact that, the noise, dust and PM values were calculated as lower than the limit values, the impact to environment will be acceptable.</p> <p>Solid wastes will be disposed by the permission of Araç Municipality.</p>	
<p>Biodiversity</p>	<p>Some plants will be affected during construction; which will be replanted after construction is completed.</p> <p>Reclamation of landscape compartments and impacted areas will be performed after construction finished.¹⁰⁹</p> <p>During the excavation works, vegetal soil scraped off will be used for reclamation and landscaping activities¹¹⁰.</p> <p>Appropriate reclamation activities to the project site to sustain the</p>	<p>MDG Goal 7 Ensure Environmental Sustainability Target 7b: <i>Reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss</i></p>	<p>Parameter: number of affected species in the project site. Baseline: There are existing habitats and regional biodiversity in the region. Target: Minimize the impact of project activity to ecosystem and biodiversity during both construction and operation stages. The continuation of fish diversity and migration of</p>	<p style="text-align: center;">0</p>

⁹⁸ Zala HEPP, EIA Report, Section V.1.15 and Annex 16

⁹⁹ Zala HEPP, EIA Report, section V.1.8 and Annex 15

¹⁰⁰ Zala HEPP, EIA Report, page 127

¹⁰¹ The “Regulation on Assessment and Management of Ambient Noise” published in the official gazette date 04.06.2010 and numbered 27601 and the “Regulation on the Control of Industry Based Air Quality” published in the official gazette date: 03.07.2009, number: 27277.

¹⁰² Zala HEPP, EIA Report, page 100

¹⁰³ The “Regulation on Control of the Waste oil (Published in official gazette dated 30.07.2008 and numbered 26952, amendment: date: 30.03.2010, number: 27537)

¹⁰⁴ Zala HEPP, EIA Report, page 121, 122

¹⁰⁵ Regulation on Control of Hazardous Wastes (Published in official gazette dated 14.03.2005 and numbered 25755, amendment: date: 30.10.2010 ,number: 27744)

¹⁰⁶ Zala HEPP, EIA Report, page 121

¹⁰⁷ Zala HEPP, EIA Report, page 120

¹⁰⁸ Regulation on Control of Solid Wastes (Published in official gazette dated 14.03.1991 and numbered 20814)

¹⁰⁹ Zala HEPP, EIA Report, section V.1.18

¹¹⁰ Zala HEPP, EIA Report, page 120

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	<p>flora and faunal habitat of will be performed. ¹¹¹</p> <p>The minimum flow and downstream water rights to be released from weir structure will be monitored continuously to protect the downstream from loss of habitat and drying of stream.</p> <p>The excavations will be used for backfilling purposes and service road building¹¹² and will not pour into the river bed. All kind of precautions will be performed to prevent.</p> <p>A fish passage and silt passage will be constructed on the weir structure to sustain the lateral connectivity of river.</p>		<p>fish species under proper conditions.</p>	
Quality of employment	<p>Staff will be trained on health and safety. Furthermore, all Health and Safety measurements will be applied according to the "Legislation on Workers Health and Work Safety". ¹¹³</p> <p>An emergency plan is prepared for accident risks.</p>	<p>MDG Goal 1: Eradicate Extreme Poverty and Hunger Target 1.a: <i>Achieve full and productive employment and decent work for all including women and young people</i> <i>1.4 Growth rate of GDP per person employed</i></p>	<p>Parameter: Number of certificates issued/trainings provided. Baseline: The local employees have not been trained on the health and safety of workers before the proposed project Target: During the whole process including construction and operation phases, the health and safety of the workers will be considered well and necessary measures will be taken.</p>	+
Livelihood of the poor	<p>Mitigation measures are not required for this indicator.</p>	<p>MDG Goal 1: Eradicate Extreme Poverty and Hunger Target 1.a: <i>Achieve full and productive employment and decent work for all, including women and young people</i> <i>1.4 Growth rate of GDP per person employed</i> <i>1.5 Employment-to population ratio</i></p>	<p>Parameter: The number of locally recruited staff Baseline: No additional income for local people in absence of the project. Target: Changes and improvements in living standard of local community. Project will create new job opportunities during construction & operation phases.</p>	+
Access to affordable and clean energy services	<p>Mitigation measures are not required for this indicator.</p>		<p>Parameter: fossil fuel replaced with renewable energy sources due to project activity Baseline:</p>	0

¹¹¹ Zala HEPP, EIA Report, page 163

¹¹² Zala HEPP, EIA Report, section V.1.1 and page 128,129

¹¹³ Published at the official gazette date: 11.1.1974, No: 14765

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			<p>Energy demand increases in Turkey constantly. In the absence of the project activity there won't be any difference on energy production in contrary to the energy demand; or the fossil fuels won't take the place of renewable sources.</p> <p>Target: Distributed Energy Systems, like HEPPs are useful for increasing the efficiency. Besides, the project helps to decrease the dependency of imported fossil fuels (like natural Gas, coal etc.)</p>	
Human and institutional capacity	Mitigation measures are not required for this indicator.	<p>MDG Goal 1 Eradicate Extreme Poverty and Hunger Target 1.b: <i>Achieve full and productive employment and decent work for all, including women and young people</i> 1.4 <i>Growth rate of GDP per person employed</i> 1.5 <i>Employment-to-population ratio</i> 1.6 <i>Proportion of employed people living below \$1 (PPP) per day</i> 1.7 <i>Proportion of own-account and contributing family workers in total employment</i></p>	<p>Parameter: The trainings provided to staff Baseline: There is no significant development in the awareness on environmental protection and skills of the local people. Besides, most of the people don't aware of the environmental responsibilities. Target: Improving skills of the staff and awareness about environmental issues.</p>	+
Quantitative employment and income generation	Mitigation measures are not required for this indicator.	<p>MDG Goal 1: Eradicate Extreme Poverty and Hunger Target 1.b: <i>Achieve full and productive employment and decent work for all, including women and young people</i> 1.4 <i>Growth rate of GDP per person employed</i> 1.5 <i>Employment-to-population ratio</i> 1.6 <i>Proportion of employed people living below \$1 (PPP) per day</i> 1.7 <i>Proportion of own-account and contributing family workers in total employment</i></p>	<p>Parameter: annual wage rate to workers Baseline: No job opportunities and payment Target: Several employees will be employed during construction and operation phases. Therefore the project will contribute to decrease the unemployment rate and help income generation.</p>	+
Balance of payments and investment	Mitigation measures are not required for this indicator.	<p>MDG Goal 8: Develop A Global Partnership For Development</p>	<p>Parameter: Avoided natural gas imported Baseline:</p>	+

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		<p>Target 8.d: <i>Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term</i></p>	<p>Turkey's dependency on imported fossil fuels like natural gas, imported coal, is at high levels. Target: The volume of natural gas needed to generate annual electricity generation of project activity gives the parameter: avoided the natural gas imported. The official data of TEİAŞ will be used for calculation.</p>	
Technology transfer and technological self-reliance	Mitigation measures are not required for this indicator.	<p>MDG Goal 8 Develop A Global Partnership For Development Target 8.f <i>In cooperation with the private sector, make available the benefits of new technologies, especially information and communications</i></p>	<p>Baseline: not seen the latest technology and know-how Target: Project will enable technology transfer to Turkey and influence development of suppliers in the Country.</p>	0

Justification choices, data source and provision of references

A justification paragraph and reference source is required for each indicator, regardless of score

Air quality	<p>A dust emission shall occur during the work of preparation of land and at the stage of construction at the project unit areas, during the other infrastructure works, during transportation and storing processes, during the movement of vehicles at the project area. A dust emission shall form arising from the activities (excavation, fill, etc.) at the stage of construction.¹¹⁴ The following precautions shall be taken to minimize the dust to occur during all works in the scope of projects; the operation area and transport roads shall be sprinkled by a water truck in order that the dusts from the operation would not harm the neighbouring agricultural lands. Loading of produced products on the trucks shall be performed without hurling them about and dust emission shall be prevented by covering the top of trucks by canvas.¹¹⁵ The sprinkling water to prevent dusting during summer months shall be supplied from Araç Creek.¹¹⁶ Since watering work shall be made continuously by water trucks directed to prevent dust, the dust emissions during operation shall be lower than those values calculated.¹¹⁷ In the construction stage from preparation of land to the opening of units a formation of gas emissions shall be in question arising from fuel utilization of construction equipment. Formation of gas and dust emission will not be observed in the operation stage.</p>
Water quality and quantity	<p>Drinking and potable water needed for the staff during the construction stage of the said project shall be supplied from the springs and fountains of villages in the vicinity. Water use permission shall be obtained from the headmen of villages for the use of village waters. When required, the drinking water for the staff may be obtained with carboys.¹¹⁸ In the said project, water obtained through the weir structure shall be returned to the bed of Araç Creek after electric generation. Therefore some quantity of the water in Araç Creek shall be used for energy. An interruption shall not be in question between the living zones of fishes with a fish gate planned on the regulator. Water released to Araç Creek from the regulator shall minimize the adverse effects to occur because the creek's water is taken. The creek shall again have its normal discharge with the tail water at the outlet of power house and the operation shall not have any effect on the natural life of creek.¹¹⁹ A certain quantity of water shall be released to the creek bed for about 9 km between Zala weir and power house location for the continuation of life.¹²⁰ Since the water used to prevent dust formation shall evaporate, its recycle as waste</p>

¹¹⁴ Zala HEPP, EIA Report, page 108

¹¹⁵ Zala HEPP, EIA Report, page 110

¹¹⁶ Zala HEPP, EIA Report, page 28

¹¹⁷ Zala HEPP, EIA Report, page 110

¹¹⁸ Zala HEPP, EIA Report, page 28

¹¹⁹ Zala HEPP, EIA Report, page 89

¹²⁰ Zala HEPP, EIA Report, page 137

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	water shall not be in question.
Soil condition	Prior to the construction of facilities involved under the project, the land shall be prepared and foundation excavation is performed. First organic soil on the surface shall be stripped under this work. As a result of these works, an excavation waste shall be under consideration.
Other pollutants	<p>a) Solid Waste: There shall exist organic origin wastes such as food wastes within the domestic solid wastes. Furthermore, the recyclable solid wastes (paper, glass, plastic, metal cans, etc.) within the domestic wastes originated from the staff shall be accumulated separate from the organic origin wastes and given to recycling plants in the direction of related provisions of the Regulation on Control of Packing Wastes published in the O. G. dated 24/06/2007 and number 26562 (amended by O.G. dated 30.03.2010 and number 27537). Collection, accumulation and removal of solid wastes shall be performed as indicated in the Regulation on Control of Solid Wastes. As indicated in Article 18 of "Regulation on Control of Solid Wastes" published in O.G. dated 14.03.1991 and number 20814, dumping the domestic solid wastes to seas, lakes and like receiving environment, and streets, forests and locations causing adverse effect on the environment is forbidden. In this direction, solid wastes that are formed in the operation stage shall be accumulated in closed containers within the power station building and regularly transported to the garbage dump area of Araç Municipality by the employees with closed special vehicles and removed. In the stage of removing the solid wastes in the stage of operation, the provisions of "Regulation on Control of Solid Wastes" published in O.G. dated 14.03.1991 and number 20814, (amended by O.G. dated April 5, 2005 and number 25777) shall anyway be complied with.¹²¹</p> <p>b) Noise: A formation of noise shall be under consideration as a result of operation of construction equipment to be used in the stage of land preparation and construction stage. An assessment was conducted within the scope of EIA¹²² to identify the impact of noise observed from the construction activities as per "The Regulation on The Assessment and Management of Ambient Noise" which defines the limit value for construction activity as 70 dBA¹²³. The noise pressure levels of selected construction areas (ie: weir area, transmission channel area, power house area) were calculated by using the noise levels of to be used heavy vehicles¹²⁴ during construction. The noise levels of the specific construction areas were detected lower than the limit value with respect to the distance in between.</p>
Biodiversity	A local flora loss shall be under consideration as a result of excavations in the stage of construction under the proposed project. ¹²⁵ Flora vegetation in the project area shall be destroyed during the works performed in the stage of preparation of land and construction. However, after the construction stage is completed, landscaping work complying with topography and regional vegetation shall be performed around the project area. Attention shall be paid to the running periods and hours of the construction equipment in the construction period from the point of view that macro creatures do not incur change of place due to discomfort factor and other adverse factors. Filling processes with materials emerging from excavation during construction period shall be minimized not to cause instability of fauna habitats nearby. ¹²⁶ It is foreseen that terrestrial fauna species living in the areas in the forest where trees shall be cut would not be affected adversely because of the project due to migrating or being carried to nearby forest areas which have the same characteristics. ¹²⁷ On the other hand, during operation stage, the flow regime of water in Araç Creek changes between the weir where the water is diverted and the discharge of power house. The aquatic habitat shall possibly be affected on the basis of change (drop) in the flow regime of water in Araç Creek between the regulator and hydroelectric power plant. Therefore, a certain quantity of water shall be released to downstream of the weir for the minimization of this adverse effect and continuation of aquatic environment. ¹²⁸ Differentiation of existing niches originating from the project is not in question. The same situation is under

¹²¹ Zala HEPP, EIA Report, page 120

¹²² Zala HEPP, EIA Report, Section V.1.15 and Annex 16

¹²³ decibel A-weighting, an environmental noise measurement

¹²⁴ Due to the nature of the assessment, it was assumed that, all heavy vehicles will be used at the same time. However, it is not possible in reality. Hence, the real noise level will be lower than the calculated ones.

¹²⁵ Zala HEPP, EIA Report, page 148

¹²⁶ Zala HEPP, EIA Report, page 163

¹²⁷ Zala HEPP, EIA Report, page 111

¹²⁸ Zala HEPP, EIA Report, page 30

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	consideration for the aquatic micro-organisms. An influence is in question for moving micro-organisms since flow rate changes. Releasing some water for benthic or base-attached organisms shall keep adverse effects at minimum level. ¹²⁹
Quality of employment	Project activities will create many direct and indirect opportunities both locally and nationally. There is no adverse effect of the positions. All employees will be trained for occupational safety according to local regulations.
Livelihood of the poor	Generating electricity from resources that was not used before creates an additional income to the local community, influencing the poverty alleviation, particularly in the rural areas, and accelerates the regional economic development. As a measurable effect, the impact on the local economy shall be monitored and reported in form of contracts with and invoices from local subcontractors and businesses.
Access to affordable and clean energy services	As a local energy source, hydro 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. 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.
Human and institutional capacity	Project development will promote the use of renewable energies in the region. It will require widespread education and skills improvement, as the local people will be incorporated in the development and maintenance of the project. The local public is intensively involved in the development and decision-making regarding the plant within the stakeholder consultation process, representing a new kind of institution as part of the development of a Turkish energy project. One measurable effect on human capacity is the improved skills of plant staff. Education and trainings are part of the monitoring. One measurable effect on human capacity is the improved skills of plant staff. Education and trainings are part of the monitoring.
Quantitative employment and income generation	Employment of 100 persons, unqualified people dominating, is planned in the construction stage under Zala HEPP project. On the other hand, employment of 5 people in the power plant in the stage of operation is planned for maintenance and control works dominantly as qualified personnel.
Balance of payments and investment	The project and its role in strengthening the sustainable sector of electricity generation in Turkey tend to contribute to mitigation of import dependency. With 70% of total primary energy supply in the last years and a growing trend this is an important issue for Turkish energy policy. Electricity generation from renewable sources is completely independent from any imports and thus does not have any negative effects on the balance of payments. The positive effect of this project to this indicator will be monitored by calculation of avoided natural gas and liquid fuel import amount for electricity production. The share of electricity generation from natural gas and liquid petroleum fuels, total natural gas and liquid petroleum fuels amounts used for electricity production and electricity production amount of natural gas and liquid petroleum fuels will be taken from official statistics.
Technology transfer and technological self-reliance	As the project developer is a Turkish company using the returns from the GS VER project to enable the realization of the hydroelectric 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. For this parameter, quantifiable monitoring cannot be achieved; therefore, this parameter will not be monitored and taken as zero.

The blind stakeholder consultation matrixes which can be seen in the section “E.1 Assessment of Stakeholder Comment” were filled by stakeholders during the LSC. The gathering of preliminary scored sustainable development matrix and blind stakeholder scored sustainable development matrix gives the “Consolidated Sustainable Development Matrix” above. The monitoring plan and the parameters to be monitored shall be defined and specified in accordance with the “Consolidated Sustainable Development Matrix”. During the local stakeholder consultation, the stakeholders did not state any negative comments as is seen from the “Blind

¹²⁹ Zala HEPP, EIA Report, page 136

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Stakeholder Sustainable Development Matrix". Hence, the preliminary sustainable development matrix did not revisit resulting a change.

SECTION G. Sustainability Monitoring Plan

No	1	
Indicator	Air Quality	
Mitigation measure	N/A	
Chosen parameter 1.1	tSO ₂ reduction (Sulfur Dioxide)	
Current situation of parameter 1.1	SO ₂ is emitted by grid connected thermal power plants	
Future target for parameter 1.1	SO ₂ emission reduction in parallel to generated electricity by proposed project activity	
Chosen parameter 1.2	tNO _x reduction(Nitrogen Oxides)	
Current situation parameter 1.2	NO _x is emitted by grid connected thermal power plants	
Future target for parameter 1.2	NO _x emission reduction in parallel to generated electricity by proposed project activity	
Way of monitoring		
	How	The project, by replacing electricity from fossil fuel consumption and the related fuel consumption, reduces the baseline SO ₂ and NO _x emissions from electricity generation. The reduction of SO ₂ and NO _x emissions will be calculated by multiplying net electricity generation of the PO with the SO ₂ and NO _x intensities. The intensities of SO ₂ and NO _x can be provided from the division of SO ₂ and NO _x emission amounts –referred from National GHG inventory of Turkey to net electricity system generation of Turkey referred from TEIAS statistical data. (http://www.teias.gov.tr/istatistik2009/23.xls)
	When	Annually
	By who	The carbon consultant

No	2																								
Indicator	Water Quality and Quantity																								
Mitigation measure	The project owner guarantees to release the "minimum water" with respect to regulations. The amount of minimum water to sustain the fauna, flora and the agriculture in the basin is estimated and monitored by the State Water Works (DSI). The assembly of flow monitoring stations before and after the weir structure is an obligation as per regulations. The monitoring of flow rates is done by the way of flow monitoring stations named as "AGI" in TR. These stations directly connected to General Directorate of State Hydraulic Works with an online system. Measurement and monitoring of flow is achieved by General Directorate.																								
Chosen parameter	Water Flow between the regulator and the tail race (l/sec)																								
Current situation of parameter	Natural water flow in the river																								
Future target for parameter	<table border="1"> <thead> <tr> <th rowspan="2">Months</th> <th colspan="2">Minimum (ecological) flow</th> </tr> <tr> <th>Zala Weir</th> <th>Derivation Structure</th> </tr> </thead> <tbody> <tr> <td>January</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> <tr> <td>February</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> <tr> <td>March</td> <td>1043 l/sec</td> <td>1100 l/sec</td> </tr> <tr> <td>April</td> <td>1043 l/sec</td> <td>1100 l/sec</td> </tr> <tr> <td>May</td> <td>1043 l/sec</td> <td>1100 l/sec</td> </tr> <tr> <td>June</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> </tbody> </table>		Months	Minimum (ecological) flow		Zala Weir	Derivation Structure	January	330 l/sec	350 l/sec	February	330 l/sec	350 l/sec	March	1043 l/sec	1100 l/sec	April	1043 l/sec	1100 l/sec	May	1043 l/sec	1100 l/sec	June	330 l/sec	350 l/sec
Months	Minimum (ecological) flow																								
	Zala Weir	Derivation Structure																							
January	330 l/sec	350 l/sec																							
February	330 l/sec	350 l/sec																							
March	1043 l/sec	1100 l/sec																							
April	1043 l/sec	1100 l/sec																							
May	1043 l/sec	1100 l/sec																							
June	330 l/sec	350 l/sec																							

GOLD STANDARD PASSPORT

		<table border="1"> <tr> <td>July</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> <tr> <td>August</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> <tr> <td>September</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> <tr> <td>October</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> <tr> <td>November</td> <td>330 l/sec</td> <td>350 l/sec</td> </tr> <tr> <td>December</td> <td>330 l/sec</td> <td>330 l/sec</td> </tr> </table>	July	330 l/sec	350 l/sec	August	330 l/sec	350 l/sec	September	330 l/sec	350 l/sec	October	330 l/sec	350 l/sec	November	330 l/sec	350 l/sec	December	330 l/sec	330 l/sec
July	330 l/sec	350 l/sec																		
August	330 l/sec	350 l/sec																		
September	330 l/sec	350 l/sec																		
October	330 l/sec	350 l/sec																		
November	330 l/sec	350 l/sec																		
December	330 l/sec	330 l/sec																		
Way of monitoring	How	Monitored via the River Observation Station placed to the riverbed.																		
	When	Annually																		
	By who	Project owner																		

No	3	
Indicator	Quality of employment	
Mitigation measure	technical staff will be trained and certified if required	
Chosen parameter	personnel participating the trainings	
Current situation of parameter	None	
Future target for parameter	All staff to be trained for health and safety issues and relevant staff to be trained for technical issues.	
Way of monitoring	How	Through the evaluation of training records
	When	Annually
	By who	The carbon consultant and the project owner

No	4	
Indicator	Livelihood of the poor	
Mitigation measure	Local people have priority in recruitment.	
Chosen parameter	People employed from local community	
Current situation of parameter	none	
Future target for parameter	About 5 people is planned to be employed during operation. The number of locally employed staff will be estimated in accordance with the skills of local people and what is required.	
Way of monitoring	How	Through evaluation of local people employed, contracts with and invoices
	When	Annually
	By who	The carbon consultant and the project owner

No	5	
Indicator	Human and institutional capacity	
Mitigation measure	The trainings provided to staff, and improved knowledge of local people	
Chosen parameter	Improvement in the skills of plant personnel who participates the trainings at operation stage.	
Current situation of parameter	None	
Future target for parameter	At the construction stage, employees will be trained and have training certificates. At the operation stage all employees hired for operation will be trained as well.	
Way of monitoring	How	Through the evaluation of training certificates
	When	Annually
	By who	The carbon consultant and the project owner

No	6	
Indicator	Quantitative employment and income generation	
Mitigation measure	The project owner is committed to prioritize the local workers in selecting the construction workers, planned to hire during operation.	

GOLD STANDARD PASSPORT

Chosen parameter		Annual wage rate to workers
Current situation of parameter		N/A
Future target for parameter		5 workers during operation, the number from local will be estimated in accordance with skills of probable staff.
Way of monitoring	How	Annual wage rate to workers will be recorded.
	When	Annually
	By who	The carbon consultant and the project owner

No		7
Indicator		Balance of payments
Mitigation measure		Not required
Chosen parameter		Amount of avoided fossil fuel (i.e. natural gas) imported
Current situation of parameter		In the year 2009, 96094.7 GWh ¹³⁰ electricity generated by firing 20.978x10 ⁹ m ³ ¹³¹ of natural gas. Hence, 0.2 m ³ / KWh is consumed.
Future target for parameter		18.606 GWh is the expected electricity generation annually which corresponds to generation by consuming 3721.4x10 ³ m ³ natural gas. 3721.4x10 ³ m ³ natural gas import will be avoided by implementation of proposed project in the event of achievement of expected electricity generation.
Way of monitoring	How	Through comparing electricity generated by the proposed project and natural gas and liquid fuel amount that would be used to produce the same amount of electricity . The positive effect of this project to this indicator will be monitored by calculation of avoided natural gas import amount for electricity production. The share of electricity generation from natural gas , total natural gas amounts used for electricity production and electricity production amount of natural gas will be taken from official statistics.
	When	Annually
	By who	The carbon consultant

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

Additionality assessment is performed according to the “Tool for the demonstration and assessment of additionality, version 06.0.0” approved by UNFCCC. The detailed information is available in PDD

H.2. Conservativeness

Conservative approach has been followed in calculating baseline emission factors and investment analysis sections as detailed in PDD.

¹³⁰ Retrieved from [http://www.teias.gov.tr/istatistik2009/37\(06-09\).xls](http://www.teias.gov.tr/istatistik2009/37(06-09).xls)

¹³¹ Retrieved from <http://www.teias.gov.tr/istatistik2009/44.xls>

GOLD STANDARD PASSPORT

ANNEX 1 ODA declaration

Please find the Official Development Assistance Declaration template below. This document should be signed, scanned and submitted as an Annex to your Gold Standard Passport.

Letterhead of Project Owner

Date

Project reference Zala HEPP (5,76 MW) Kastamonu , GS 933
To: Gold Standard Foundation

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

[Project Owner] Ahmet Hakan Dlek Üretim A.Ş.

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

[Authorised Representative:] İbrahim Usta

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 [CERs, ERUs or VERs] issued as a result of the project's operation will be transferred directly or indirectly to the country of origin of the ODA.

II. Duty to Notify Upon Discovery

If I learn or if I am given any reason to believe at any stage of project design or implementation that ODA has been used to support the development or implementation of the project, or that an entity providing ODA to the host country may at some point in the future benefit directly or indirectly from the credits generated from the project as a condition of investment, I will make this known to the Gold Standard immediately.

III. Sanctions. I am fully aware that under Section 10 of the Gold Standard Terms and Conditions sanctions and damages may be incurred for the provision of false information related to Projects and/or Gold Standard credits.

Signed: 

Name: Oğkan Altıoğlu

Title: Civil Engineer - Company Coordinator.

On behalf of: İbrahim Usta

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Gold Standard Annexes to Toolkit Version 2.1 effective 1 July 2009 – use together with
Versions 2.1 of the Gold Standard Requirements and Toolkit

Developed by Ecofys, TÜV-SÜD and FIELD



GOLD STANDARD PASSPORT

ANNEX 2

Participant List

KASTAMONU İLİ ARAÇ İLÇESİ ZALA REGÜLÂTÖRÜ VE HES PROJESİ PAYDAŞ TOPLANTISI KATILIM LİSTESİ 27.07.2010

AD-SOYAD	KURUM	ADRES	TEL/FAKS	E-POSTA	İMZA
Necati Tülübaş		Yenice Köyü Araç			
Saim Bozlak		Yenice Köyü ARAÇ			
Yunus Zilif		Yenice Köyü Araç			
Hasan İnal		Yenice Köyü			
Muhsin Çoşkun		Yenice Köyü			
Ahmet Zilif		Yenice			
B. J. Öztürk		Sarıncık Köyü			

KASTAMONU İLİ ARAÇ İLÇESİ ZALA REGÜLÂTÖRÜ VE HES PROJESİ PAYDAŞ TOPLANTISI KATILIM LİSTESİ 27.07.2010

AD-SOYAD	KURUM	ADRES	TEL/FAKS	E-POSTA	İMZA
Turgut Tülübaş		Yenice Köyü			
Necati Çelik		Yenice Köyü			
Sahmi MENKELİ		Sarıncık			
Hüseyin Sertici		Sarıncık			
Özdemir Sertici		Sarıncık			
İsmail Sertici		Yenice Köyü			



GOLD STANDARD PASSPORT

KASTAMONU İLİ ARAÇ İLÇESİ ZALA REGÜLÂTÖRÜ VE HES PROJESİ PAYDAŞ TOPLANTISI KATILIM LİSTESİ 27.07.2010

AD-SOYAD	KURUM	ADRES	TEL/FAKS	E-POSTA	İMZA
MURAT BOZLAK		Şenice köyü	362 1330		
Hafise Gökçe		" "	03663621263		
F.İkinci ÖZDEMİR	Belediye Başkanlığı		03663621012		
İhsan Yaran	Çarşı	Araç	03663622420		
Satılmış Sarıtaç	İnş.Müh.	Kast. Cad. Dış. B. mülki. Kat. No: 4 ARAÇ	03663621211 03663621764	satilim@arac.com	
Sema Sarıtaç	Bel. mecl. üyesi	" "	03663621820	" "	
Halim Yılmaz	Ziraat Odası Meclis üyesi	K. roo. 301.104	03663621188	" "	



The Gold Standard
Premium quality carbon credits

GOLD STANDARD PASSPORT

ANNEX 3

Blind SDM (Sustainability Questionnaire)

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi: Zola Regülasyon ve Hidroelektrik San. T

Tarih: 22.03.2013

Katılımcı Adı Soyadı: Cavdat NAC

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "1", olumsuz ise "2", etkisi olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi		
Hava kalitesi		Düşük
Diğer kirlenmeler		Zaman zaman
Toprak kalitesi		Suyla beslenmiş, suyla beslenmiş
Biyolojiklilik		Hayvanlar nedeniyle
İş kalitesi		Toprak kalitesi düşük
Teknolojik Gelişim		
Geçim kaynakları		ETKİSİZ
Düşük maliyetli temiz enerjiye erişim		Diğer kaynaklardan
İnsan ve kurumsal kapasite		Fazlasıyla
İstihdam		ETKİSİZ
Yatırım ve ödeme dengeleri		
Teknoloji transferi ve teknolojik olarak kendine yetebilme		Teknoloji transferi

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi:

Tarih: 27.07.2010

Katılımcı Adı Soyadı: Yusuf Çetinkılıç

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "1", olumsuz ise "2", etkisi olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi		
Hava kalitesi		
Diğer kirlenmeler		
Toprak kalitesi		
Biyolojiklilik		
İş kalitesi		
Teknolojik Gelişim		
Geçim kaynakları		
Düşük maliyetli temiz enerjiye erişim		
İnsan ve kurumsal kapasite		
İstihdam		
Yatırım ve ödeme dengeleri		
Teknoloji transferi ve teknolojik olarak kendine yetebilme		

Not: Gold Standard Sürdürülebilirlik Göstergeleri hakkında bilgim olmadığı için projenin olumlu veya olumsuz etkileri hakkında bir değerlendirme yapamadım. Yalnızca bu projenin etkisi olmadığını belirtmek istiyorum.



GOLD STANDARD PASSPORT

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi: Zelen Regülasyon ve Hızlı Akademi Sanatları

Tarih: 27.07.2010

Katılımcı Adı Soyadı: Rahim Mentese

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "+", olumsuz ise "-", etkisi olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi	Etkilen	
Hava kalitesi	Etkilenmez	
Diğer kirlenmeler	Açıklanabilir	
Toprak kalitesi	Etkilen	
Biyçeşitlilik	Etkilen	
İş kalitesi	Faydalar Sağlar	
Teknolojik Gelişim	—	
Geçim kaynakları	Etkilenmez	
Düşük maliyetli temiz enerjiye erişim	Olunur	
İnsan ve kurumsal kapasite	Etkilenmez	
İstihdam	Etkilenmez	
Yatırım ve ödeme dengeleri	Yanar Sağlar	
Teknoloji transferi ve teknolojik olarak kendine yetebilme	—	

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi:

Tarih:

Katılımcı Adı Soyadı: Necati Toktas

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "+", olumsuz ise "-", etkisi olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi		
Hava kalitesi		
Diğer kirlenmeler		
Toprak kalitesi		Bozulacak
Biyçeşitlilik		
İş kalitesi		Düşecek
Teknolojik Gelişim		Azaltacak
Geçim kaynakları		
Düşük maliyetli temiz enerjiye erişim		
İnsan ve kurumsal kapasite		
İstihdam		
Yatırım ve ödeme dengeleri		
Teknoloji transferi ve teknolojik olarak kendine yetebilme		



GOLD STANDARD PASSPORT

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi:

Tarih:

Katılımcı Adı Soyadı:

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "A", olumsuz ise "B", etkili olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi	2	
Hava kalitesi	1	
Diğer kirlenmeler	0	
Toprak kalitesi	1	
Biyçeşitlilik	1	
İş kalitesi	1	
Teknolojik Gelişim	1	
Geçim kaynakları	1	
Düşük maliyetli temiz enerjiye erişim	1	
İnsan ve kurumsal kapasite	1	
İstihdam	0	
Yatırım ve ödeme dengeleri	0	
Teknoloji transferi ve teknolojik olarak kendine yetebilme	1	

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi:

Tarih:

Katılımcı Adı Soyadı:

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "A", olumsuz ise "B", etkili olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi	0	
Hava kalitesi	0	
Diğer kirlenmeler	1	
Toprak kalitesi	1	
Biyçeşitlilik	1	
İş kalitesi	1	
Teknolojik Gelişim	1	
Geçim kaynakları	1	
Düşük maliyetli temiz enerjiye erişim	0	
İnsan ve kurumsal kapasite	1	
İstihdam	0	
Yatırım ve ödeme dengeleri	1	
Teknoloji transferi ve teknolojik olarak kendine yetebilme	1	



GOLD STANDARD PASSPORT

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi:

Tarih:

Katılımcı Adı Soyadı:

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "1", olumsuz ise "2", etkisi olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi	0	
Hava kalitesi	0	
Diğer kirlenimler	0	
Toprak kalitesi	—	
Biyçeşitlilik	—	
Iş kalitesi	—	
Teknolojik Gelişim	—	
Geçim kaynakları	—	
Düşük maliyetli temiz enerjiye erişim	0	
İnsan ve kurumsal kapasite	—	
İstihdam	—	
Yatırım ve ödeme dengeleri	—	
Teknoloji transferi ve teknolojik olarak kendine yetebilme	—	

SÜRDÜRÜLEBİLİRLİK ANKETİ

Proje İsmi: Zala regülasyonu

Tarih: 29.07.2010

Katılımcı Adı Soyadı: Sema Sarıbaş

Gold Standard Sürdürülebilirlik Göstergeleri	Projenin olumlu etkileri olacağını düşünüyorsanız "1", olumsuz ise "2", etkisi olmayacağını düşünüyorsanız "0" yazınız	Açıklama
Su kalitesi		
Hava kalitesi		
Diğer kirlenimler		
Toprak kalitesi		
Biyçeşitlilik		
Iş kalitesi		
Teknolojik Gelişim		
Geçim kaynakları		
Düşük maliyetli temiz enerjiye erişim		
İnsan ve kurumsal kapasite		
İstihdam		
Yatırım ve ödeme dengeleri		
Teknoloji transferi ve teknolojik olarak kendine yetebilme		

Bu sorular cevaplanarak projenin olumlu etkileri olacağını düşünüyorsanız "1", olumsuz ise "2", etkisi olmayacağını düşünüyorsanız "0" yazınız.

Bu soruların cevaplanmasıyla projenin olumlu etkileri olacağını düşünüyorsanız "1", olumsuz ise "2", etkisi olmayacağını düşünüyorsanız "0" yazınız.

Bu soruların cevaplanmasıyla projenin olumlu etkileri olacağını düşünüyorsanız "1", olumsuz ise "2", etkisi olmayacağını düşünüyorsanız "0" yazınız.