

**ENVIRONMENTAL AND SOCIAL PERFORMANCE
ANNUAL MONITORING REPORT (AMR)**



Akfen Renewable Energy Co. Inc.
Turkey

IFC Project Number : 36772
EBRD Project Number : 47631



REPORTING PERIOD: 2017

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TABLE OF CONTENTS

AMR SECTION I.....	1
INTRODUCTION.....	1
AMR SECTION II.....	2
CLIENT’S REPRESENTATION STATEMENT BY SPONSOR AUTHORIZED REPRESENTATIVE.....	2
AMR SECTION III.....	3
SUMMARY OF KEY E&S ASPECTS DURING THE REPORTING PERIOD.....	3
PK1, PS1: Assessment and Management of Environmental and Social Risks and impacts.....	7
PS2, PK2. Labor and Working Conditions.....	16
OCCUPATIONAL HEALTH AND SAFETY.....	18
PS3, PR3 Resource Efficiency and Pollution Prevention.....	21
PS4, PK4 - Community Health, Safety and Security.....	38
PS5, PK5 - Land Acquisition and Involuntary Resettlement.....	40
DISPLACEMENT INDICATORS.....	42
PS6, PK6 – Biodiversity Conservation and Sustainable Management of Living Natural Resources.....	46
PS8 – Cultural Heritage.....	47
AMR SECTION IV.....	48
NEW DEVELOPMENT.....	48
PROJECTS COMPLETED OR IN PROGRESS DURING THE REPORTING PERIOD.....	53
SELECTION / ELECTION STUDIES BEFORE PROJECT DEVELOPMENT.....	54
AMR SECTION V.....	55
ACTION PLAN STATUS AND UPDATE.....	55
AMR SECTION VI.....	83
DEVIATIONS/NON-COMPLIANCES.....	83

TABLES

Table 1- Akfen Projects	5
Table 2- Management Systems.....	7
Table 3- Organization Chart	8
Table 4- Trainings in 2016 Year	9
Table 5-Accident Factors.....	11
Table 6- Complaints	13
Table 7-Complaint Disputes	15
Table 8- Workforce Information	17
Table 9- Occupational Hygiene Measurements.....	19
Table 10- Occupational Health and Safety Indicators.....	20
Table 11- Significant Incidents	21
Table 12- Annual Energy and Water Consumption Figures for 2016	23
Table 13- Greenhouse gas emissions and greenhouse gas reduction values.....	34
Table 14- VCS Carbon Credit Amounts	35
Table 15- Amount of Total Waste in 2016.....	36
Table 16- List of Used Chemicals	37
Table 17- Community Health and Safety	39
Table 18- Acquisition of Land.....	41
Table 19- Economical Displacement	42
Table 20- Disputes Acquiring Land.....	45
Table 21- Biodiversity.....	46
Table 22- Deforestation	46
Table 23- Hunting of aquatic species	47
Table 24- Cultural Assets.....	47
Table 25- Current Projects	52
Table 26- Projects Completed or Continued During the Reporting Period	54
Table 27- Action Plan Status (ESAP).....	82
Table 28- Deviation/Non-Compliances	84

PHOTOGRAPHS

Photograph-1 Views from Kilavuzlu Dam and HEPP, Menzelet Dam and HEPP.....	6
Photograph-2 Images from trainings	10
Photograph-3 Images from Otluca HEPP “Home Schooling” Social Project.....	12

ABBREVIATIONS

AMR	:Annual Monitoring Report
CMS	:Current Monitoring Station
CSR	:Corporate and Social Responsibility
DSI	:State Hydrolic Works
EAR	:Ecosystem Assessment Report
EBRD	:European Bank For Reconstruction and Development
EHS	:Environment, Health and Safety
EHSS	:Environment, Health, Safety, Social
EMR	:Emergency Response
EMRA	:Energy Market Regulatory Authority
ESAP	:Environmental and Social Action Plan
ESIA	:Environmental and Social Impact Assessment
E&S	:Environment and Safety
ESMS	:Environmental Social Management System
FFE	:Fire Fighting Equipment
ICOLD	:International Commission On Large Dams
IFC	:International Finance Cooperation
LTIR	:Indicator that measures a companies Lost-Time Injury Rate and adjust for the number of hours a facility works
MSDS	:Material Safety Data Sheet
NGO	:Non-Governmental Organization
NTS	:Non-Technical Summary
PIF	:Project Information File
SEP	:Stakeholder Engagement Plan
TIKAV	:Turkey Human Resources Education And Health Foundation
TRCOLD	:Turkish Grand National Committee of International Large Dams Commission
TRIR	:Indicator that measures companies Total Recordable Injury Rate and adjust for the number of hours a facility works.

AMR SECTION I

INTRODUCTION

According to the Investment Agreement of IFC and EBRD, Akfen must prepare an Annual Monitoring Report (AMR) covering its projects, environmental and social (E&S) performance of its own facilities and operations. This document is organized according to IFC and EBRD's preferred format for E&S reporting. The template below can be integrated with the necessary annexes to ensure that all relevant information about the project is reported.

Contents:

- Project Information
- Client's Representation Statement by Sponsor authorized representative
- Summary of key E&S aspects during the Reporting Period
- New Development/ Corporate Financing
- Action Plan Status and Update
- Deviations/non-compliances

All transactions (inspection, training, documentation, reporting, etc.) within the scope of objective preparation of this activity report covering January 2017 – December 2017 period were carried out by Selin Construction Tourism Consulting Industry and Trade Limit Company as third party. Environmental and Social Management System Documents and Quality Management System practises were in progress in 2017. Environmental and Social Management System document was given in Annex-10 of AMR 2016

AMR SECTION II

CLIENT'S REPRESENTATION STATEMENT BY SPONSOR AUTHORIZED REPRESENTATIVE

I am İsmail Kürşat TEZKAN in my role of Assistant General Manager, I am İbrahim Süha GÜÇSAV in my role of General Manager and representing Akfen Company certify that

- a) The Project is in compliance with all applicable E & S Requirements as described in the investment contract and all actions required to be undertaken pursuant to the Environmental and Social Action Plan (ESAP) and any subsequent supplemental action plans with the exception made for those that have been disclosed in Section Six (VI) in this report.
- b) Beyond what is reported in this AMR for the current reporting period, in relation to the Project, to the best of my knowledge , after due inquiry, there are no:
 - Circumstances or occurrences that have given or would give rise to violations of E&S and Labor Law or E&S and labor claims;
 - Social unrest, local population disruption or negative NGO attention due to the project
 - Material social or environmental risks or issues in relation to the Project other than those identified by the E&S Assessment and the Environmental and Social Review Summary.
 - Existing or threatened complaint, order, directive, claim, citation or notice from any authority.
 - Any written communication from any person , in either case, concerning the Project's failure to comply with any matter covered by the Performance Standards;
 - Ongoing or threatened, strikes, slowdowns or work stoppages by employees of the obligor or any contractor or subcontractor with respect to the Project;
- c) All information contained in this AMR is true, complete and accurate in all respects at the time of submission and no such document or material omitted any information the omission of which would have made such document or material misleading.
- d) There have not been any new company activities (eg. expansions, construction works, etc.) that could generate adverse environmental effects. There have been no new ESIA studies, audits, or E&S action plans conducted by or on behalf of Akfen, with respect to any Environmental or Social standards/regulation/ applicable to the Project that IFC and EBRD has not been notified of.

Signature

27.12.2017

Date

İsmail Kürşat TEZKAN

İbrahim Süha GÜÇSAV

AMR SECTION III

SUMMARY OF KEY E&S ASPECTS DURING THE REPORTING PERIOD

This section aims to identify the key E&S progress/activities/incidents during the reporting period (include Summary of Key Findings for the Reporting Period e.g. non-compliances, significant incidents¹, social unrest, significant improvements/initiatives regarding E&S performance etc.)

Project Status

Select the current status of the project and provide a brief description of the developments in relation to the project over the reporting period. For example, construction has been started or completed, has new equipment been installed, has production capacity increased, is the investment in new projects considered? Please use annexes as needed.

Akfen's project asset is given in the following table.

AKFEN PROJECTS								
No	Project Name	Project Status						
		Design	Construction	Capacity increase	Operation	Closure	Other	Statement
1	OTLUCA HEPP				✓			
2	SIRMA HEPP				✓			
3	SEKİYAKA II HEPP				✓			
4	DEMİRCİLER HEPP				✓			
5	KAVAKÇALI HEPP				✓			
6	GELİNKAYA HEPP				✓			
7	SARAÇBENDİ HEPP				✓			
8	ÇAMLICA III HEPP				✓			
9	DORUK HEPP				✓			
10	YAĞMUR HEPP				✓			

¹ Examples of significant incidents follow. Chemical and/or hydrocarbon materials spills; fire, explosion or unplanned releases, including during transportation; ecological damage/destruction; local population impact, complaint or protest; failure of emissions or effluent treatment; legal/administrative notice of violation; penalties, fines, or increase in pollution charges; negative media attention; chance cultural finds; labor unrest or disputes; local community concerns.

11	DOĞANÇAY HEPP				✓			
12	SOLENTEGRE SPP				✓			
UNLICENSED PROJECTS								
13	DENİZLİ SPP PROJECTS				✓			
14	SOLENTEGRE (0,5MW) SPP				✓			Construction was completed in 2017 and taken into operation
15	YAYSUN (0,5MW) SPP				✓			Construction was completed in 2017 and taken into operation
16	AKFEN RENEWABLE SPP PROJECTS				✓			Construction was completed in 2017 and taken into operation
17	AMASYA SPP PROJECTS				✓			Construction was completed in 2017 and taken into operation
18	TOKAT SPP PROJECTS				✓			Construction was completed in 2017 and taken into operation.
PROJECTS UNDER CONSTRUCTION								
19	ÇALIKOBASI HEPP		✓		✓			Construction activities are continuing.
20	ÇİÇEKLİ HEPP		✓					Construction activities are continuing.
FOLLOWING PROJECTS HAVE PRELIMINARY LICENSE								
21	OMICRON ERCİŞ SPP*						✓	There is a preliminary license and studies are ongoing to obtain a production license
22	ENGİL 207 SPP *						✓	There is a preliminary license and studies are ongoing to obtain a production license

23	ENGİL 208 SPP						✓	There is a preliminary license and studies are ongoing to obtain a production license
24	FIRINCI SPP						✓	There is a preliminary license and studies are ongoing to obtain a license
25	MESE SPP						✓	There is a preliminary license and studies are ongoing to obtain a license
FOLLOWING PROJECTS HAVE PRODUCTION LICENSE								
26	MT SPP						✓	Pre-construction works are going on.
27	YAYSUN SPP						✓	Pre-construction works are going on
28	HASANOBA WPP						✓	Pre-construction works are going on
29	KOCALAR WPP						✓	Pre-construction works are going on
30	ÜÇPINAR WPP						✓	Pre-construction works are going on
31	DENİZLİ WPP						✓	Pre-construction works are going on

*Applications were done to EMRA for relocation of Omicron Erciş SPP & Engil 207 SPP and works are going on. It is aimed to carry the project area to a location close to other 3 projects having 20 MW installed capacity located in Edremit District of Van Province and make use of same ETL

Table 1- Akfen Projects

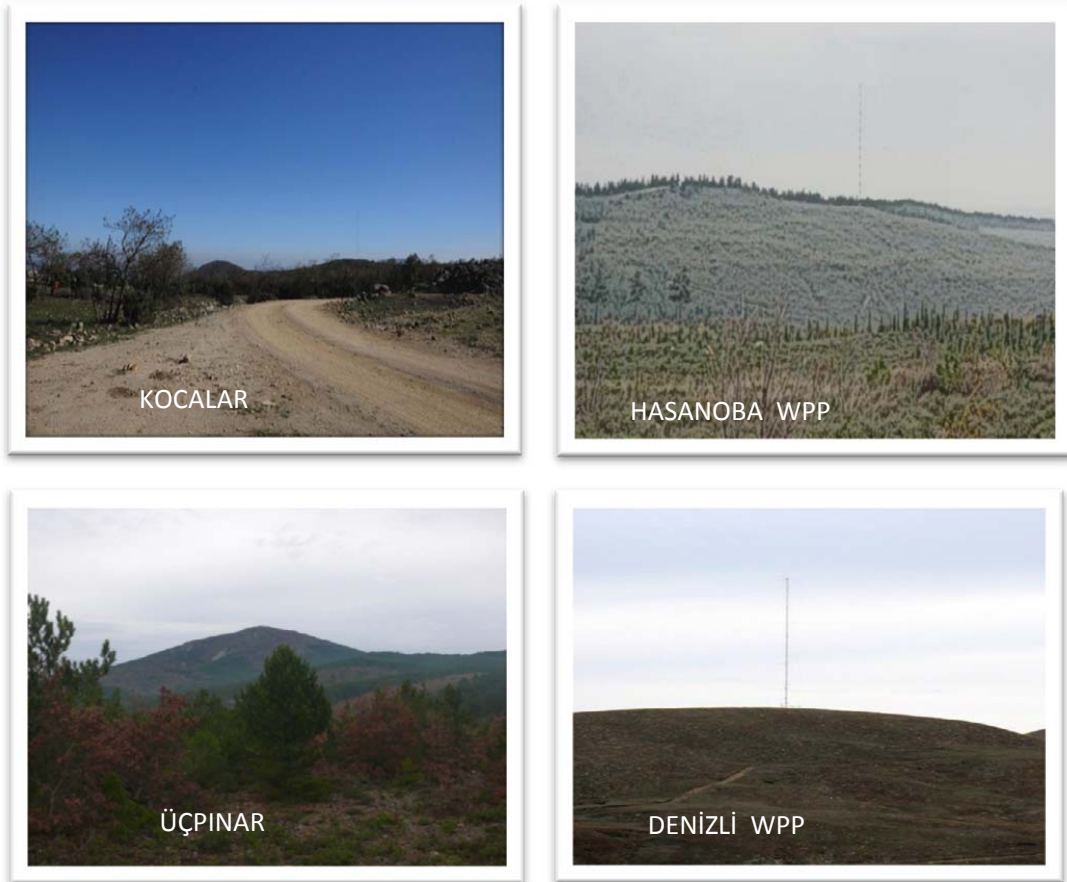
The tender for Menzelet Dam and HEPP and Kalvuzlu Dam and HEPP projects was canceled and for this reason these two projects were not included in 2017 project list of Akfen. EIA process of Çatak HEPP was ended by the decision of Akfen and this investment was canceled. On the otherhand construction of

Amasya SPP projects ,Tokat SPP projects, Solentrgre (0,5 MW) SPP and Yaysun (0,5 MW) SPP projects were completed and they started to operate.

New investment under development? Yes No

Please provide details in section IV of this AMR report.

,Four wind power plant projects were bought, as new investment in 2017. These are Kocalar WPP , Hasanoba WPP , Üçpınar WPP and Denizli WPP projects. All prejects have project indroduction files, eko-system evaluation reports, noise reports and landscape restoration plans. An environmental, social and health and safety assessment was done for these 4 projects based on the above mentiones reports and plans which were submitted to IFC and EBRD.



Photograph-1 Views from Kocalar WPP, Hasanoba WPP, Üçpınar WPP and Denizli WPP project sites

PK1, PS1: ASSESSMENT AND MANAGEMENT OF ENVIRONMENTAL AND SOCIAL RISKS AND IMPACTS

Please provide details on the status of the following voluntary management systems certification schemes at your facilities, provide details below. Please complete separate tables as needed.

	Not being considered	Future consideration	Planning to implement	Currently implementing	Successfully implemented	Date of certification/ re-certification
ISO 9001 - Quality Management System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	25/01/2017
ISO 14001 – Environment Management System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	25/01/2017
OHSAS 18001 – Occupational Health and Safety Management System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	01/02/2017
ISO 50001 - Energy Management System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	01/02/2017

Table 2- Management Systems

ISO 9001 Quality Management System, ISO 14001 Environmental Management System, OHSAS 18001 Occupational Health and Safety Management System and ISO 50001 Energy Management System implementation are going on in Akfen Head Office and at plants in operation. At construction sites of our HEPP projects, contractors performance is under control according to our Quality System.

Describe any changes in the organizational structure to manage environment, health and safety, labor and social aspects during the reporting period. Describe number of personnel in charge of E&S and OHS issues.

There had been no changes in our environmental and OHS organization in 2017. Company organization chart includes 21 staff who are competent and experienced in their fields to make and control environmental, social, occupational health and safety (OHS) applications in our head office, operational power plants and construction sites. Akfen’s environmental, social and OHS organization structure is given below. In head office, there are 4 specialist personnel for environment, social and OHS applications. Environment and OHS Manager is responsible for head office applications and supervision of operations by Environmental Expert, OHS Expert and Public Relations Specialist.

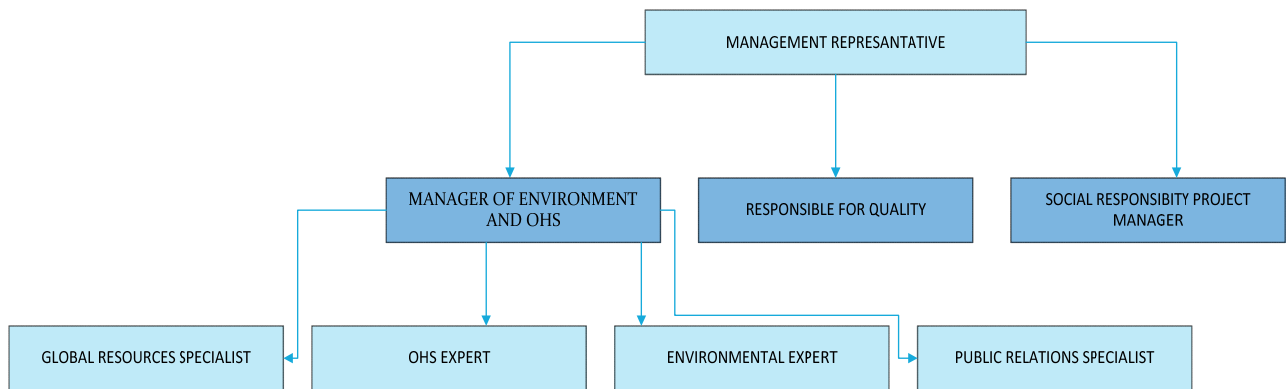


Table 3- Organization Chart

In our two projects under construction, there are 6 specialist personnel, who are responsible for the environmental, social and OHS issues in the area. Each of our 16 operating plants has a staff member responsible for environmental, social and OHS implementation. Some plants are very near to each other and in that case one expert is responsible for 2-3 plants. A total of 11 staff members were assigned to these matters in the plants.

Describe the level of environmental, social and health and safety training provided to staff. Provide annex with list of topics, hours of training and number of participants.

All personnel working in Akfen have been given general awareness trainings in environmental social, health and safety issues in 2017. Apart from this, special trainings have been given in the fields of the applications and related security precautions in accordance with the characteristics of the work they are doing. Training topics are primarily determined by national legislation requirements and IFC-EBRD standards. In addition, ISO 9001 Quality, ISO 14001 Environment, ISO 50001 Energy and OHSAS Occupational Health and Safety Management Systems were introduced and implemented. The environmental, social, health and safety trainings are given to the staffs in the Akfen Center, operating plants and the construction sites in the context of the table given in Annex 1, where training records are also presented.

The following table summarizes the training subjects, total duration and the number of personnel involved in all our operating plants and construction sites in 2016.

AKFEN RENEWABLE ENERGY YEAR 2017 TRAININGS				
NO	PROJECT NAME	ENVIRONMENT AND OHS TRAINING SUBJECTS (Occupational Health and Safety Trainings, Electrical Hazards Training, Emergency Response Training and Training for EMR Teams, Environmental Awareness Training, etc.)	TRAINING DURATION (minutes)	NUMBER OF STAFF PARTICIPATING IN TRAINING (average)
1	OTLUCA HEPP		1470	19
2	SIRMA HEPP		1020	8
3	SEKIYAKA HEPP		1450	8
4	DEMİRCİLER HEPP		1700	10
5	KAVAKÇALI HEPP		660	11
6	GELİNKAYA HEPP		1500	6
7	SARAÇBENDİ HEPP		1590	14
8	ÇAMLICA III HEPP		1590	13
9	DORUK HEPP		1470	11
10	YAĞMUR HEPP		1575	11
11	DOĞANÇAY HEPP		1290	19
12	SOLENTEGRE SPP		1320	4
13	YAYSUN SPP		660	4
14	DENİZLİ SPP PROJECTS		1860	4
15	AMASYA SPP PROJECTS		2440	12
16	TOKAT SPP PROJECTS		1080	14
17	ÇALIKOBASI HEPP		1320	6
18	ÇİÇEKLİ HEPP		2880	8
19	AKFEN HEAD OFFICE		480	18

Table 4- Trainings in 2017



Photograph-2 Images from trainings

During the reporting period, are you aware of any events that may have caused damage; brought about injuries or fatalities or other health problems; attracted the attention of outside parties; affected project labor or adjacent populations; affected cultural property; or created liabilities for your company?

Yes No
Provide details

In the year 2017, the following accidents were happened and recorded. The accident report are given in Annex-2.

No	Operation/Site Name of the accident	Accident Date	Accident location (Is it inside or outside the operation/site?)	Accidental Loss			
				Number of people living with injuries / health problems	Number of fatality	Property damage	Impacts on Cultural Assets
1	ÇİÇEKLİ HEPP Construction site	03.06.2017	At dump site (truck overturned)	--	--	--	--
2	ÇİÇEKLİ HEPP Construction site	04.06.2017	In site at living area (acid leaped at drivers eye while cleaning concrete mixer)	1*	--	--	--
3	ÇİÇEKLİ HEPP Construction site	25.07.2017	In Site (a vehicle hit the wall to stop, because fail of breaks)	--	--	--	--
4	ÇİÇEKLİ HEPP Construction site	27.07.2017	In tunnel (a worker lost consciousness while making velding in the tunnel)	1**	--	--	--

*2days were lost in this accident

** No days lost in this accident

Table 5-Accident Data

Describe any ongoing public consultation and disclosure, liaison with non-governmental organizations (NGOs), civil society, local communities or public relations efforts on environmental and social aspects.

Company web page (www.akfenren.com.tr) was prepared in 2017 . Non-technical summaries are published on the web page that contain information about our plants, constructions, and all our projects under pre-construction work (including new WPP projects). Project introductory brochures were prepared for Amasya and Tokat SPP projects (given in Annex 5)and distributed to local people during public information meeting.



Photograph-3 Image from public information meeting where project brochure was distributed

Project introductory brochures will be distributed to the local people before construction starts and local will be informed about the project activities. The contact information of the public relations specialist, who can be contacted for each project, and how all potential stakeholders can make grievances are explained in detail on the web page. Stakeholder Participation Plans for new WPP projects were also prepared and published on the web page.

Establishing good relationships and exchanging information with our stakeholders at every stage of the project process is our main objective and goodwill gesture .

We also provide social aids for the villagers in our project locations that will benefit the village legal entity. Within the scope of the social responsibility projects planned together with TİKAV in Akfen Holding, we shared with our stakeholders and passed the dream of “Education at Home Project”. This project was applied at Otluca HEPP, Kavakçalı HEPP, Sırma HEPP, Sekiyaka HEPP, Demirciler HEPP, Çamlıca HEPP, Yağmur HEPP, Gelinkaya HEPP, Doruk HEPP, Denizli SPP AND Yaysun SPP. By the end of 2017, it will be applied at 15 plants.



Photograph-3 Images from “Education at Home Project” Social Project

Briefly describe new initiatives implemented during the reporting period or additional managerial efforts on E&S aspects (e.g. Energy/water savings, sustainability report, waste minimization, etc)

Within the framework of the ISO 14001 Environmental Management System and ISO 50001 Energy Efficiency Management System studies, the policies committed by Akfen management in 2017, energy and water consumption in Akfen Head office, plants and construction sites were recorded. Measures and actions have been planned in consideration of consumption trends for saving and efficient use within the scope of Quality Management Systems. At the beginning of 2018 a meeting will be done for assessment of energy and water consumption performance and new targets will be determined for next year. Implementation of waste disposal, storage, transportation and disposal in accordance with national legislation is going on within the scope of waste management. Records of waste quantities, transport and disposal records were kept and archived. Personnel are aware of these issues with the trainings given in the scope of environmental protection.

The Eco-System Assessment Reports for HEPPs were prepared previously. By taking the measurements mentioned in these reports, necessary precautions are taken and applications are made in order to ensure the sustainability at the ecosystems of the downstream and upstream of the HEPPs. Ecosystem Assessment Reports (including ornithological study), Landscape Restoration Plans and Noise Reports exit For new WPP projects. At the same time, the SAP program was introduced for accounting-finance issues in order to make professional budget-reporting. ID-MACRO program was also introduced with regard to documentation follow and archive systems. Thus, documentation records are systematically kept in electronic form.

Briefly describe the number and type of comments and/or grievances received by the Company in relation to E&S Issues? How many have been resolved and how many are pending? (Please attach a table with grievance redress registry)

The summary of the complaints received during this period and the complaints regarding the cases are given in the following table.

Type of complaints in 2017	Number of Complaints	Number of Complaints solved	*Complaints that can not be closed
Damage to the fields due to overflowing water during the periods of fame in Sakarya River.	10	1	9
Damage to the fields due to project activities	1	1	0
Land aqcusition disputes *	5	5	0
TOTAL	6	6	0
Type of complaints in 2016	Number of Complaints	Number of Complaints solved	*Complaints that can not be closed
Damage to the fields due to project activities	2	1	1
Land aqcusition disputes **	6	0	6
TOTAL	8	1	7

* Litigation and arbitration agreement negotiations are ongoing

**Court cases are ongoing

Table 6- Complaints

The complaints given in the table are explained in detail in the following section.

Have ESIA's and or E&S Due Diligence conducted during the reporting period? (Please provide copies)

WPP projects bought in 2017 have Project Introduction Files, Eco-system Assessment Reports and Noise Reports prepared. These reports are given in Annex-3.

Using the Table provided below list any internal and/or external grievance or dispute (include court action) received during the reporting period, describe how it was addressed and its current status.

Grievance/ Dispute Date	Complainant	Issue	Solved (Y / N)	Action taken	Date Closed
02.05.2016	Ahmet Hamdi ŞENOL	Litigation for the filed compensation of damages incurred in the property owned by the plaintiff	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/277)	Continues
16.06.2016	Zeynep Emine ÖZKAYNAK	Damage to the owner's land in the flood incident at Doğançay HEPP	N	The land was expropriated with the consent of the owner	17.08.2017
11.07.2016	Ayşe KÖSEOĞLU and others	Litigation for the filed compensation of damages occurred in the property owned by the plaintiff	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/448)	Continues
11.07.2016	Ayşe KÖSEOĞLU and others	Litigation for the filed compensation of damages occurred in the property owned by the plaintiff	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/448)	Continues
26.07.2016	Hatice ARSLAN	In Doğançay HEPP has been inundated with water during the periods when the lake water has risen and the land has become unusable	N	In order to expropriate the land, an agreement was reached with the complainant, and negotiations continue. However, a positive result has not yet been obtained	Have not closed yet
01.12.2016	Salih ÇAKMAK	Litigation for the filed compensation of damages occurred in the property owned by the plaintiff	N	The case was opened (Geyve civil court of first instance) 2016/725)	Continues

01.12.2016	Dursun Ali ÇAKMAK	Litigation for the filed compensation of damages occurred in the property owned by the plaintiff	N	The case was opened (Geyve civil court of first instance 2016/724)	Continues
01.12.2016	Lütfü GÜNEY	Litigation for the filed compensation of damages occurred in the property owned by the plaintiff	N	The case was opened (Geyve civil court of first instance 2016/726)	Continues
01.12.2016	Şaban ÇAKMAK	Litigation for the filed compensation of damages occurred in the property owned by the plaintiff	N	The case was opened (Geyve civil court of first instance 2016/727)	Continues
24.01.2017	İlhan YILDIRIM	In Doğançay HEPP, as a result of the overflow of the water in the lake area, the field damaged and agricultural activities were ceased	N	Determine the loss of landlord's loss. It will go to the deal.	Have not closed yet
11.07.2017	Sadullah KURU	His land was effected due to activities of Boğuntu Regulator and its lake. The owner wanted his land to be expropriated.	Y	The land was expropriated with the consent of the owner	20.10.2017
11.07.2017	Yusuf KURU	His land was effected due to activities of Boğuntu Regulator and its lake. The owner wanted his land to be expropriated.	Y	The land was expropriated with the consent of the owner	20.10.2017
11.07.2017	Mustafa KURU	His land was effected due to activities of Boğuntu Regulator and its lake. The owner wanted his land to be expropriated.	Y	The land was expropriated with the consent of the owner	20.10.2017
01.08.2017	Züriye ÖREN	In Doğançay HEPP has been inundated with water during the periods when the lake water has risen and the land has become unusable	Y	The land was expropriated with the consent of the owner	08.08.2017

Table 7-Complaints and Litigations

PS2, PK2. LABOR AND WORKING CONDITIONS

Have you changed your Human Resources (HR) policies, procedures or working conditions during the reporting period?

Yes No

Provide details

Within the scope of ISO 9001 Quality Management System studies in 2017, established Akfen Human Resources Procedure has been implemented. Job application and employment procedures were published in web site and career, job opportunities are announced .

The main objectives of our HR implementations are making corporate objectives same as personal objectives, increasing performance by establishing a dynamic, open for improvement and an innovative work environment. By this way, a personnel profile had been created having a high social responsibility awareness, a sense to use time and resources accurately, a high motivation for success and ready to innovations and changes.

HR practices done in 2017 are summarized as follows;

January 2017 : HR implementations started

July 2017 : Personnel performance assessments were made by managers and wage concessions were made

August 2017 : Promotions were done according to performance assessments

New 24 personnel were employed for vacant positions. Training needs were determined and vocational training for some personnel (according to legislation) was provided. Dinners were organized to increase motivation as activities for 41st establishment anniversary of Akfen. Training was provided to personnel for use of SAP and ERP programs. As a routine work personnel files were prepared and wage-tax operations were done according to Social Security and Labor Legislation .

Provide the following information regarding your workforce. Please add rows as needed :

Site	Number of employees who are directly employed	Number of female employees directly employed	Number of employees who are terminated	Number of hired employees	Number of contractor employees ²
AKFEN RENEWABLE HEAD OFFICE	39	11	5	None	None
AKFEN ELECTRICITY WHOLESALE	5	2	--	None	None
OTLUCA HEPP	22	None	None	None	None
SIRMA HEPP	8	None	None	None	None
SEKİYAKA HEPP	8	None	None	None	None

² Contractors who perform the essential functions for the Company at the Company's premises or on behalf of the Company

DEMİRCİLER HEPP	9	None	3	None	None
KAVAKÇALI HEPP	12	None	None	None	None
GELİNKAYA HEPP	7	None	1	None	None
SARAÇBENDİ HEPP	12	None	4	None	None
ÇAMLICA III HEPP	14	None	1	None	None
DORUK HEPP	14	None	1	None	None
YAĞMUR HEPP	12	None	None	None	None
DOĞANÇAY I-II HEPP	21	2	4	None	None
YAYSUN SPP	4	None	None	None	None
DENİZLİ SPP PROJECTS	4	None	None	None	None
ÇALIKOBASI HEPP (under construction)	7	None	2	None	71
ÇİÇEKLİ HEPP (under construction)	8	None	None	None	36
AMASYA SPP PROJECTS	None	None	None	None	4
TOKAT SPP PROJECTS	None	None	None	None	4
TOTAL	206	15	21	None	107

Table 8- Workforce Information

OCCUPATIONAL HEALTH AND SAFETY

Describe the main changes implemented in terms of Occupational Health and Safety (OHS) during the reporting period, e.g. identification of hazards, substitution of chemicals, new controls, etc.

Under the national legislation, Hazard Identification and Risk Assessment are mandatory for all workplaces. Within this scope, hazard identification and risk assessment have been carried out in Akfen head office, operating power plants, and constructions. With the applied OHSAS Occupational Health and Safety Management System, hazard identification and risk assessments are systematically controlled and revised, necessary measures are taken and responsibilities are determined.

Chemical use is very low since Company's plants use renewable energy sources. Only hydraulic oil and grease are used to lubricate the gears and moving parts. For this reason, there are only hydraulic oil, grease, contaminated gloves, rag and contaminated wastes in the scope of hazardous wastes including maintenance and repair activities. The material safety data sheets (MSDS) belonging to the used chemicals are kept in the power plants. Storage of flammable properties, exposure and disposal of wastes, etc. are in compliance with the provisions of the Material Safety Data Sheet. Within the scope of ISO 14001 Environmental Management System and OHSAS 18001 Occupational Health and Safety Management System; starting with the purchase; training and packaging, attention to dangerous goods, personnel who use and storage, information on the PPE to be used, emergency measures, waste disposal, etc. are provided and necessary records are kept. Compliance with the instructions is checked by periodic inspections. Control forms established under OHSAS are used in inspections and even if inspectors are different, inspections are made with the same point of view.

Provide the workplace monitoring data, including thermal comfort (temperature, humidity), noise, lightning during this reporting period.

Company has completed the work hygiene measurements in all the operating plants in 2017. Measurement report dates at each plant are given in table below. Reports are given in Annex-4. Measurement results were within the legal limits determined by related legislation.

A list of measurements made before the year 2016 is given below. Points measured are indicated on the plans in the reports. The reports of the measurements are given in Annex 4.

Fields	Occupational Hygiene Measurements (Report Dates)			
	Thermal Comfort Measurement	Noise Exposure Measurement	Lighting Measurement	Indoor Noise Measurement
Akfen Head Office	5.10.2017	5.10.2017	5.10.2017	5.10.2017
Sırma HEPP	1.08.2017	1.08.2017	1.08.2017	1.08.2017
Demirciler HEPP*	6.02.2017	6.02.2017	6.02.2017	6.02.2017
Doğançay I- II HEPP	1.07.2017 1.07.2017	1.07.2017 1.07.2017	1.07.2017 1.07.2017	1.07.2017 1.07.2017
Doruk HEPP	1.08.2017	1.08.2017	1.08.2017	1.08.2017
Gelinkaya HEPP	1.08.2017	1.08.2017	1.08.2017	1.08.2017

Kavakçalı HEPP*	6.02.2017	6.02.2017	6.02.2017	6.02.2017
Otluca HEPP	4.07.2017 4.07.2017	4.07.2017 4.07.2017	4.07.2017 4.07.2017	4.07.2017 4.07.2017
Saraçbendi HEPP	1.08.2017	1.08.2017	1.08.2017	1.08.2017
Sekiyaka HEPP*	6.02.2017	6.02.2017	6.02.2017	6.02.2017
Yağmur HEPP	1.08.2017	1.08.2017	1.08.2017	1.08.2017
Denizli SPP Projects*	02.02.2017	02.02.2017	02.02.2017	02.02.2017
Yaysun SPP	3.07.2017	3.07.2017	3.07.2017	3.07.2017
Solentegre SPP	1.08.2017	1.08.2017	1.08.2017	1.08.2017
Çamlıca III HEPP	3.07.2017	3.07.2017	3.07.2017	3.07.2017
Çiçekli HEPP Construction Site	1.08.2017	1.08.2017	1.08.2017	1.08.2017
Çalıkobası HEPP Construction Site	1.08.2017	1.08.2017	1.08.2017	1.08.2017
Amasya SPP Projects	8.07.2017	8.07.2017	8.07.2017	8.07.2017

*The measurement report were given in AMR 2016.

Table 9- Occupational Hygiene Measurements

Occupational Health and Safety Indicators . Please provide separate tables as needed for each site and at corporate level.

Report Total numbers for each parameter	This reporting period		Reporting period- Previous year	
	Direct employees	Contractor employees	Direct employees	Contractor employees
Total number of Workers	206	107	212	237
Total man-hours worked - Annual	508 410	337 263	502 976	570 639
Total number of lost time occupational injuries	NONE	1	NONE	NONE
Total number of lost workdays due to injuries	NONE	2	NONE	NONE
Number of fatalities	NONE	NONE	NONE	NONE

Provide details for the non-fatal injuries during this reporting period

Company or contractor?	Total lost workday	Explanation of the injury 3	Reason of accident	Corrective measurements to prevent reoccurrence
Contractor's personnel (Serkan Kiraz) (03.06.2017)	2	At Çiçekli HEPP construction site, the driver of concrete mixer wanted to clean the mixer by using acidic pressurized water and water leaped to his right eye.	Careless action of driver while using a chemical and not using any PPE	Driver was informed about hazards of using chemicals, cleaning a concrete mixer and necessity of using proper PPE by training
Contractor's personnel (Vedat Ada) (21.07.2017)	none	At Çiçekli HEPP construction site, a worker while welding insulation material in the tunnel was exposed to excessive smoke and he lost consciousness when he left the tunnel	Ventilation in the tunnel was poor and gas measurement was not made	Gas measurements were done periodically and records were kept. A sign showing kind of works in the tunnel was posted at the entrance of tunnel. A training about hazards of working in a tunnel was given to workers

Table 10- Occupational Health and Safety Indicators

Describe in detail fatalities and vehicle accidents, including corrective measures (provide copies of OHS investigation and respective corrective plan).

The accident reports are presented in Annex-2.

Significant Incidents

There were no fatalities caused by accidents in 2017. 2 vehicle accidents happened, there were no injuries, but only material damage.

Date of incident	Type of incident	Brief description of incident	Fatalities? (Y/N)	No of fatalities	Preventive measures taken after the incident
03.06.2017	Vehicle accident (overturning of trailer)	At Çiçekli HEPP construction site, while a truck was dumping waste	N	none	The contractor was warned about not to do overloading,

3 Lost work days are the number of work days (consecutive or not) during which the worker is unable to perform due to injury or illness after the injury or the worker's injury after the injury starts or is restricted to restricted occupational activity.

		soil , the boom was broken and the trailer was overturned at dump site			loading truck according to their capacities, make periodical repair and maintenance on time and keep maintenance records.
25.07.2017	Vehicle accident (due to break failure, vehicle hit the wall to be able to stop)	At Çiçekli HEPP construction site , A vehicle had break failure on the road between the site and tunnel. It could be stopped by hitting the wall.	N	none	The contractor was warned about making periodical repair and maintenance on time and keep maintenance records. Drivers were also trained how to check their vehicles before each trip.

Table 11- Significant Incidents

PS3, PR3 RESOURCE EFFICIENCY AND POLLUTION PREVENTION

Provide the following environmental monitoring data for this reporting period. If you already have all the data requested available in another format, this can be submitted instead. Please provide a scaled facility map showing the precise locations of all monitoring points.

Ambient noise:

Noise exposure measurements were made at operating sites and Akfen Head Office and they are given in Table.9. Measurements will be repeated in periods given in related legislations.

Ambient air quality:

Air quality measurements were made at operating sites and Akfen Head Office and they are given in Table.9. Measurements will be repeated in periods given in related legislations.

Liquid effluent discharges:

There is no need to make environmental noise and air quality (dust measurement) at our operating renewable energy plants according to our national legislation. There is no wastewater treatment plant

because of the small number of employees. All facilities have a leakproof septic tanks. Since there is no discharge of liquid waste, there is no need to make measurements for discharging conditions in the plants. Wastewater analysis is to be done in construction sites only. But Çiçekli HEPP and Çalıkobası HEPP constructions are about to be completed and concrete batching plants were dismantled in 2017. For this reason there were no need to make waste water analysis .

Resources and Energy Consumption:

The energy sources and consumption quantities used in the power plants in operation and construction sites are given in the Energy and Water Management table below.

Consumption analysis were made according to our Energy Management System. Water and energy consumptions were recorded and targets were defined to increase efficiency. Works done in Yağmur HEPP is given as an example in Annex-15.

If any of the EHS guidelines or local regulatory limits are exceeded please explain the cause and, if appropriate, describe the planned corrective actions to prevent re-occurrence.

It was observed in measurements that no limits were exceeded.

Energy and Water Management (please add cloumns as needed):

UTILITY TYPE	ENERGY AND WATER CONSUMPTION AMOUNT IN 2016					
	Electricity Production	Electricity Consumption	Natural Gas	Diesel	Other Fuel (specify)	Water
UNITS	MW/hr	MW/hr	m ³	lt	lt	m ³
PROJECTS						
OTLUCA HEPP	149 730	374	none	13 920	None	70
SIRMA HEPP	11 378	103	none	3 486	None	260
SEKİYAKA HEPP	12 480	135	none	2 158	None	58
DEMİRCİLER HEPP	14 947	210	none	2 822	None	65
KAVAKÇALI HEPP	21 640	108	none	2 739	None	29
GELİNKAYA HEPP	6 795	133	none	1 571	None	275
SARAÇBENDİ HEPP	40 120	219	none	1 130	None	160
ÇAMLICA III HEPP	26 224	188	None	3 105	None	170
DORUK HEPP	67 500	385	None	8 450	None	170
YAĞMUR HEPP	20 630	102	None	4 560	None	57
DOĞANÇAY I-II HEPP	86 526	385	None	6 750	None	65
SOLENTGRE SPP (started to produce nergy in October)	14 861	122	None	240	None	6

YAYSUN SPP	994	19	None	240	None	9
DENİZLİ SPP PROJECTS	12 611	5	None	230	None	10
AMASYA SPP PROJECTS	4 045	30	None	240	None	23
TOKAT SPP PROJECTS	1 243	13	None	360	None	19
AKFEN RENEWABLE SPP PROJECTS	250	0	None	120	None	2
ÇALIKOBASI HEPP (Plant No.1 started to operate while construction of other plant is going on)	3 462	8 083	None	551 312	None	2 150
ÇİÇEKLİ HEPP	Under Construction	358	None	44 500	None	2 500
AKFEN HEAD OFFICE	None	60	5 400	4 644	None	2 409
TOTAL	495 213	2762	5 400	625 382	None	8642

Table 12- Annual Energy and Water Consumption Figures for 2017

Greenhouse Gases: Please fill in the table below for each site and institutional level

All electricity production plants of Akfen are operating with renewable energy. Water and solar energy are used. For this reason, there is no direct CO2 emission related to production. There is only indirect CO2 production, because of the generator operation in the power plants, the use of cars in transportation and the use of energy for lighting and heating in the plant. The values of greenhouse gas emissions and greenhouse gas reductions calculated for each plant are given below.

OTLUCA HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	299 tCO ₂	* Use of cars	5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	149 730,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	105 260			
Total CO ₂ reduction TCO ₂	104 961			

SIRMA HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	37 tCO ₂	* Generator Usage * Use of passenger cars	5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator, • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	11 378			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	7 998,73			
Total CO ₂ reduction TCO ₂	7 961,93			

SEKİYAKA HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	101,59 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator, • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	12 480			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	8 773,44			
Total CO ₂ reduction TCO ₂	8 671,85			

DEMİRCİLER HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	156,37 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	14 947			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	10 507,74			
Total CO ₂ reduction TCO ₂	10 351,37			

KAVAKÇALI HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	84,40 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars
Total production (annual total electricity generation MW / h)	21 640			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	15 212,92			
Total CO ₂ reduction TCO ₂	15 128,52			

GELİNKAYA HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	97,54 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	6 795			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	4 776,89			
Total CO ₂ reduction TCO ₂	4 679,35			

SARAÇBENDİ HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	156,86 tCO ₂	* Generator Usage * Use of passenger cars	5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO2 emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	40 120			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	28 204,36			
Total CO ₂ reduction TCO ₂	28 047,50			

ÇAMLICA III HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	140,14 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO2 emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	26 224			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	18 435,47			
Total CO ₂ reduction TCO ₂	18 295,33			

DORUK HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	292,37 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	67 500			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	47 452,50			
Total CO ₂ reduction TCO ₂	47 160,13			

YAĞMUR HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	83,42 tCO ₂	* Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines.
Total production (annual total electricity generation MW / h)	20 630			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	14 502,89			
Total CO ₂ reduction TCO ₂	14 419,47			

DOĞANÇAY HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	295,03 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	86 526			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	60 827,68			
Total CO ₂ reduction TCO ₂	60 532,75			

SOLENTEGRE SPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO ₂ emission intensity	---			
Indirect CO ₂ emission intensity	85,38 tCO ₂	*Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO₂ emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	14 861			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	10 447,78			
Total CO ₂ reduction TCO ₂	10 361,52			

YAYSUN SPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	13,97 tCO ₂	Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines,
Total production (annual total electricity generation MW / h)	994			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	698,78			
Total CO2 reduction TCO ₂	684,81			

DENİZLİ SPP PROJECTS	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	77,95 tCO ₂	* Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines,
Total production (annual total electricity generation MW / h)	12 388			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	8 709,07			
Total CO2 reduction TCO ₂	8 631,13			

AMASYA SPP PROJECTS	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	0,62 tCO ₂	* Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines,
Total production (annual total electricity generation MW / h)	4 045			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	2 843,64			
Total CO2 reduction TCO ₂	2 843,02			

TOKAT SPP PROJECTS	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	0,93 tCO ₂	* Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines,
Total production (annual total electricity generation MW / h)	1 243			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	873,83			
Total CO2 reduction TCO ₂	872,90			
AKFEN RENEWABLE SPP PROJECT	Annual	Units	Target	Actions to Take

	Amount		Reduction (%)	
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	0,31 tCO ₂	* Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines,
Total production (annual total electricity generation MW / h)	250			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	175,75			
Total CO2 reduction TCO ₂	175,44			

ÇALIKOBASI HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	1 475, 02 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO2 emissions vehicles in rental cars.
Total production (annual total electricity generation MW /h) Plant No.1 started to operate, No.2 underconstruction	3 462			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	2 433,79			
Total CO2 reduction TCO ₂	958,76			

ÇİÇEKLİ HEPP	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	96,19 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO2 emissions vehicles in rental cars.
Total production (annual total electricity generation MW / h)	Construction is ongoing			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	Construction is ongoing			
Total CO2 reduction TCO ₂	-----			

AKFEN HEAD OFFICE	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---			
Indirect CO2 emission intensity	54 tCO ₂	* Generator Usage * Use of passenger cars	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO2 emissions vehicles in rental cars.
Total production (annual total electricity generation MW/h)	----			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	---			
Total CO2 reduction TCO ₂	-----			

(TOTAL)	Annual Amount	Units	Target Reduction (%)	Actions to Take
Direct CO2 emission intensity	---	* Power plants * Sites *Head office	0,5 %	<ul style="list-style-type: none"> • Regular maintenance of the generator. • Having periodic vehicle maintenance on a regular basis, • Train staff to prevent unnecessary operation of vehicle engines, • Prefer low CO2 emissions vehicles in rental cars.
Indirect CO2 emission intensity TCO ₂	14 456,69			
Total production (annual total electricity generation MW/h)	495 213,44			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO ₂ (according to Table 1 given in EBRD-GN4)	348 135			
Total CO2 reduction TCO ₂	344 737			

Table 13- Greenhouse gas emissions and greenhouse gas reduction values In 2017

Akfen has developed GS and VCS projects in the Voluntary Carbon Market for carbon reduction. Carbon credit amounts of HEPP projects whose verification studies were completed are given below. Verification studies for 2 SPP projects are still going on. VSC studies for new WPP will be started soon.

Project	Certificate	Date	Credit Amount (tCO ₂ e)
Çamlıca III HEPP	VCU	2011	32.175
		2012	39.410
		2013	28.707
Saraçbendi HEPP	VCU	2011	14.707
		2012	31.197
		2013	37.889
Otluca HEPP	VCU	2011	61.734
		2012	100.466
		2013	79.501
Sırma HEPP	VCS	2011	4.564
		2012	12.804
		2013	6.615
Demirciler HEPP	GS	Verification studies are going on	0
Gelinkaya HEPP	GS	Verification studies are going on	0
Kavakçalı HEPP	GS	Verification studies are going on	0
Sekiyaka HEPP	GS	Verification studies are going on	0
Yağmur HEPP	GS	Verification studies are going on	0
Total			449,769

Table 14- VCS Carbon Credit Amounts

Waste and Hazardous Materials (please fill in the following tables, add the required rows / columns)

WASTE TYPE	TOTAL WASTE AMOUNTS IN 2017															
	Domestic Wsate (kg)	Plastics (kg)	Paper (kg)	Metal Scrap (kg)	Wood Scrap (kg)	Waste Oils/Lubricants (kg)	Medical Wsate (kg)	Elektronic Waste (kg)	Printing Toners (Hazardous material) (each)	Leaded Batteries and Accumulators (kg)	Flourescent Lamp (kg)	Contamineted Material (kg)	Ömrünü Tamamlamış Lastik (kg)	Conatamineted Packaging Waste (kg)	Dye Waste (kg)	Waste Vegetable Oil (kg)
PLANTS																
STORAGE,USE and/or DISPOSAL METHOD	Disposal by municipality	Disposal by municipality	Disposal by municipality	Disposal by municipality	Transferred for disposal	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal	Given to vendor when bought new one	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal	Transferred to licensed firms for disposal
OTLUCA HPP	6600	350	150	0	0	3400	0	40	4	1250	3	300	100	100	15	15
SIRMA HPP	1.200	265	110	0	0	100	0	0	5	325	2	50	50	0	0	0
SEKIYAKA HES	550	40	90	0	0	500	0	0	0	0	1	55	0	0	0	0
DEMİRCİLER HPP	2.500	140	12	100	0	660	0	5	0	0	20	13	50	0	0	0
KAVAKÇALI HPP	1.620	75	50	45	0	560	0	0	0	1	2	5	0	0	0	0
GELİNKAYA HPP	1.200	75	65	40	0	750	0	3	1	1	3	15	0	10	0	0
SARAÇBENDİ HPP	4.500	85	35	35	0	180	0	10	0	19	15	31	0	15	0	0
ÇAMLICA III HPP	4.100	50	25	650	0	600	0	3	0	1	40	10	0	10	0	0
DORUK HPP	6.000	25	15	0	0	1.250	0	15	20	7	11	5	200	180	0	0
YAĞMUR HPP	3.600	12	14	0	0	1.260	0	0	11	2	15	5	0	5	0	0
DOĞANÇAY HPP	6.000	150	20	25	0	1.040	0	20	5	4	6	850	100	30	0	0
SOLENTEGRE SPP	1.200	14	5	0	0	0	0	0	0	0	0	4	0	0	0	0
YAYSUN SPP	425	10	5	0	0	40	0	0	0	0	0	5	0	0	0	0
DENİZLİ SPP PROJECTS	300	2	1	0	0	50	0	0	0	0	0	5	0	0	0	0
AMASYA SPP PROJECTS	350	4	6	0	0	0	0	0	0	0	0	25	0	0	0	0
TOKAT SPP PROJECTS	300	6	3	0	0	0	0	0	0	0	0	20	0	0	0	0
AKFEN RENEWABLE SPP PROJECT	250	25	2	0	0	0	0	0	0	0	0	5	0	0	0	0
ÇALIKOBASI HPP	25.200	95	175	40	30	300	0	0	2	2	1	5	4.000	500	10	0
ÇİÇEKLİ HPP	15.000	45	140	30	40	250	0	0	1	1	1	5	350	350	0	0
AKFEN HEAD OFFICE	1.200	60	200	40	0	0	0	10	10	1	1	0	0	0	0	0
TOTAL	82.095	1.528	1.123	1.005	70	10.940	0	106	59	1.614	121	1.413	4.850	1.200	25	15

Tabe 15- Total Waste Amounts in 2017

Dangerous Material (Name and Number UN / CAS)	Field	Class or Division	Annual Amount	Maximum Quantity Stored at Site
- MOBIL SCH CIBUS 220 CAS # : 579-82-0 Hydrolic Oil	Doğançay HEPP	Plant	400 kg	150 kg
- MOBIL SHC POLYREX 462 CAS # : 471- 34-1 Gres oil	Doğançay HEPP	Plant	400 kg	150 kg
- NYNAS NYTRO Transformer Oil	Doğançay HEPP	Transformer	14 651 kg	2 000 kg
- SHELL TURBO T46 Turbine Oil	Sırma HEPP	Plant	1 590 kg	1 200 kg
- NYNAS NYTRO Transformer Oil	Sırma HEPP	Transformer	3 168 kg	1 150 kg
- SHELL 15/40 Generator Oil	Sırma HEPP	Generator	13 kg	6 kg
- PETROL OFİSİ M320	Sırma HEPP	Crane	15 kg	9 kg
- SHELL TURBO 46	Sırma HEPP	Coffer Dam	1 370 kg	500 kg
- VG220 Gear Oil	Sırma HEPP	Stop log	105 kg	50 kg
- No. 90 Gear Oil	Sırma HEPP	Bottom Vier Cleaning Log	6 kg	5 kg
- LUKOIL NO.10 Motor Yağı	Sırma HEPP	Compressor	6 kg	6 kg
- SHELL OMEGA 68 Makine Gresli	Sekiyaka HEPP	Plant	400 kg	100 kg
- SHELL TELLUS OIL T 68 Hydrolic Oil	Sekiyaka HEPP	Plant	400 kg	100 kg
- SHELL TURBO S4 Turbine Oil	Sekiyaka HEPP	Plant	250 kg	100 kg
- NYNAS NYTRO LYRA	Sekiyaka HEPP	Plant	2 132 kg	200 kg
- SHELL TELLUS S2 V 22 Industrail Hydrolic Oil	Demirciler HEPP	Plant	250 kg	150 kg
- SHELL TELLUS S2 M 46 Industrail Hydrolic Oil	Demirciler HEPP	Plant	250 kg	150 kg
- NYNAS NYTRO LYRA	Demirciler HEPP	Plant	4 398 kg	660 kg
-SHELL DİALA Inhibitor Transformer Oil	Doruk HEPP	Plant	150 kg	50 kg
-SHELL OMEGA 68 Hydrolic Oil	Doruk HEPP	Plant	150 kg	50 kg
- SHELL TELLUS OIL 46 Hydrolic Oil	Otluca HEPP	Plant	400 kg	100 kg
- SHELL TELLUS OIL T 68 Hydrolic Oil	Otluca HEPP	Plant	150 kg	50 kg
- SHELL TELLUS S2 V 22 Hydrolic Oil	Kavakçalı HEPP	Plant	400 kg	100 kg
- NYNAS NYTRO LYRA	Kavakçalı HEPP	Plant	2 400 kg	404
- SHELL TELLUS S2 M 46 High Performance Hydraulic Oil	Kavakçalı HEPP	Plant	300 kg	100kg
-SHELL DİALA Inhibitor Transformer Oil	Gelinkaya HEPP	Transformer	100 kg	50 kg
-SHELL OMEGA 68 Hydraulic Oil	Gelinkaya HEPP	Plant	250 kg	100 kg
- SHELL TELLUS OIL 46 Hydraulic Oil	Saraçbendi HEPP	Plant	250 kg	100 kg
- NYNAS NYTRO LYRA	Saraçbendi HEPP	Plant	9 330 kg	1 500 kg
- MOBIL SCH CIBUS 220 CAS # : 579-82-0 Hydraulic Oil	Çamlıca III HEPP	Plant	250 kg	150 kg
- MOBIL SHC POLYREX 462 CAS # : 471- 34-1 Gres oil	Çamlıca III HEPP	Plant	250 kg	150 kg
- SHELL TELLUS S2 V 22 Hydraulic Oil	Yağmur HEPP	Plant	150 kg	50 kg
- SHELL TELLUS S2 M 46 High Performance Hydraulic Oil	Yağmur HEPP	Plant	150 kg	50 kg

Hazardous chemicals used at plants:

Table 16- List of Used Chemicals

PS4, PK4 - COMMUNITY HEALTH, SAFETY AND SECURITY

Using the table below list and briefly describe any new initiatives implemented in relation to community health and safety during the reporting period. Include risk assessments, new infrastructure and equipment; hazardous materials and safety management, transportation and exposure to disease.

Mitigating Measure	Expected or actual date of implementation	Future planned mitigation measures?
<p>Mitigation measures taken in the operating plants:</p> <ul style="list-style-type: none"> • Unauthorized access is blocked by turning the fences around the site. In addition, warning signs are placed in order to warn local people and 3rd party persons. 24 hour camera system is used for environmental security control. • Security personnel are available. • There is no need for a new infrastructure or new equipment to be introduced during this period. • OFF-Site Emergency Action plans have been prepared. A sample plan is given in Annex-18. <div data-bbox="197 1037 539 1480" data-label="Image"> </div> <p>An implementation of Siren system is show in the picture.</p> <ul style="list-style-type: none"> • There is a accident registration system • Effective communication with the local people is established. • Local people are informed about how to make their complaints. • A social action plan has been prepared by an expert sociologist. • Information meetings are held about the project for the local people by the public relations officer. <p>There are special areas reserved for storing hazardous waste in power plants and trainings and inspections are carried out on hazardous waste storage (legislative requirements and as good practice examples).</p>	<p>These measures are available</p>	<p>For each HEPP project an Environmental Protection and Warning Systems Project File was prepared upon request and submitted to DSI. With this system, early warning-alarm systems will be installed against possible flood events. Approval procedure is going on.</p> <p>Traffic Management Plans were prepared and implementations will be done .</p> <p>Off-Site Emergency drills will ve planned with the participation of local people and training will be held.</p>

<p>Traffic Management Plans were prepared for all plants. Çalıkobası HEPP Traffic Management Plan is as a sample in Annex-16.</p>		
<p>Mitigation measures taken for the projects where construction activities continue:</p> <ul style="list-style-type: none"> • Unauthorized access is blocked by surrounding the sites with wire mesh. In addition, warning signs are given to local people and 3rd party persons are warned. • Entrances and exits of construction sites are monitored and recorded for 24 hours by the guard. • Security personnel are available. • The most appropriate routes are selected in case of potential danger for surrounding settlements on the way to the premises, or to minimize the most, and the speed limit for habitable places, horn restraint has been introduced. • In dry seasons, water sprey is carried out in order to avoid dust storms in uncovered roads. • Employees are forbidden to move around in the residential area • Informational meetings are organized about the project activities for local people by the public relations officer. • Local people are informed in advance in case of blasting, road, energy interruption, etc. • Local people are informed about how to make their complaints. • Social action plans are prepared by expert sociologist. Effective communication with local people is being established. • Emergency Action plans were prepared. • There is an accident registration system. • Traffic Management Plans were prepared . 	<p>These measures are available</p>	<p>Environment and OHS trainings will continue in 2018 and zero accident will be targeted.</p> <p>Traffic Management Plans were prepared and implementations will be done in 2018.</p>

Table 17- Community Health and Safety

During the reporting period any emergency drills have been conducted with community participation? Are the communities aware of the emergency response plans?

In this period, emergency trainings were given with social participation. An example of this is the training records of Demirciler HEPP and Sirma HEPP. At Demirciler HEPP, a training on Information on Emergency Situations was given on 09.012017. Another example is a 1 hour Emergency Preparadness Training on the 13.01.2017 in the Amasya district near Sirma HEPP, given a group of 5 people from the local community.

We believe that similar HES trainings and drills (especially with regard to flooding) should be carried out in all HEPPs with the participation of the local people. For this reason, Off-Site Emergency Response

Plans were prepared for all plants. Emergency trainings and drills with public participation will be done in 2018.

Please describe any changes in the Company's engagement with private/public security forces during the reporting period and any corresponding agreements.

In this period, Private Security Permit applications were made for Amasya SPP and Tokat SPP to the relevant Governorates and permissions were obtained. Private Security service was provided.

PS5, PK5 - LAND ACQUISITION AND INVOLUNTARY RESETTLEMENT

Provide the following information regarding land acquisition required for the project that has taken place during the reporting period. If none, write "N/A" and skip this section.

During this reporting period, land acquisition studies were carried out for the number of parcels specified for the projects given in the tables below.

However, no resettlement was done for any project in 2017.

SOLENTGRE SPP PROJECT	Number of Plots	Hectare	Land Acquisition% total area
Total area expropriated during the reporting period (PROJECT AREA + ETL)	1	0,97	%100
Total area of affected agricultural land	1	0,97	%100

Note: ETL of this project is designed to be an underground line up to switchwayrd, so no land accusation will be done for ETL.

AKFEN RENEWABLE SPP PROJECT	Number of Plots	Hectare	Land Acquisition % total Area
Total area purchased during the reporting period (PROJECT AREA)	1	0,91	%100
Total area of affected agricultural land	1	0,91	%100

Note: ETL of this project is designed to be an underground line up to switchwayrd, so no land accusation will be done for ETL.

ME-SE SPP PROJECT	Number of Plots	Hectare	Expenditure Status% total area
Total area purchased during the reporting period (PROJECT AREA+ETL)	1	19,63	%100
Total area of affected agricultural land	NONE		

Note: Design work for ETL of this project is going on.

ENGİL 208 SPP PROJECT	Number of Plots	Hectare	Expenditure
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			Status% total area
Total area purchased during the reporting period (PROJECT AREA)	3	20,68	%100
Total area of affected agricultural land	NONE		

Note: Design work for ETL of this project is going on.

HASANOBA WPP PROJECT	Number of Plots	Hectare	Expenditure Status% total area
Total area purchased during the reporting period (PROJECT AREA)	17	2,69	%43
Total area of affected agricultural land	17	2,69	%43

Note: Design work for ETL of this project is going on.

ÜÇPINAR WPP PROJECT	Number of Plots	Hectare	Expenditure Status% total area
Total area purchased during reporting period (PROJECT AREA)	15	1,42	%98
Total area of affected agricultural land	7	1,07	%100

Note: Design work for ETL of this project is going on

KOCALAR WPP PROJECT	Number of Plots	Hectare	Expenditure Status% total area
Total area purchased during reporting period (PROJECT AREA)	6	0,23	%100
Total area of affected agricultural land	5	0,19	%100

Note: Design work for ETL of this project is going on

DENİZLİ WPP PROJECT	Number of Plots	Hectare	Expenditure Status% total area
Total area purchased during reporting period (PROJECT AREA)	85	32,53	%95
Total area of affected agricultural land	21	4,85	%70

Note: Design work for ETL of this project is going on

Table 18- Land Acquisition in 2017

DISPLACEMENT INDICATORS

	Total land (Ha)	Total Family / Business	Total individual	Re-Placed / Restored To-Date	Pending	Comments
Physically displaced	None	None	None	None	None	None
Official title holders	None	None	None	None	None	None
Unofficial Slum residents	None	None	None	None	None	None
Tenants	None	None	None	None	None	None
TOTAL	None	none	None	None	None	None
Economically displaced	Hasanoba WPP: (2,69)	9	45	None	None	Area required for turbine foundations and access roads for Hasanoba WPP is 37 ha. Only 2,69 ha (7%) of this area is private property.
	Üçpınar WPP: (1,07)	12	60	None	None	Area required for turbine foundations and access roads for Üçpınar WPP is 51,77 ha. Only 1,07 ha (2%) of this area is private property.
	Kocalar WPP: (0,19)	5	25	None	None	Area required for turbine foundations and access roads for Kocalar WPP is 16,42 ha. Only 0,19 ha (1%) of this area is private property.
	Denizli WPP: (4,82)	52	260	None	None	Area required for turbine foundations and access roads for Denizli WPP is 49,92 ha. Only 4,82 ha (10%) of this area is private property.
	Doruk HEPP: (0,46)	51	255	None	None	Aksu Regulator was expropriated as access road of Doruk HEPP.
Physically and Economically (Both) displaced	None	None	None	None	None	None
TOTAL	9,23	130	645	None	None	None

Table 19- Economical Displacement

NOTE: Please provide the following information regarding families/individuals/business directly affected by land acquisition

Briefly describe any measures to avoid impacts on livelihoods and residences during the reporting period.

Projects and the ETL routes planned during 2017 period were not situated on any residential areas. Projects that subject to land acquisition area new WPP projects. Wind plant do not require huge lands. For these WPP projects, some private lands has top be expropriated. Land acquisition for Kocalar WPP was completed and it is going on for the others although nearly completed. For that reason, there have not been any directly affected families / individuals / businesses at a considerable level due to land acquisition.

Briefly describe the type of solutions provided for new physically displacement and economic displacement not included in the Resettlement Plan.

* Alternative field studies are being carried out in SPP and WPP projects, in order not to locate project structures to settlement areas and agricultural land.

* Projects are being developed on the areas that both the project can be done technically and stakeholders will not be affected negatively from the project. However, if the project coincides with the personal interest; meetings are held between the administration and the company on the expropriation studies for these immovables. Notices regarding the project are made to the landowners who are to be expropriated, and the expert's questionnaire prepared by the court in the legal process is preparing the immovable appraisal reports. As a result, the necessary work is being carried out for stakeholders not to suffer.

* All of the SPP project sites are planned to be constructed with non-arable land (Omicron Erciř, Omicron Engil, PSI Engil, MESE and Solentegre SPP Projects). For this pasture area, a change of skill is made and it is registered as a treasure land in the tapestry. The rent is paid to the Treasury every year for these lands, and if it is a pasture grassland, it is paid to the Provincial Directorate of Agriculture.

* In the field selection for the projects to be carried out within the scope of Yaysun, Denizli, MT SPP, Amasya SPP and Tokat SPP projects, the lands where the arid farming and construction of the SPP project were carried out by the administration were selected and at the same time private acquisitions were made without expropriation for these areas. Acquisition of ownership of the project sites has been registered in the name of the relevant companies of Akfen.

*Detailed plans are made on the topographic and cadastral maps in order to ensure that the ETL(Energy Transmisson Line) route does not coincide with the agricultural area and the residential area between the power plant and the transformer center (TC) to be connected within the scope of the route works of ETL projects approved by TEDAř / TEİAř. Attention will be paid to the prevention of agricultural work by planning the masts. ETL for Solentegre SPP and Akfen Renewable SPP were planned as ungerground line and no land acquisition was needed.

* In the energy transmission lines, the areas that directly match the places are expropriated in the name of TEDAř and the right of easement for TEDAS is established on the part between the overhead lines between the two masts.

* The right to use the right of easement is in the name of the title deed owner for land under ETL and farming is continued in these areas.

* As far as WPP project are concerned, attention is paid for site selection. Because of the nature of these projects, they are situated on hills and peak points. These places are normally eroded lands and not suitable for agriculture and settlement. While placing wind turbines, obstacles, protected areas, forest intensity, natural protection areas are eliminated and land having other than these characteristics were selected. When necessary, turbine locations may be changed, unless it remains in the EIA Report boundaries.

Briefly describe any special measures for particularly vulnerable cases (displacement elderly, female-headed household, etc)

No resettlement was made during this reporting period.

Please attach detailed information/report of the resettlement process as per the Resettlement Action Plan monitoring arrangement.

No resettlement was made during this reporting period.

Has Client Company made any new investment or acquisitions that have resettlement issues as defined by PS5? Yes No

If the answer is yes please provide copy/ updated information of the Resettlement Action Plan, Framework or other resettlement management plans or reports.

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Using the Table provided below list any grievance or dispute (include court action) regarding land acquisition or resettlement received during the reporting period, describe how it was addressed and its current status.

The disputes that have been brought to the court due to land acquisition in this period and the complaints reported in writing are summarized below.

Complaint / Date of dispute	Complainant	Problem	Solved (Y/N)	Action taken	Closing date
16.06.2016	Zeynep Emine ÖZKAYNAK	In Doğançay HEPP has been inundated with water during the periods when the lake water has risen and the land has become unusable	N	In order to expropriate the land, an agreement was reached with the complainant, and negotiations continue. However, a positive result has not yet been obtained.	Have not closed yet
24.01.2017	İlhan YILDIRIM	In Doğançay HEPP, as a result of the overflow of the water in the lake area, the field damaged and agricultural activities were ceased	N	Determine the loss of landlord's loss. It will go to the deal.	Have not closed yet
11.07.2017	Sadullah KURU	His land was effected due to activities of Boğuntu Regulator and its lake. The owner wanted his land to be expropriated.	Y	The land was expropriated with the consent of the owner	20.10.2017

11.07.2017	Yusuf KURU	His land was effected due to activities of Boğuntu Regulator and its lake. The owner wanted his land to be expropriated.	Y	The land was expropriated with the consent of the owner	20.10.2017
11.07.2017	Mustafa KURU	His land was effected due to activities of Boğuntu Regulator and its lake. The owner wanted his land to be expropriated.	Y	The land was expropriated with the consent of the owner	20.10.2017
01.08.2017	Züriye ÖREN	In Doğançay HEPP has been inundated with water during the periods when the lake water has risen and the land has become unusable	Y	The land was expropriated with the consent of the owner	08.08.2017

Table 20- Disputes about Land Acquisition

PS6, PK6 – BIODIVERSITY CONSERVATION AND SUSTAINABLE MANAGEMENT OF LIVING NATURAL RESOURCES

Using the table below describe any **new activities or expansions** that have increased the project footprint into new **areas of habitat** during the reporting period.

EIA positive decision was obtained for Yaysun SPP where pre-construction studies are going on. This EAI report includes elological studies made for ETL route as well.

During this reporting period, 4 new wind power plant projects were developed. All these projects have eco-system assessment reports, landscape restoration reports. A brief summary of habitat characteristics of WPPs are given below.

New activity/expansion	Total area covered	Habitat type
Denizli WPP	RES Area: 11 292 500 m ²	Steppe vegetation
Hasanoba WPP	RES Area: 9 812 200 m ²	Maquis shrubland Forest vegetation Rock vegetation Ruderal vegetation
Kocalar RES	RES Area: 8 036 480 m ²	Maquis shrubland Forest vegetation Rock vegetation Ruderal vegetation
Üçpınar RES	RES Area: 11 972 400 m ²	Maquis shrubland Forest vegetation Rock vegetation Ruderal vegetation

Table 21– Biodiversity of 4 WPP sites

Using the table below provide details of deforestation conducted during the reporting period.

Field	Total deforestation area	Type of lost species	Total area reforested	Type of planted species	Reforestation for commercial use Y/N
ÇALIKOBASI HEPP*					
ÇİÇEKLİ HEPP*					

* The total area for this period is not definite, since project studies are ongoing. After the end of the construction works, the site will be rehabilitated and delivered to the administration and the total amount of forestation will be determined.

Table 22- Deforestation

Using the table below provide details of fish and other aquatic species harvesting during the reporting period.

During this reporting period fish and other aquatic species were not caught. On the contrary, fish transportation work was carried out at Çamlıca III HEPP project, ensuring sustainability of the ecosystem. Both in spring and autumn 2017 fish transportation was done. A 'Fish Catching, Transportation and Release' report was prepared and given in Annex-10. Fishing and hunting in the regulator ponds in our plants is prohibited by the **Guideline for Environmental Protection, Security and Warning Systems for Energy Use Facilities** published by the General Directorate of State Hydraulic Works (DSİ).

Site	Volume harvested	Type of species
None	None	None

Table 23- Hunting of aquatic species

PS8 – CULTURAL HERITAGE

Using the table below list new cultural property discovered in the course of project activities during the reporting period.

Location	Date of discovery	Type of discovery	Additional protection measures taken
None			
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Table 24- Cultural Assets

No evidence of any cultural heritage in our projects had been encountered.


AMR SECTION IV

NEW DEVELOPMENT

Social and Environmental Screening/ Elimination

Please list projects which have come under active consideration for development by since the last report. For the first report please list the opening project pipeline.

4 WPP and 1 SPP projects were developed in 2017. BriefnNon-technical summary of each project is given below.

Project and Location	Short Description
<p>HASANOBA WPP, ÇANAKKALE</p> 	<p>Installed Power : 51 kW Prodction Capacity : 178.500 .000kWh/year Power Plant Location : Çanakkale province, Central district, Operating Company : Kovancı Enerji Üretim Pazarlama İth. ve İhr. A.Ş Started to Operate : 2011 License No : EÜ/3712-3/2262</p> <p>Environmental and Social Impact Assessment : Hasanoba WPP received an EIA Not Necessary Decision (Decision date: 07.02.2012, Decision No: 2012/09) as per the abrogated Environmental Impact Assessment Regulation dated 17.07.2008 and numbered 26939. All construction and operational works will be done with care not cause any environmental pollution;</p> <ul style="list-style-type: none"> ❖ Environmental protection is a must ❖ All wastes that can cause environmental pollution will be disposed according to local legislations, ❖ All works will be carried out according to Environmental Law (having no. of 2872) and its reguaitions ❖ Project has Eco-System Evaluation Report ❖ Project has Landscape Rehabilitation Report ❖ Project has Noise Evaluation Report and Noise Maps ❖ Monitoring studies were done for birds in spring and autumn ❖ Local people will have a priority for employment <p>Pr -construction works are carried out at the moment</p> <p>Environmental and Social Impacts/Benefits: Renewable energy production will promote use of national energy sources and production of clean energy. Project will offer employment opportunities to local people and create economical improvement.</p> <p>Social Engagement Plan: A social engagement plan was prepared to determine social aspects of the project. This is published on web site of Akfen (www.akfenren.com.tr).</p> <p>Mitigation and Management Measures: Hasanoba WPP will be operated with an epitomic institutional sense of obligation and it will be a sample. All acting legislation will be followed.</p> <p>Carbon Certificate: Hasanoba WPP is a Voluntary Emission Reduction project of Gold Standard and a carbon certificate will be obtained.</p> <p>Communication: Grievances and proposals can be made to Mr. BURAK SOLMAZ by phone, fax and e.mail given below.</p> <p>Phone:0 530 954 18 87 Fax: 0312 441 68 14 e-mail: bsolmaz@akfen.com.tr</p>

DENİZLİ WPP, DENİZLİ



Installed Power	: 66 MW
Production Capacity	: 184.472.600 kWh/year
Power Plant Location	: Denizli province, Babadağ district, and Aydin province, Karacasu district
Operating Company	: Korda Enerji Üretim Pazarlama İthalat ve İhracat A.Ş
Started to Operate	: ----
License No	: EÜ/3382-10/2050

Environmental and Social Impact Assessment: Denizli WPP has received an EIA Not Necessary Decision (Decision date: 15.07.2011, Decision No: 42) as per the abrogated Environmental Impact Assessment Regulation dated 17.07.2008 and numbered 26939. All construction and operational works will be done with care not cause any environmental pollution;

- ❖ Environmental protection is a must
- ❖ All wastes that can cause environmental pollution will be disposed according to local legislations,
- ❖ All works will be carried out according to Environmental Law (having no. of 2872) and its reguaitions
- ❖ Project has Eco-System Evaluation Report
- ❖ Project has Landscape Rehabilitation Report
- ❖ Project has Noise Evaluation Report and Noise Maps
- ❖ Monitoring studies were done for birds in spring and autumn
- ❖ Local people will have a priority for employment

Pre construction works are carried out at the moment



Environmental and Social Impacts/Benefits: Renewable energy production will promote use of national energy sources and production of clean energy. Project will offer employment opportunities to local people and create economical improvement.

Social Engagement Plan: A social engagement plan was prepared to determine social aspects of the project. This is published on web site of Akfen (www.akfenren.com.tr).

Mitigation and Management Measures: Denizli WPP will be operated with an epitomic institutional sense of obligation and it will be a sample. All acting legislation will be followed.

Carbon Certificate: Denizli WPP is a Voluntary Emission Reduction project of Gold Standard and a carbon certificate will be obtained.

Communication: Grievances and proposals can be made to Mr. BURAK SOLMAZ by phone, fax and e.mail given below.

Phone:.0 530 954 18 87 Fax: 0312 441 68 14 e-mail: bsolmaz@akfen.com.tr

**KOCALAR WPP,
ÇANAKKALE**



Installed Power : 26 MW
Production Capacity : 88.051.100 kWh/year
Power Plant Location : Çanakkale province, Central District
Operating Company : Isider Enerji Üretim Pazarlama İthalat ve İhracat A.Ş.
Started to Operate : ---
License No : EÜ/3570-5/2180

Environmental and Social Impact Assessment: Kocalar WPP has received an EIA Not Necessary Decision (Decision date: 30.09.2011, Decision No: 2011/44) as per the abrogated Environmental Impact Assessment Regulation dated 17.07.2008 and numbered 26939. All construction and operational works will be done with care not cause any environmental pollution;

- ❖ Environmental protection is a must
- ❖ All wastes that can cause environmental pollution will be disposed according to local legislations,
- ❖ All works will be carried out according to Environmental Law (having no. of 2872) and its reguaitions
- ❖ Project has Eco-System Evaluation Report
- ❖ Project has Landscape Rehabilitation Report
- ❖ Project has Noise Evaluation Report and Noise Maps
- ❖ Monitoring studies were done for birds in spring and autumn
- ❖ Local people will have a priority for employment

Pre construction works are carried out at the moment



Environmental and Social Impacts/Benefits: Renewable energy production will promote use of national energy sources and production of clean energy. Project will offer employment opportunities to local people and create economical improvement.

Social Engagement Plan: A social engagement plan was prepared to determine social aspects of the project. This is published on web site of Akfen (www.akfenren.com.tr).

Mitigation and Management Measures: Kocalar WPP will be operated with an epitomic institutional sense of obligation and it will be a sample. All acting legislation will be followed.

Carbon Certificate: Kocalar WPP is a Voluntary Emission Reduction project of Gold Standard and a carbon certificate will be obtained.

Communication: Grievances and proposals can be made to Mr. BURAK SOLMAZ by phone, fax and e.mail given below.

Phone: 0 530 954 18 87 Fax: 0312 441 68 14 e-mail: bsolmaz@akfen.com.tr

ÜÇPINAR WPP, ÇANAKKALE



Installed Power	: 99 MW
Production Capacity	: 342.254.600 kWh/year
Power Plant Location	: Çanakkale Province, Lapseki District,
Operating Company	: Derbent Enerji Üretim Pazarlama İth. ve İhr. A.Ş...
Started to Operate	: ---
License No	: EÜ/3433-10/2085

Environmental and Social Impact Assessment: Üçpınar WPP has received an EIA Not Necessary Decision (Decision date: 30.09.2011, Decision No: 2011/44) as per the abrogated Environmental Impact Assessment Regulation dated 17.07.2008 and numbered 26939. All construction and operational works will be done with care not cause any environmental pollution;

- ❖ Environmental protection is a must
- ❖ All wastes that can cause environmental pollution will be disposed according to local legislations,
- ❖ All works will be carried out according to Environmental Law (having no. of 2872) and its regulations
- ❖ Project has Eco-System Evaluation Report
- ❖ Project has Landscape Rehabilitation Report
- ❖ Project has Noise Evaluation Report and Noise Maps
- ❖ Monitoring studies were done for birds in spring and autumn
- ❖ Local people will have a priority for employment

Pre construction works are carried out at the moment



Environmental and Social Impacts/Benefits: Renewable energy production will promote use of national energy sources and production of clean energy. Project will offer employment opportunities to local people and create economical improvement.

Social Engagement Plan: A social engagement plan was prepared to determine social aspects of the project. This is published on web site of Akfen (www.akfenren.com.tr).

Mitigation and Management Measures: Üçpınar WPP will be operated with an epitomic institutional sense of obligation and it will be a sample. All acting legislation will be followed.

Carbon Certificate: Üçpınar WPP is a Voluntary Emission Reduction project of Gold Standard and a carbon certificate will be obtained.

Communication: Grievances and proposals can be made to Mr. BURAK SOLMAZ by phone, fax and e.mail given below.

Phone: 0 530 954 18 87 Fax: 0312 441 68 14 e-mail: bsolmaz@akfen.com.tr

**AKFEN RENEWABLE SPP,
ELAZIĞ**



Installed Power : 500 kW
Production Capacity : 987.500 kWh/year
Power Plant Location : Elazığ province, Şahinkaya village
Operating Company : Derbent Enerji Üretim Pazarlama İth. ve İhr. A.Ş...
Started to Operate : ---
License No : No license

Environmental and Social Impact Assessment: Akfen Renewable SPP has been evaluated as out of scope of Environmental Impact Assessment Regulation with Decision no: 14698725 E-2014727 and Date : 03/12/2014. Plant is situated at Holoşnut locality of Şahinkaya village of Elazığ province. It occupies

9 100m² area. Operational works will be done with care not cause any environmental pollution;

- ❖ Environmental protection is a must
- ❖ All wastes that can cause environmental pollution will be disposed according to local legislations,
- ❖ All works will be carried out according to Environmental Law (having no. of 2872) and its regulations
- ❖ Project has Eco-System Evaluation Report
- ❖ Project has Landscape Rehabilitation Report
- ❖ Project has Noise Evaluation Report and Noise Maps
- ❖ Monitoring studies were done for birds in spring and autumn
- ❖ Local people will have a priority for employment

Environmental and Social Impacts/Benefits: Renewable energy production will promote use of national energy sources and production of clean energy. Project will offer employment opportunities to local people and create economical improvement.

Social Engagement Plan: A social engagement plan will be prepared to determine social aspects of the project. It will be published on web site of Akfen (www.akfenren.com.tr).

Mitigation and Management Measures: Akfen Renewable SPP is operated with an epitomic institutional sense of obligation and it will be a sample. All acting legislation are followed.

Communication: Grievances and proposals can be made to Mr. BURAK SOLMAZ by phone, fax and e.mail given below.

Phone:.0 530 954 18 87 Fax: 0312 441 68 14 e-mail:
bsolmaz@akfen.com.tr

Table 25- Projects Developed in 2017

PROJECTS COMPLETED OR IN PROGRESS DURING THE REPORTING PERIOD

Please complete the table to list the projects completed during the reporting period, which are operated by Akfen or which are under construction, and how environmental and social risk was managed in these projects. If risk management cannot be adequately covered in the sections which follow, please add any relevant information if required.

Project	Situation (Ex: during construction, completed)	Significant risk management measures have been taken
AMASYA SPP PROJECTS	In this period the construction was completed and taken into operation.	Hazard identification and risk analysis were conducted for the Amasya Solar Energy Plant. National waste management is applied in compliance with the legislation. Trainings in the subjects of environment awareness, social relations and OHS were conducted. The implementation of ISO 9001 Quality, ISO 14001 Environment, OHSAS 18001 OHS and ISO 50001 Energy Management Systems were started in 2017 for environment, social and OHS requirements and risk management was systematized. A Traffic Mangement Plan has been prepared for the project.
TOKAT SPP PROJECTS	In this period the construction was completed and taken into operation.	Hazard identification and risk analysis were conducted for the Tokat Solar Energy Plant. National waste management is applied in compliance with the legislation. Trainings in the subjects of environment awareness, social relations and OHS were conducted. The implementation of ISO 9001 Quality, ISO 14001 Environment, OHSAS 18001 OHS and ISO 50001 Energy Management Systems were started in 2017 for environment, social and OHS requirements and risk management was systematized. A Traffic Mangement Plan has been prepared for the project.
ÇALIKOBASI HEPP 1. PLANT	In this period the construction was completed and taken into operation.	Hazard identification and risk analysis were conducted for the Çalıkobası HEPP 1. Plant. National waste management is applied in compliance with the legislation. Trainings in the subjects of environment awareness, social relations and OHS were conducted. The implementation of ISO 9001 Quality, ISO 14001 Environment, OHSAS 18001 OHS and ISO 50001 Energy Management Systems were started in 2017 for environment, social and OHS requirements and risk management was systematized. A Traffic Mangement Plan has been prepared for the project.
ÇALIKOBASI HEPP 2. PLANT	It's under construction.	Environmental risks that may occur during the construction phase specified in the EIA Report of the Project and measures to be taken are monitored continuously. In this context, dust, noise and vibration measurements are made. National waste management implementation is in compliance with the legislation. The area of the construction site was covered and warning signs were placed in sufficient quantities. Speed limitations, horn bans have been set so as not to disturb the surrounding settlements during material transport. In dry seasons, water spraying of road is done to prevent dust formation. Blasting times are determined in advance and daytime hours are preferred. A Social Action Plan was prepared by the expert sociologist for the project. Environment and OHS site audit has been carried out by third party and its activities have been checked for compliance with national legislation, IFC and EBRD standards and good applications in the sector. A Traffic Mangement Plan has been prepared for the project.

ÇİÇEKLİ HEPP	It's under construction.	Environmental risks that may occur during the construction phase specified in the EIA Report of the Project and measures to be taken are monitored continuously. In this context, dust, noise and vibration measurements are made. National waste management implementation is in compliance with the legislation. The area of the construction site was covered and warning signs were placed in sufficient quantities. Speed limitations, horn bans have been set so as not to disturb the surrounding settlements during material transport. In dry seasons, water spraying of road is done to prevent dust formation. Blasting times are determined in advance and daytime hours are preferred. The Social Action Plan was prepared by the expert sociologist for the project. Environment and OHS site audit has been carried out by third party and its activities have been checked for compliance with national legislation, IFC and EBRD standards and good applications in the sector. A Traffic Mangement Plan has been prepared for the project.
AKFEN RENEWABLE SPP	In this period construction has been completed and started to operational phase	Hazard identification and risk analysis were conducted for the Akfen Renewable Solar Energy Plant. National waste management is applied in compliance with the legislation. Trainings in the subjects of environment awareness, social relations and OHS were conducted. The implementation of ISO 9001 Quality, ISO 14001 Environment, OHSAS 18001 OHS and ISO 50001 Energy Management Systems were for environment, social and OHS requirements and risk management was systematized. A Traffic Mangement Plan is prepared for the project.
SOLENTEGRE (0,5 MW) GES and YAYSUN (0,5 MW) GES	In this period the construction was completed and taken into operation.	Hazard identification and risk analysis were conducted for the Solentegre (0,5 MW) and Yaysun (0,5 MW) Solar Energy Plants. National waste management is applied in compliance with the legislation. Trainings in the subjects of environment awareness, social relations and OHS were conducted. The implementation of ISO 9001 Quality, ISO 14001 Environment, OHSAS 18001 OHS and ISO 50001 Energy Management Systems were for environment, social and OHS requirements and risk management was systematized. A Traffic Management Plan is prepared for the projects.

Table 26- Projects Completed or Underconstruction During the Reporting Period

SELECTION / ELECTION STUDIES BEFORE PROJECT DEVELOPMENT

Please fill in the table below to show how the Company has been selected for such projects to identify potential adverse environmental and / or social impacts that may arise from these potential projects within IFC's Performance Standards. If any issues are found, please briefly explain how the Company is managing these issues in accordance with the IFC Performance Standards and local laws. Please also indicate whether the official Environmental and Social Impact Assessment has been prepared for each project.

In this period, assessments made according to IFC and EBRD performance standards for Kocalar WPP, Üçpınar WPP, Hasanoba WPP and Denizli WPP and given in Annex-17.

AMR SECTION V

ACTION PLAN STATUS AND UPDATE

Please update us in the current status of the action plan, define the dates when pending actions will be implemented. Please refer to the initial ESAP for the indicators and deliverables.

IFC No	EBRD No.	Action	Timetable Action to be Completed	Due date to be disclosed on IFC project webpage	Target and Evaluation Criteria For Successful Implementation	Comment	Progress Update
2	1.1	<p>Develop and implement an environmental, health and safety management system at the corporate and site level. Ensure appropriate reporting lines to be implemented through Akfen Holding .</p> <p>Attain certification to ISO 14001, OHSAS 18001and ISO 50001.</p>	- 2018	12/31/2018	<p>Developing an implementation plan in 2016</p> <p>Corporate certification by 2018</p>		<p>ISO 9001 Quality Management System ISO 14001 Environmental Management System certificates were obtained on 24/01/2017. OHSAS 18001 Occupational Health and Safety Management System and ISO 50001 Energy Management System certificates were obtained on 01/02/2017. Quality system implementation are going on and necessary revision were done. An intermediate audit was done on 23-24 January 2017 by ICIM. Quality system certificates were submitted in 2016 AMR (Annex-21)</p>
4	1.2	<p>As a part of EHS management system, nominate and maintain an EHS manager at corporate level.</p>	December 2016	12/31/2016	<p>Summarize HSE Organisation chart</p>		<p>Mr. Hakan BOZKURT has been appointed as the Director of Environment and Occupational Health and Safety at the institutional level</p>

		The person should be a main point of contact for every stakeholder, NGOs, local communities and grievances from third parties, as well as review all new EIA's for new projects and maintain an internal audit system			in annual report		for the management of environmental, social, occupational health and safety issues. Annual Report PS1/PK1 1 section, organization chart of Akfen's social, environmental and OHS issues is given. Complaints from stakeholders, NGOs, local communities and 3rd parties will also be sent to the Environment and OHS Director by following the sequence indicated in the organizational chart. EIA reports of new investments were evaluated before investment decision were taken. Requirements of EIA reports of operating plants were fulfilled by necessary monitoring and audits. Environment and Social, Management System Document was given in 2016 AMR (See Annex-10) .
5	1.3	Create an "environmental council" consisting of environmental, H&S and social specialists from the operations to improve information exchange and strategic planning. As part of the EHS team and 'environmental council' Develop a procedure for an inspection and maintenance programme with regards to dam safety against ICOLD standards. Implement the inspection programme once the procedure is	2015 - ongoing		Summarize in annual report		The Environment Council was established to improve information exchange and strategic planning. In the Environment and Social, Management System, job definitions and organization diagram are given. The Environment Council determines social and environmental impacts of new investments and inform General Director about these issues. ICOLD audit procedure is applied in the scope of Environmental and Social Management System on dam safety. DOĞANÇAY HEPP and Çamlıca III

		<p>developed.</p> <p>As part of EHS management plan prepare an emergency response plan, (and implement when necessary) inclusive of an early warning procedures in case of flood threatening the public (typically for floods with a return period of five years or more).</p>					<p>HEPP were inspected within this scope on 24.11.2017 and 26.10.2017 respectively. Çamlıca III and Doğançay HEPP's have prepared an "Environmental Protection, Security and Warning Systems Guide for Energy Use Facilities" to be presented to the Ministry of Forest and Water Works-General Directorate of State Hydraulic Works Administration and Maintenance Department. These guidelines are still waiting for approval. The audit report is given in Annex-14.</p> <p>Emergency response procedure for HEPPs has been prepared within the scope of Environment and Social Management System. Emergency Response Plans have been established, including possible floods. Audible warning devices were also mounted.</p>
	1.4	<p>Develop and implement a Corporate and Social Responsibility (CSR) Policy for the Company. Create synergies with Akfen Group Foundation social investment activities.</p> <p>This programme should contain high quality information on objectives, methodologies, target dates and Key Performance Indicators (KPI) same as corporate</p>	2017 First report for 2017 in 2018		In annual report provide status of implementation Copy of the CSR report	This action will be on the agreement but will not be disclosed on IFC project data base	<p>As a social responsibility project, TIKAV has developed a project called 'Education at Home'. With this project, to be applied 15 project location of Akfen, women having children between 0-6 years of age were targeted to get training. The goal of the project; which will be implemented in rural areas, is to educate the target group not only to keep the education process but also to contribute to this process</p>

	<p>requirements. Develop a programme for community engagement for each plant. Prioritise the most vulnerable and affected communities in CSR projects.</p> <p>Publish CSR report, as part of disclosure of non financial information every year</p>					<p>in the home environment so that the children can become healthier individuals during the developmental period.</p> <p>Also, in the closing ceremonies planned to be held in the plants, it is also aimed to inform the public about the structure of the plant, their functioning and the issues that need to be taken into consideration by local community.</p> <p>The implementation of the project started in January 2017. Project summary and training presentation were given in 2016 AMR. Activity reports of the project are give in Annex-6.</p> <p>Coordinator for the implementation of this project: TIKAV Financier: Akfen Organization Supporter: Mukhtars and village health units.</p>
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1.5	Review and check the labour conditions of long term (>1 year) subcontractor companies providing services to the power plants.	2015/16 ongoing		Summary in annual report to EBRD and IFC	This action will be on the agreement but will not be disclosed on IFC project data base	Subcontractors providing long-term service for more than one year are contractors of Çalıkobası HEPP and Çiçekli HEPP projects. Within the scope of the Environmental and Social Management System, both construction sites were inspected by environmental engineers and OHS engineers. Environment and Occupational Health and Safety Assessment Forms included in the Environmental and Social Management System were used during the audit. These forms are prepared for questioning the requirements of national legislation and IFC-EBRD standards. The audit reports are given in Annex-7.
1.6	Development of an Energy Saving Programme and conduct energy efficiency audits at each power plant. This should be undertaken as part of ISO 50001 implementation.	2018			This action will be on the agreement but will not be disclosed on IFC project data base	ISO 50001 Energy Efficiency Management System was established at all plants. Energy efficiency studies made at Yağmur HEPP is given in Annex-15 as a sample . Performance figures and benchmarks were used to determine reference values. In this context, the values of heating and cooling degree - days, total number of personnel, total working hours, indoor usage areas, and consumption values per electricity generation amounts are determined. By the end of 2017, it was aimed to change the usage

							<p>habits, regular maintenance of the heating and cooling systems, method changes for the use of company vehicles and at least 5% saving in energy consumption.</p> <p>In this context, each power was checked by internal audits once a year as stated in Environmental & Social Management System. If there are deviations from the target, necessary corrective actions or new actions to achieve the targets set were determined.</p>
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	1.7	Improve health and safety, with appropriate training and PPE. Aim to attain LTIR to 1 by 2016 and Total recordable incidents (TRIR) to less than 5. This applies to company direct activities only.	2015-17			<p>This action will be on the agreement but will not be disclosed on IFC project data base</p> <p>Employees and staff in the plants were trained (see Annex 1 Training Records) to protect their health, safety and environment. They are also provided PPE in accordance with the work they are doing and explained the necessity and importance of using it in trainings. Within the scope of OHSAS Occupational Health and Safety Management System, P10: Establishment of Occupational Health and Safety Establishment Procedure is established. Depending on the procedure;</p> <ul style="list-style-type: none"> • P10-T02 Job Safety Awareness Training Instruction, and • P10-F02 PPE Delivery Notice are prepared and they are applied. <p>Examples of records the usage of PPE in construction sites and operations are given in Annex-8.</p> <p>The Lost Time Injury Rate (LTIR) for 2017 and the Total Recorded Incident Ratio are as follows: LTIR =0,23 TRIR = 0.94 Calculations are given in Annex-8</p>
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3	1.9	<p>Develop a procedure of independent impact assessment (EIA) on environment, biodiversity and local communities as well as cultural heritage for all new investments.</p> <p>This will include appropriate biodiversity assessments for birds and bats - and aquatic surveys (fish etc). Design mitigation measure for each Project.</p> <p>Any new project that would fall under the EU EIA Directive will include a screening assessment which will be conducted by Akfen and its advisors(unless a project falls into a category no approval is required) to define the scope of the due diligence . all projects will follow National legislation, - The final EIA may consist of a local EIA plus supplementary information as defined by the screening assessment on environmental and social issues.</p> <p>For all projects where an EIA is required - publish a Non Technical Summary (NTS) at the time of the zoning plan Stakeholder Engagement Plan (SEP) on internet and disclose as appropriate</p> <p>“A” kind, category, EBRD and IFC will approve the project</p>	2016(prose cure will be develop with in the first 6 months of 2016) onwards		<p>Summary of work undertaken in annual report and copy of NTS or link to web site with NTS in annual report.</p> <p>Any A category Project or located in a sensitives areas (IBA, Protected areas, Key Biodiversity Areas etc) to be subject to a non objection from EBRD and IFC prior to application for construction permit.</p>	<p>The document will prepare in the report will be made as a Turkish and a summary in English will be provided in the annual report under the decision making process</p>	<p>The procedure to be followed in order to evaluate the environmental, biological diversity, geographical features and cultural heritage characteristics of the investment area for new investments to be made by Akfen is described in Section 3.1.2 of the Environmental and Social Management System document(See Annex-10). For new investments in 2017 investment decisions were taken within the framework of sustainable development principles in order to protect the natural and social environment by considering environmental effects and alternative options.</p> <p>For this reason, Ecological Assessment Report (EAR), EIA Report, Landscape Restoration Report and Noise Reports of investment were evaluated monitoring reports were analyzed (See Annex-3) .</p> <p>Selectin/Election studies made for new investments are given in Annex-17.</p> <p>In accordance with these reports, measures are taken to protect nature, biodiversity and the social environment during construction and operation.</p> <p>The Non-Technical Summary and Stakeholder Participation Plan has been prepared for each project and</p>
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							announced to the public at Akfen web site www.akfenren.com.tr
1.10	<p>For any wind farm located in a bird sensitive areas defined in screening assessment by an ornithological or their advisers will undertake an appropriate bird and bat monitoring to assess environmental impacts.</p> <p>Any wind farm as defined in the screening assessment will need to include a cumulative assessment of all existing and planed wind farm projects in the near by area.</p> <p>No wind farm or hydro plant will be located on a Cultural Heritage site, or in a locally, nationally or internationally recognized protected area.</p> <p>As part of the screening assesment Akfen will review KBA (Key Biodiversity Areas) for key projects. The online version of Key Biodiversity Areas (Important Nature Areas) inventory in Turkish is available on: http://dogadernegi.org/yayinlarimiz.aspx and</p>	2015 ongoing		Annual report to the Bank	This action will be on the agreement but will not be disclosed on IFC project data base	<p>All 4 WPP projects which were developed in 2017 has Ecological Assessment Reports including ornithological assessmen(see Annex-3) ts. They also have landscapr restoration plans, noise and monitoring reports (see Annex-3) .</p> <p>ESMS Section 3.6.3 (see 2016 AMR) describes the selection / screening evaluations of ornithological, etc. for WPP projects. ESMS Section 3.8 defines the selection criteria for investments to be made in areas subject to cultural heritage or to be done in the case of cultural heritage encountered during construction.</p>	

		<p>http://milliparklar.gov.tr Based on the screening assessment any wind farm located near a sensitive bird habitat or bird migratory route requires prior approval- and the definition of the scope of due diligence by EBRD and IFC.</p>				
1.11	<p>The Company will not develop any new project that is located within an existing or potentially protected areas based on the screening areas.</p> <p>If a site is located in a potentially sensitive areas, as defined in the screening assessment such as National Parks, the scope of the EIA will be agreed with the EBRD and IFC</p>	Ongoing		Appropriate assessment of sites and , avoidance of sensitive locations.	Çatak HEPP project to be undertaken only if not located in A - protection area. If the court decides that the project is go ahead, the company will provide to EBRD and IFC an English version of the	<p>Projects are not developed in protected areas.</p> <p>The last situation in Çatak Project is given below: EIA process of Çatak HEPP was ended by the decision of Akfen because of problems related to protected area in project site and this investment was canceled.</p>

						ecological report for this project for non-objection from EBRD and IFC to proceed. This action will be on the agreement but will not be disclosed on IFC project data base	
10	2.1	Develop formalised Institutionalized human resources management system and procedures with special regard to grievance procedures. This should include welfare arrangements for construction workers prior to construction activities commencing.	End of 2017		Management system manual and policies to be submitted to EBRD and IFC		<p>P.05 Human Resources Procedure was established within the scope of ISO 9001 Quality Management System.</p> <p>In this procedure, staff recruitment work, staff assignments, deputation and manager / staff expertise, experience and skill criteria, training for new staff, performance criteria and evaluation, leave, cease of employment, health problems etc. How to provide and evaluate employee surveys, proposals,</p>

						<p>objections and complaints, personnel communication rules developed in line with the hierarchical structure, and internal discipline rules have been defined.</p> <p>In 2017 personnel performans evaluation was done and based on this evaluation wage updates and promotions were done. Training sessions were provided and activities were organized to increase personnel motivation.</p> <p>Procedures for monitoring and controlling subcontractor personnel are defined under the P10 Health and Safety Procedure and refer to this procedure in subcontracting contracts.</p> <p>The registration and evaluation of complaints of staff, stakeholders and third parties was done according to P03 Internal External Communication Procedure. The HR Prosedure was given in 2016 AMR.</p>
9	2.2	<p>Develop and adopt Human Resource Policy and management system covering all employees, on a best effort basis for contractors as well as sub-contractors, to include (but not be limited to)</p> <p>Approach to managing its workforce</p> <p>Management of worker relationships</p>	End of 2017		<p>Written HR policies compliant with EBRD PR2 / IFC PS2 and the national Labour Law</p> <p>HR policy developed and adopted: prior</p>	<p>OHS management and contractor auditing procedures to control of contractor during construction is expalined in ESMS (Section 4.5.1 and 4.5.2) in detail. ESMS was give in 2016 AMR.</p> <p>Procedures for monitoring and controlling subcontractor personnel are defined under the P10 Health and Safety Procedure and it is refered in</p>

		<p>Access to worker’s organisations</p> <p>Working conditions and terms of employment</p> <p>Child labour and forced labour policies</p> <p>Equal opportunities and non-discrimination</p> <p>Oversight provided of contractor policies/procedures</p>			<p>to further construction activities.</p> <p>Contractor policies/ procedures reviewed/ approved: prior to work on-site.</p> <p>HR Policies implemented throughout construction and operation.</p>		<p>subcontracting contracts.</p> <p>In addition, the Contractor is required to prepare the Occupational Health and Safety Management Plan for the construction activities to be undertaken. The contractor's workforce management procedures, working conditions and conditions of employment is specified in this plan. The contractor is allowed to start work on site unless the Plan is approved by AKFEN. The sites will be inspected before the activity starts. After construction starts, construction site audit was carried out (See Annex-7).</p>
	2.3	<p>Set up and maintain a formal grievance mechanism for employees and contractors and disseminate information about its uses to the workforce</p>	<p>Prior to construction</p> <p>In Annual report</p> <p>Summarize material issues to EBRD</p>		<p>Adoption of formal grievance mechanism detailed in the SEP</p>	<p>This action will be on the agreement but will not be disclosed on IFC project data base</p>	<p>The mechanism of grievances for stakeholders, employees and contractor personnel is defined in the ESMS Section 4.3.26 which was given in 2016 AMR.</p> <p>There is also a complaint form on the Akfen web page (www.akfenren.com.tr) that stakeholders can make complaints about the project.</p> <p>No staff complaints were received during this period.</p>
	2.4	<p>Arrangements should be in place for construction workers so that they should have access to welfare facilities such as drinking</p>	<p>At the time of the construction activities</p>		<p>Report should be submitted to EBRD/IFC-detailing</p>	<p>This action will be on the</p>	<p>During site inspections, workers' drinking water, toilet access, dining hall, accommodation and other social facilities are inspected and</p>

		water, toilets and dining facilities At the time of the construction of laydown area and more semi-permanent facilities. (Including storage area and construction of more semi-permanent plants)	commencing		arrangements to be put in place for construction workers At the time of the commencement of construction.	agreement but will not be disclosed on IFC project data base	questioned (See. Annex-7 questions 63,64, 65, 66 and 67 in the list of OHS audit). Drinking water analysis were done.
	2.5	Conduct regular employee standards audits to the best effort for contractor and sub-contractor employees to ensure compliance with the Labor Law and ILO Principles which Turkey is a party.	During construction and operation		Employee Standards Review Reports Summary of these reviews/audits should be provided in the Annual Report to EBRD and IFC	This action will be on the agreement but will not be disclosed on IFC project data base	On site inspections, the working conditions of the workers and social facilities provided to them were also monitored (See Annex-7).
	3.1	Ensure that the measures identified in the EHSS due diligence report with regards to prevention and minimisation of pollution risk is addressed. Undertake an internal audit at end of 2018 to assess compliance with the ESAP and findings of the EHSS. As part of EHS management systems develop an additional action plant	2018		End of 2018 Report on the issues identified and remedial actions taken or planned.	This action will be on the agreement but will not be disclosed on IFC project data base	Waste management practices were implemented in order to prevent possible pollution in power plants and sites. At each plant Waste Management Plans were prepared and approval was obtained according to regulations. Within the scope of ISO 14001 Environmental Management System, chemical usage, storage and wastes were monitored. Necessary measurement and monitoring was also done within the scope of system applications.

						Internal and external inspections were done to check the conformity of the applications to the management systems procedures.
15	3.2	Undertake an environmental monitoring assessment at each current and future HEPP location, to verify the biological effectiveness of the ecoflows. This should consider factors such as: are ecoflows able to maintain water quality (temperature, dissolved oxygen, etc.); can ecoflows support the maintenance of fish populations, particularly the more vulnerable species; and do ecoflows give the streams the capacity to support spawning, incubation, rearing, and passage of fish? Confirm that the presence and sizing of fish protection grids on	2018 or following commissioning of a new HEPP.	12/31/2018	Report on the findings of the assessment to EBRD/IFC by end of 2018 to be discussed by the KEY shareholders internal	Ecological flow amounts were determined by th Ministry of Forestry and Water Affairs. According to this requirement, HEPP 's ecological flows are recorded and monitored online by the existing observation stations. Eco-flow records were submitted to regional directorates of the Ministry. Çamlıca III HEPP is located on the Zamantı River which is one of the important branches of the Seyhan River and due to their topographical features fish gates had not been constructed. For this reason, 'Fish Caching, Transportation and Release'

		the water intakes are appropriate.				studies were done. This work was done in spring and autumn seasons in 2017 and report are given in Annex-10.
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	3.3	Presentation of greenhouse gas savings inventory to EBRD and IFC annually.	End 2016 and then each year after for the GHG inventory.		Report on the procedures and systems to be implemented to EBRD and IFC	This action will be on the agreement but will not be disclosed on IFC project data base	<p>Since Akfen's all plants operate with renewable energy, there is no greenhouse gas emission related to energy production. On the contrary, the energy generated in these plants causes greenhouse gas reduction. During the plant activities, there is a small amount of greenhouse gas release due to secondary activities such as transportation, generator work, etc.</p> <p>At construction sites, transportation, work machines, heating and generator operation causes greenhouse gas emission. Consumption and release amounts causing greenhouse gas emissions for each plant and construction site are given in Annex-9. Greenhouse gas account for each power plant and site given under the heading PS 3/PK3 were prepared based on data given in Annex-9.</p>
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11	4.1	<p>Akfen to review and align the H&S Plans in line with the EBRD PR4 / IFC PS2 and PS4 requirements. Plans should guide all Project-related activities during construction and operation. Requirements to include (but not be limited to):</p> <p>Job- and task-specific hazard and risk analysis and controls for activities.</p> <p>Provision of PPE, requirements for use of PPE, and enforcement of PPE use.</p> <p>Safety training for all personnel, covering hazards for their jobs.(i.e. Undertake driver safety training and code of conduct training for the drivers of the transfer trucks as well as drivers of employee service buses.)</p> <p>Develop an accident investigation program. Record incident statistics, including total work hours, serious injuries, lost time, etc.</p> <p>Develop a medical monitoring program for employees.</p> <p>Ensure implementation of a work permit system covering both workforce and contractors for dangerous tasks such as confined space.</p> <p>Establish and implement a “Lock</p>	2016- throughout the lifetime of the projects		Health and safety management plan copies of updated procedures records of internal and external audits	<p>Akfen OHSAS 18001 Occupational Health and Safety Management System has established P10 OCCUPATIONAL HEALTH AND SAFETY PLANT PROCEDURE. This procedure defines the OHS organization, hazard definitions and risk assessments, and work instructions. Depending on the procedure, the following instructions are prepared:</p> <ul style="list-style-type: none"> •P10-T01 Hazard / Near Miss Notification Instruction • P10-T02 Job Safety Awareness Training Instruction •P10-T03 Safety Instruction for Construction Site Electrical Works •P10-T04 Post-Accident Actions Instruction •P10-T05 Color Code Application Instruction • P10-F01 Hazard / Near Miss Notice Card • P10-F02 PPE Delivery Notice • P10-F03 Accident File Control Form • P10-F04 OHS Field Control Report • P10-L01 Accident List • P10-L02 OHS Trainings Plan •P10-L03 OHS Trainings Follow-Up Control List •P10-L04 Lifting Vehicle / Equipment Tracking Control List • P10-L05 Drill Plan • P10-L06 Drill Follow-Up Checklist •P10-L07 Hazard / Near Miss
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		<p>Out Tag Out” system. Implement workplace hazard monitoring. Place safety signage where necessary. Safety signage should address fire safety, emergency response, noise, PPE, no smoking, traffic control, etc.</p>				<p>Notifications Tracking List</p> <ul style="list-style-type: none"> • P10-L08 Fire-Fighting Equipment Follow-up Control List • P10-L09 Lightning Rod / Grounding Follow-Up Control List <p>The reports of the inspections made are given in Annex-7.</p>
12	4.2	<p>Review and update the current emergency response plans in consultation with responsible authorities and communities to cover at least fire, flood response, spills, severe injuries or fatalities, or other events that could reasonably be expected to occur within the lifetime of the projects in line with the EBRD and IFC requirements. Trainings and drilling exercises should be conducted on regular basis.</p>	2016-ongoing		Updated Emergency Response Plan	<p>Emergency Response Plans are prepared for all power plants. The update of the plans is checked. The Emergency Plans prepared for Demirciler HEPP is given in Annex-11 as an example.</p>
	4.3	<p>Regularly Monitor the firefighting system/equipment as necessary, including fire extinguishers in offices and operation areas. Provide relevant training to personnel and prepare/post relevant instructions.</p>	2016		Availability of firefighting equipment and fire water	<p>This action will be on the agreement but will not be disclosed on IFC project data base</p> <p>Emergency preparedness is explained in OHSAS P 10 OCCUPATIONAL HEALTH AND SAFETY PLANT PROCEDURE. Emergency preparedness and trainings are checked during plant and site inspections. Fire fighting trainings were given and drills were carried out in the plants (See Annex-1). Periodical maintenance of fire extinguishers was carried out. An example of the fire</p>

						extinguisher control is given in Annex-11.
14	5.1	Adopt a formal grievance mechanism, enact the Stakeholder Engagement Plan and develop a land acquisition and compensation framework.	2017		<p>Document stakeholder engagement activities to include land acquisition Annual report on stakeholder engagement</p> <p>Provide report to EBRD and IFC with regards to land acquisition framework</p>	<p>Preparation of stakeholder participation plan, land acquisition procedures and grievance mechanism were defined in ESMS document (given in 2016 AMR) of Akfen. The stakeholder engagement plan aims to ensure that all the stakeholders (local people, social movements, media, private sector, universities, non-governmental organizations, etc.) are closely recognized and their involvement is addressed. Thus, the concerns, expectations and demands of local people, non-governmental organizations, local governments and other related groups are determined and evaluated, based on ecological sensitivity and scientific basis, taking into consideration the regional characteristics. SEPs were prepared for all projects. SEPs of new WPP</p>

							projects are given in Annex-13. SEPs of other project were given in 2016 AMR.
	5.2	Implement the SEP (See Action 10.1 to develop an SEP) and a formal grievance mechanism, and continued consultation with people affected by land acquisition	Prior to land acquisition as required		Document stakeholder engagement activities to include land acquisition Annual report on stakeholder engagement	This action will be on the agreement but will not be disclosed on IFC project data base	Stakeholder participation plans prepared for the new projects in which land acquisition studies were conducted during this period are given in Annex-13.
	5.3	Provide an update on the progress to close out all land acquisition claims with regards to Doruk	June 2016		Provide report to EBRD and IFC quarterly on progress	This action will be on the agreement but will not be disclosed on IFC project data base	Up-to-date information on land acquisition at Doruk HEPP is given in Annex-12.
13	5.4	Develop a land acquisition and compensation framework for the purchase of land for new projects	End of 2016		Provide report to EBRD and IFC with regards to		Procedures for land acquisition are described in ESMS Section 3.5 which was given in 2016 AMR. This

	<p>the framework where possible and to the extent when possible will include associated infrastructure such as powerlines. For each project undertake risk assessment associated infrastructure even if not developed by Akfen.</p> <p>The objectives of the framework should describe how to:</p> <ul style="list-style-type: none"> avoid or minimise resettlement, economic displacement consider feasible alternative project designs mitigate adverse social and economic impacts from land acquisition provide compensation for loss of assets at replacement cost improve or, at a minimum, restore the livelihood and standards of living 			land acquisition framework		<p>document describes the procedures to be followed when a need arises for the acquisition of temporary or permanent, public or private, land or any immovable property, whether within or outside the project area.</p> <p>Ecological studies have been carried out for ETL and the effects on living environment been taken into consideration.</p> <p>EIA positive decision was obtained for Yaysun SPP ETL.</p>
6.1	<p>Undertake pre-construction ecological surveys and develop site mitigation / protection plans, for Energy Transmission project in the locations where the EIA has identified that protected species are present.</p>	<p>Prior to construction commencement.</p>		<p>Provide report to EBRD and IFC with regards the material findings of the surveys and measures implemented which will be used internally</p>	<p>This action will be on the agreement but will not be disclosed on IFC project data base</p>	<p>EIA positive decision was obtained for Yaysun SPP ETL. Ecological survey of ETL route is included in EIA report.</p> <p>EIA report for Denizli WPP was also prepared including ecological surveys. Usual EIA process is going on for this project. Preparations for ETL design projects are ongoing for the other WPP projects.</p>

6.2	Based on the screening study undertake location specific terrestrial ecological and birds and bats surveys for all new windfarm locations, to assess resident species risk, migratory and general bird related risks, and ensure adequate mitigation is featured as part of the project designs.	As part of planning for all future windfarms, completed prior to detailed design finalisation.		Provide report to EBRD and IFC - with regards the findings of the surveys and measures implemented.	This action will be on the agreement but will not be disclosed on IFC project data base	All four WPP projects developed in 2017 has Eco-Sysstem Assessment Reports. Ornitological surveys are also included in these reports especially for bats and birds. Üçpınar WPP, Kocalar WPP, Hasanoba WPP and Denizli WPP projects have noise maps and landscape restoration plans also. These palns are given in Annex-3. Monitoring works were also done at project areas.
6.4	Maintain a post construction monitoring system for hydro and wind farms to asses post construction impacts and as necessary develop mitigation measure to limit such impacts. These can be through active turbine management or flow management.	Ongoing		Compliance with permits and best practice to limit net ecological impact. Information in annual report. To be verified every 5 years by independent audit.	Action plans could result in reduction of operations. This action will be on the agreement but will	Our WPP projects are in pre-construction preparation phase at the moment. No HEPP has not been completed in this period but,construction of first plant at Çalıkobası HEPP projects was completed, construction of the second plant is continuing. A measurement program will established to monitor/measure activities specified in the Ecosystem Assessment Report (EAR) during construction and operational stages, to be carried out under national

						not be disclosed on IFC project data base	<p>legislation. This will limit the effects of plant activities on environment and, if necessary, actions will be set as mitigation measures.</p> <p>There is a Flow Monitoring Station (FMS) in active HEPPs. Thanks to these FMSs located in the downstream section of the HEPP, the amount of ecological water left is measured continuously. The flow values are also transferred online to DSİ. At the request of DSİ, the camera system is also installed and the FMS's are also controlled by the camera. Control of activities and applications are done by internal audits every year and external audits to be carried out every 5 years.</p>
6.5	Maintain a minimal water flow on all hydro project for all to ensure that not biodiversity loss and no negative impact on downstream water users.	Ongoing		<p>Compliance with permits and best practice to limit net ecological impact.</p> <p>Information in annual report. To be verified every 5 years by independent audit.</p>		This action will be on the agreement but will not be disclosed on IFC project data base	Care is taken to ensure the necessary ecological flow / life water and the amount of agricultural irrigation in the existing HEPPs in accordance with the project's EAR in which the amount of water determined as the amount of ecological flow, is left. For this purpose, a Flow Monitoring Station is located downstream of each HEPP.

1	7.1	<p>For each new project, the EIA process should take into account issues of cultural heritage. The development and implementation of the 'coincidental find process' which will be used during all construction activities and will support the management of archaeological findings.</p>	<p>End of 2016 training to be implemented as part of EHS management system development</p>		<p>Completed EIA accepted and assessed by national regulator.</p>	<p>A chance find procedure was established to protect cultural heritage., it is explained in detail in Section 3.8 of ESMS given in 2016 AMR.</p> <p>During this period, there was no evidence of cultural heritage on the project sites.</p>
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6	10.1	<p>Develop and implement a corporate Communication Plan and implement such plans at the companies' level. Develop separate Stakeholder Engagement Plans (SEP) for each project (at least for each major investment). This should include the development and implementation of a Grievance Mechanism. The SEP should be reviewed and if necessary updated annual or when changes occur in the Projects. The SEP (s) should address potential issues that may be raised by NGOs in Turkey. If necessary, or request arrange for meetings as appropriate. As part of SEP and EHS management prepare a register of risks for the public and develop and implement and monitor mitigation measures. The register should be prepared by a specialist used with the implementation of international Industry good practices on hydropower schemes.</p>	2016-ongoing throughout the lifetime of the projects	12/31/2016	SEP published on website and disclosed to affected stakeholders. Summary of the implementation in Annual reports to EBRD and IFC		<p>The registration and evaluation of grievances from staff and third parties are described in P03 Internal External Communication Procedure. A Stakeholder Engagement Plan has been prepared for all projects and SEPs for new projects are given in Annex-13. The other SEPs were given in 2016 AMR. SEPs and grievance mechanism prepared for Akfen is presented to all stakeholders.on the Akfen web page. Prepared SEPs are reviewed annually and necessary revisions are made.</p>
7	10.2	<p>Monitor implementation of the SEP and grievance mechanism to ensure a continuous and systematic stakeholder</p>	2016-ongoing throughout the lifetime		Document stakeholder engagement activities		<p>A Stakeholder Engagement Plan has been prepared for new projects and given in Annex- 13, stakeholder complaints received in 2017 are</p>

		engagement programme throughout the projects life cycle. Documentation of all stakeholder activities and logging of grievances to inform the annual monitoring report. The SEP should be reviewed and if necessary updated annual or when material changes occur in the Project.	of the projects		Document grievances, response to grievances with records maintained. Provide summary in Annual report on stakeholder engagement activities and grievances		presented at Table.7 of 2017 AMR. SEPs and grievance mechanism are presented to all stakeholders on the web page prepared for Akfen. Prepared SEPs are reviewed annually and necessary revisions are made.
8	10.3	Develop a Corporate internet site, with inclusive of a sustainability page and disclose as appropriate NTS and community information brochures for new Projects on this web site	2016		Link to web site in annual report		At www.akfenren.com.tr there are public information brochures presented for review of stakeholders and non-technical summaries presented for new projects.
	10.4	Develop a Non-Technical Summary (NTS) as appropriate and community leaflet for each new project in construction or to be developed in the future providing a project description, the ESIA process, the environmental and social benefits/impacts, mitigation and management measures and the contact details for communications with a link to the SEP	As part of the development , planning, design, construction and commissioning of each project		Disclosure of SEP and NTS	This action will be on the agreement but will not be disclosed on IFC project data base	Brochures prepared to inform the public about Çalıkobası HEPP and Çiçekli HEPP which are in the construction phase were given given in 2016 AMR. Brochures for Amasya & Tokat SPPs prepared in this period are given in Annex-5. NTS are prepared and presented in Akfen web page. NTSs of new projects are given in 2017 AMR Section IV. Brochures for these projects will be prepared in 2018 and published at the web site to inform stakeholders.

	10.5	Appointment of a Public Relations Officer with appropriate skills and experience in effectively managing SEP implementation in every scene	Before the construction		Determination of Public Relations Officer. Organization chart	This action will be on the agreement but will not be disclosed on IFC project data base	Burak SOLMAZ was appointed as Public Relations Officer at the company headquarters and will continue this job in 2018 too.
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Table 27- Action Plan Status (ESAP)

AMR SECTION VI

DEVIATIONS/NON-COMPLIANCES

Deviation/non-compliances are identified in reference to the following:

(i) IFC's Performance Standards; (ii) Environmental and Social Action Plan; (iii) Non-compliance with local environmental and social regulations (iv) Applicable EHS Guidelines

If there is any non-compliances/deviations please record and provide additional information if necessary.

Please explain the cause and, if appropriate, describe the planned corrective actions to prevent re-occurrence.

Areas of Interest	Identified Non-Conformities	Corrective Action Plan	Completion Status	Completion Date
IFC / EBRD Performance Standards (PS1-8, PK1-10)	1. An assessment about shadow flicker and ice throw at WPP has not been done	Proposals have been collected for these assessments. An preparation of these scientific reports were started.	Assessment reports are being prepared.	30 January 2018
	2. Emergency response drills were not conducted with the participation of local people in all HEPPs.	EMR training and drills will be planned and carried out with the participation of local people which are likely to be affected from floods and other emergencies at all HEPPs. Under the OHSAS 18001 system, EMR preparations will be continuously monitored through system approach and duplication of the same inconvenience will be avoided. For this reason, Off-Site Emergency Response plans were prepare for ech plant and trainings, drill will be done according to these plans.	Plans will be made in February 2018 and training and drills will be organized starting from March 2018 when better weather conditions start.	31 May 2018

	3. Traffic Management Plan has not been prepared for new WPP projects.	For each WPP plant a traffic management plan will be prepared considering local characteristics and settlements in the area including construction activities.	The necessary planning to prepare the Traffic Management Plan has been made and will be started in March 2018 when weather conditions enable going to project area .	30 June 2018
	4. Quality Sysytem Implementations shoul be started at SPP which started to operate in 2017	Training will be given to plant personnel about quality systems, documents will be introduced and then implementations will be started.	Not started yet	30 June 2018

Table 28- Deviation/Non-Compliances

ANNEXES:

- Annex.1 2017 Training Records
- Annex.2 Accident Reports
- Annex.3 WPP Projects PIF, ESR, Noise Reports, Landscape Restoration Reports and Ornithological Monitoring Reports
- Annex.4 Measurement Reports
- Annex.5 Amasya SPPand Tokat SPP Brochures, Biodiversity Action Plan and Monitoring Reports
- Annex.6 TIKAV Activity Reports
- Annex.7 Plant and Construction Site Audit Reports
- Annex.8 PPE Voucher and LTIR Calculation
- Annex.9 Greenhousegas Emission Calculation
- Annex.10Çamlıca III HEPP Fish Transportation Report
- Annex.11Emergency Response Plan and ve Fire Extinguisher Monitoring Record
- Annex.12 Up To Date Information about Expropriations for Doruk HEPP
- Annex.13 Stakeholder Engagement Plans
- Annex.14ICOLD Audit Reports
- Annex. 15Energy Efficiency Works
- Annex.16 Sample Traffic Management Plan
- Annex.17Selection / Election Assessment for New Projects
- Annex.18Sample Off-Site Emergency Plan