ENVIRONMENT AND SOCIAL PERFORMANCE ANNUAL MONITORING REPORT (AMR)

Akfen Renewable Co. INC.
Turkey

IFC Project Number: 36772
EBRD Project Number: 47631

REPORTING PERIOD: 2019
AMR COMPLETION DATE : 13December 2019

IFC Department of Environment, Social and Administrative
2121 Pennsylvania Avenue, NW
Washington, DC 20433 ABD
www.ifc.org/enviro

EBRD Department of Environment, Social and Administrative
One Exchange Square
London EC2A2JN
www.ebrd.com

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ABBREVIATIONS

AKFEN	Akfen Renewable Energy
AMR	Annual Monitoring Report
Ç&S	Environment and Social
CSGB	The Ministry of Labor and Social Security
CSR	Corporate and Social WPPponsibility
DSİ	State Hydrolic Works
EAR	Ecosystem Assessment Report
EBRD	European Bank For Reconstruction and Development
EMR	Emergency WPPponse
EMRP	Emergency WPPponse Plan
EIA	Environmental Impact Assessment
EHS	Environment, Health and Safety
EHSS	Environment, Health, Safety, Social
ESMS	Environmental Social Management System
ETL	Energy Transmission Line
ESAP	Environmental and Social Action Plan
ESIA	Environmental and Social Impact Assessment
EPC	Engineering Procurement Construction
FFE	Fire Fighting Equipment
HEPP	Hydroelectric Power Plant
HR	Human WPPouces
HS	Health and Safety
IFC	International Finans Corporation
ICOLD	International Commission of Large Dams
LTIR	Lost Time Injury Rate
M-FILES	Tracking-Archiving Software
NGO	Non-Governmental Organization
NTS	Non-Technical Summary
TEDAŞ	Turkey Electricity Distribution Co. INC
TEİAŞ	Türkiye Elektrik İletim A.Ş.
TİKAV	Turkey Human WPPources in Health and Education Foundation
TS	Tranformer Station
TRICOLD	Turkish Grand National Committee of International Large Dams Commission
TRIR	Total Recordable Injury Rate
PPE	Personel Protector Equipment
PIF	Project Information File
PS	IFC Performance Standard
PK	EBRD Performance Standard
SAP	Accounting-Finance Software
SEP	Stakeholder Engagement Plan
SPP	Solar Power Plant
WPP	Wind Power Plant

- 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.

- Project Information
- Client's RepWPPentation Statement by Sponsor authorized repWPPentative
- 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 2019 – December 2019 period were carried out by ARMA Environmental Occupational Health And Safety Consultancy Engineering Limit Company as third party.

Environmental and Social Management System document was given in Annex-19. Environmental and Social Management System Documents and Quality Management System practises were in progress in 2019

- AMR SECTION II -

CLIENT'S REPRESENTATION STATEMENT BY SPONSOR AUTHORIZED REPRESENTATIVE

I, Kayrıl KARABEYOĞLU in my role of General Manager and we, Mustafa Kemal GÜNGÖR, Kürşat TEZKAN and Mehmet YEŞİLKAYA in our role of Assistant General Manager and representing Akfen Company certify that:

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.

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;

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.

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.

05/12/2019

Kayrıl KARABEYOĞLU
General Manager

Mustafa Kemal GÜNGÖR Assistant General Manager	Kürşat TEZKAN Assistant General Manager	Mehmet YEŞİLKAYA Assistant General Manager

- AMR SECTION III -

SUMMARY OF KEY E&S ASPECTS DURING THE REPORTING PERIOD

This section aims to identify the key E&S programs/activities/incidents during the reporting period (include Summary of Key Findings for the Reporting Period e.g. non-compliances, significant incidents, 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/

☐ Design ☒ Construction ☐ Extention ☒ Operation ☐ Closure ☐ Other (explain)

Is the new investment in the process of developing? ☒ Yes ☐ No

- **Demirciler WPP-Sarıtepe WPP Projects included in the evaluation;** Acquisition process negotiations with Zorlu Energy Co. INC. are continuing for Demiriler (23,3 MW) and Sarıtepe (57 MW) WPP projects which are called as Project Taurus in the Bahce District of OSMANİYE Province. In this context, ESDD was made by Golder and in case of transfer process, all necessary actions will be taken within the scope of ESAP.
- **Fırıncı SPP Project with permission processes in progress;** 15 turbines were commissioned within the scope of Hasanoba WPP project. At the request of the stakeholders, T1 and T2 turbine locations were changed. Administrative permission processes for these new locations are continuing. As of the current situation, a forest permit application has been filed and it is expecting to take permission.
- **Hasanoba WPP Turbine Relocation;** The project area has been moved to 250 meters north direction in the scope of Fırıncı SPP Project due to the consolidation project carried out by the administration in the project area. Administrative permission processes for the new area are in progress. Decision of EIA Not Required was revised and zoning plan application has been made in the current situation. Construction works are expected to start within 2-3 months.
- **Capacity increases of WPP Projects;** Applications for capacity increase for 95 MW related to existing wind projects were evaluated by TEİAŞ and General Directorate of Energy Affairs, 85 MW were found positive and reported to Energy Market Regulatory Authority (EPDK). EPDK board decision of total 60 MW for Kocalar, Denizli and Üçpınar WPP projects has been issued and official permission process has been started. EPDK board decision is expected in the Hasanoba WPP project.

Ongoing capacity increases in permit processes are summarized below

	Permit Process	Current Capacity	New Capacity	Total Capacity Increase
Kocalar WPP	EPDK Board Decision was taken	30,6 MWm / 26 MWe	55,6 MWm / 51 MWe	25 MWm
Denizli WPP	EPDK Board Decision was taken	74,8 MWm / 66 MWe	99,8 MWm/ 91 MWe	25 MWm
Üçpınar WPP	EPDK Board Decision was taken	112,2 MWm /99 MWe	122,2 MWm / 109 MWe	10 MWm
Hasanoba WPP	EPDK board decision has been waiting	57,8 MWm / 51 MWe	82,8 MWm / 76 MWe	25 MWm
			TOTAL CAPACITY INCREASE	**85 MWm**

The Company's current projects in 2019 are given in the Table 1 below. Drone photos of all operations in 2019 are given in this section (See. Photograph 1-25)

AKFEN RENEWABLE ENERGY PROJECTS										
No	Proje Name	Project Status						Installed Power (MWm)	Location	Date of Commission
		Permit Process	Construction	Capacity Increase	Operation	Closure	Other			
1.	SIRMA HEPP				✓			6,7	Aydın	2009
2.	DEMİRCİLER HEPP				✓			26,3	Denizli	2011
3.	OTLUCA HEPP				✓			48,8	Mersin	2011
4.	SARAÇBENDİ HEPP				✓			26,3	Sivas	2011
5.	ÇAMLICA HEPP				✓			28,5	Kayseri	2011
6.	YAĞMUR HEPP				✓			9,2	Trabzon	2012
7.	KAVAKÇALI HEPP				✓			11,4	Muğla	2013
8.	GELİNKAYA HEPP				✓			7,1	Erzurum	2013
9.	SEKİYAKA II HEPP				✓			3,5	Muğla	2014
10.	DORUK HEPP				✓			28,9	Giresun	2014
11.	DOĞANÇAY HEPP				✓			31,6	Sakarya	2014
12.	ÇALIKOBASI HEPP				✓			18,1	Giresun	2018
13.	ÇİÇEKLİ HEPP*		✓		✓			7	Artvin	2019
14.	DENİZLİ SPP - Unlicenced				✓			7,4	Denizli	2015
15.	SOLENTEGRE SPP				✓			9,1	Elazığ	2016
16.	SOLENTEGRE SPP Unlicenced				✓			0,6	Elazığ	2016
17.	AKFEN RENEWABLE SPP				✓			0,5	Elazığ	2017
18.	AMASYA BOYALI SPP				✓			11,2	Amasya	2017
19.	TOKAT KUŞOTURAĞI SPP				✓			5,6	Tokat	2017
20.	OMICRON ENGİL 208 SPP				✓			12,1	Van	2018
21.	OMICRON ERCİŞ SPP				✓			12,1	Van	2018
22.	ME-SE SPP				✓			12,1	Konya	2018
23.	MT SPP				✓			12,1	Konya	2018
24.	YAYSUN SPP-Unlicenced				✓			0,62	Konya	2014
25.	YAYSUN SPP				✓			12,1	Konya	2018
26.	HASANOBA WPP*		✓		✓			51	Çanakkale	2019
27.	KOCALAR WPP *		✓		✓			30,6	Çanakkale	2019
28.	ÜÇPINAR WPP *		✓		✓			112,2	Çanakkale	2019
29.	DENİZLİ WPP *		✓		✓			74,8	Denizli	2019
30.	PSI ENGİL 207 SPP *		✓		✓			13	Van	2019
Construction Works Ongoing Projects										
-	-	-	-	-	-	-	-	-		-
Pre-Construction Works Ongoing Projects										
31	FIRINCI SPP	✓					✓	Preliminary license was taken, studies are ongoing to obtain a license		

***Hasanoba WPP, Kocalar WPP, Üçpınar WPP, Denizli WPP, PSI ENGİL 207 SPP and Ccekli HEPP Projects are commissioned in 2019 after construction works were completed in the same year.**

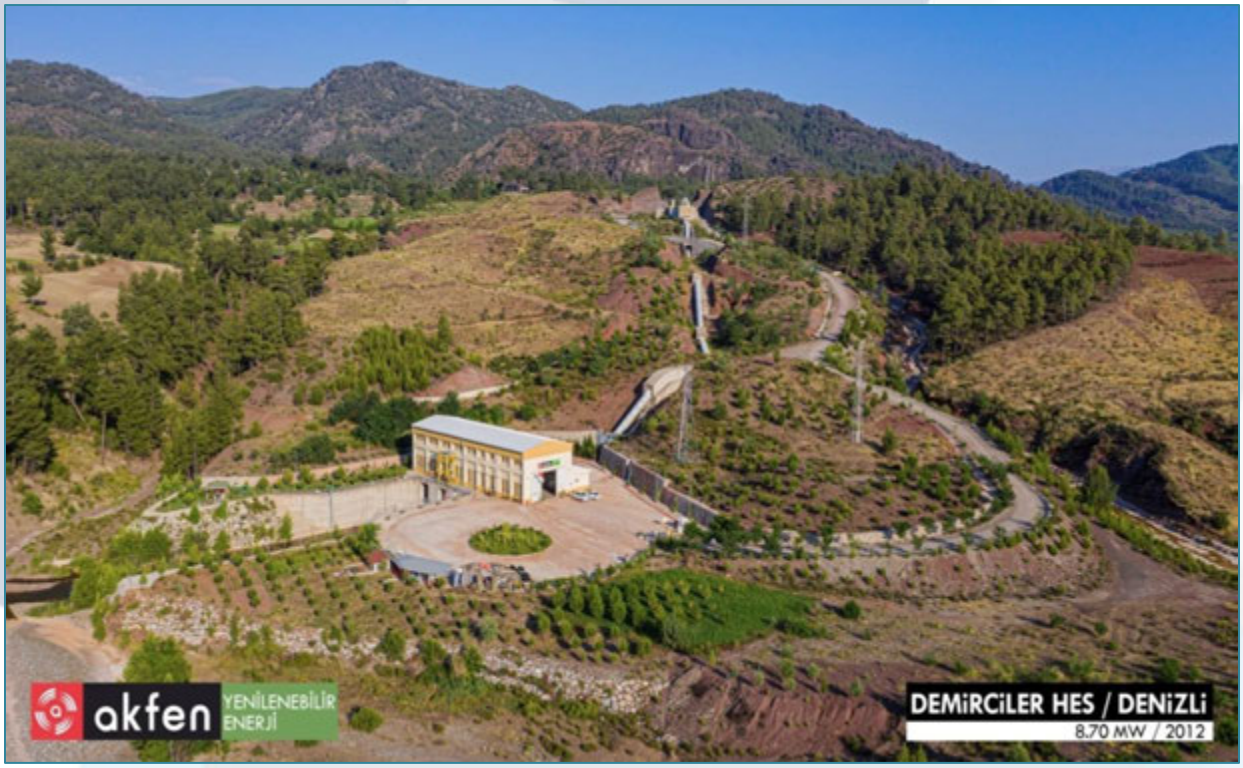
Table 1- Akfen Renewable Energy Co. Inc. Projects

Information about projects are commissioned in 2019 after construction works were completed in the same year is given in Table 2.

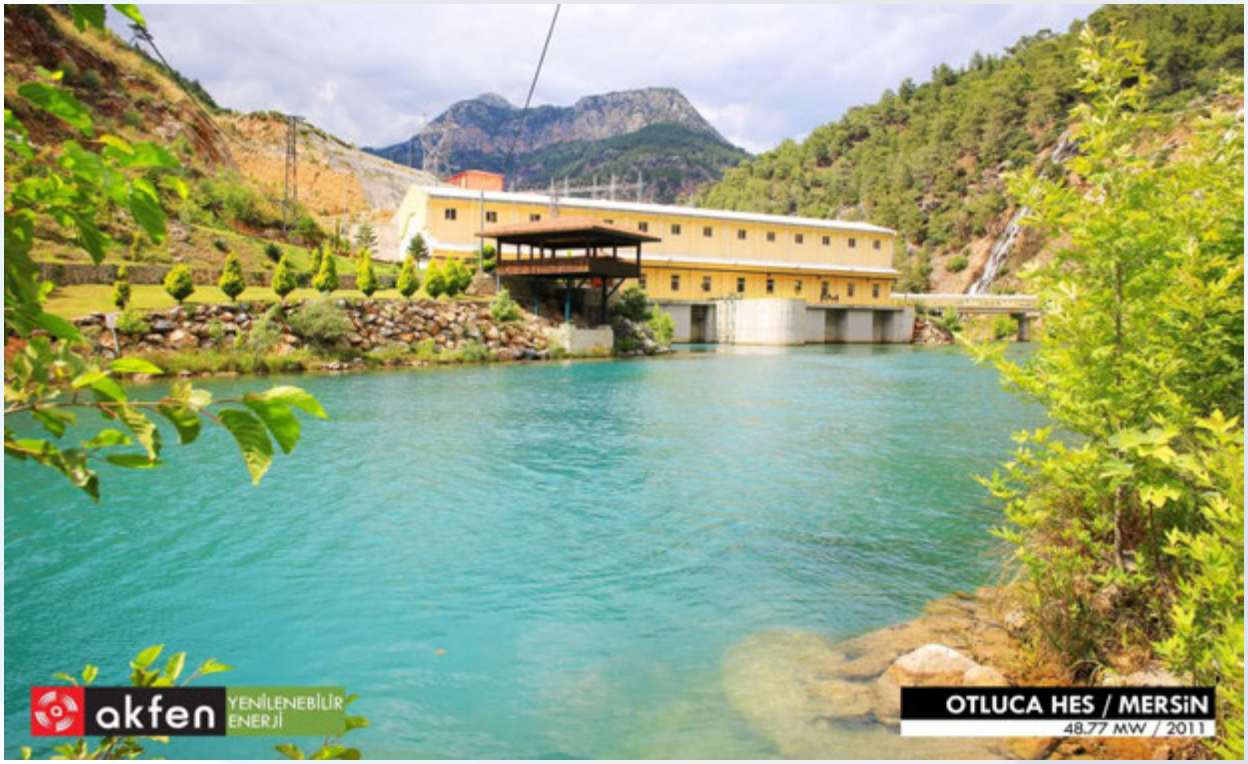
Projects	Location	Contractor	Date of Commission
Kocalar WPP Project	Çanakkale	Siemens Gamesa	14.03.2019
Üçpınar WPP Project	Çanakkale	Siemens Gamesa	10.05.2019
Hasanoba WPP Project	Çanakkale	Siemens Gamesa	02.08.2019
Denizli WPP Project	Çanakkale	Siemens Gamesa	13.09.2019
Çiçekli HEPP Project	Artvin	Akfen İnşaat A.Ş.	26.09.2019
PSI Engil 207 SPP Project	Van	Elin A.Ş.	25.07.2019

Table 2- Information on Projects Completed and Commisssioned in 2019

Photograph 1- Sırma HEPP



Photograph 2- Demirciler HEPP

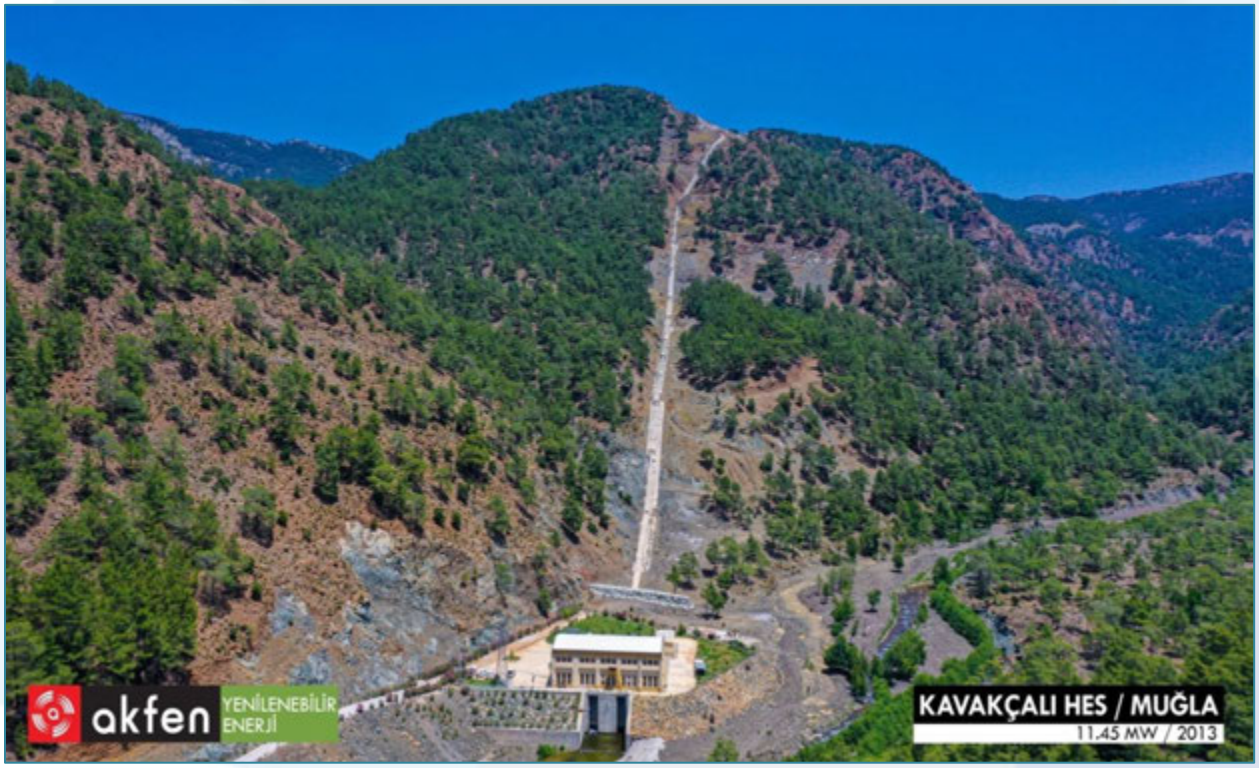


Photograph 3- Otluca HEPP

Photograph 4- Saraçbendi HEPP

Photograph 5- Çamlıca III HEPP

Photograph 6- Yağmur HEPP



Photograph 7- Kavakçalı HEPP

Photograph 8- Gelinkaya HEPP

Photograph 9- Sekiyaka HEPP

Photograph 10- Doruk HEPP

Photograph 11- Doğançay HEPP

Photograph 12- Çalıkobası HEPP

Photograph 13- Çiçekli HEPP

Photograph 14- Denizli SPP

Photograph 15- Solentegre SPP – Solentegre SPP (Unlicenced) – Akfen Renewable SPP

Photograph 16- Amasya SPP

Photograph 17-Tokat SPP

Photograph 18- Omicron Engil 208 SPP – Omicron Erciş SPP – PSI Engil 207 SPP

Photograph 19-ME-SE SPP

Photograph 20- MT SPP

Photograph 21-Yaysun SPP – Yaysun SPP (Unlicenced)

Photograph 22- Hasanoba WPP

Photograph 23- Kocalar WPP

Photograph 24- Üçpınar WPP

Photograph 25- Denizli WPP

PS1, PK1: 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.

Management System	Date of First Certification	Interim Audit Dates	Certification Revision Date	Successfully Implemented
ISO 9001: 2015 Quality Management System	25.01.2017	The first interim inspection has been completed before 25.01.2018. Second interim inspection has been completed before 25.01.2019.	02.10.2019	☒
ISO 14001: 2015 Environmental Management System	25.01.2017	The first interim inspection has been completed before 25.01.2018 Second interim inspection has been completed before 25.01.2019.	02.10.2019	☒
OHSAS 18001: 2007 Occupational Health and Safety Management System	01.02.2017	The first interim inspections have been completed before 01.02.2018. Second interim inspection has been completed before 01.02.2019.	02.10.2019	☒
ISO 50001 :2001 Energy Management System	01.02.2017	The first interim inspections have been completed before 01.02.2018. Second interim inspection has been completed before 01.02.2019.	02.10.2019	☒

Table 3- Management Systems Certification Information

ISO 9001 Quality Management System, ISO 14001 Environmental Management System, OHSAS 18001 Occupational Health and Safety Management System and ISO 50001 Energy Management System implementations are going in Akfen Head Office and operations. In our projects under construction, the audits of contractor companies are carried out as required by our quality management system. Quality system works are started immediately at the commissioned power plants and personnel are informed about the applications..

Certificates of Management Systems and their annexes are given in Figure 1-2-3-4-5-6-7-8.

Standards taken into consideration in establishing an integrated management system;

1. ISO 9001: 2015 Quality Management Systems – Requirements
2. ISO 14001: 2015 Environmental Management Systems - User Manual and Requirements
3. BS OHSAS 18001: 2007 Occupational Health and Safety Management Systems - Specification
4. UNI CEI EN ISO 50001: 2011 Energy Management Systems - User manual and requirements

Developments of Integrated Management System:

The first certification process was completed on the dates 25.01.2017 and 01.02.2017. interim audits, The number of certified sites was increased to 18 with interim audits in the 2019.

The revisions to the integrated management system are listed below.

Our corporate policies have been revised considering the following references and are given in Table 4.

ORGANIZATION	CONVENTION NO	CONVENTION NAME
ILO - international Labor Organization	29	Forced Labor
	42	Workmen' s Compensation
	59	Minimum Age
	67	Hours of Work and Rest Period
	98	Right to Organize and Collective Bargaining
	100	Equal Remuneration
	111	Discrimination
	118	Equality of Treatment
	135	Workers' Representatives
	142	Human Resources Development
	155	Occupational Safety and Health
	187	Promotional Framework for Occupational Safety and Health
	PRINCIPLES NO	**EXPLANATION**
UNGC – Principles of the UN Global Compact	01:02	Human Rights
	03:06	Labour
	07:09	Environment
	10	Anti-Corruption
	GOAL NO	**EXPLANATION**
UN – United Nations Sustainable Development Goals	3	Good Health and Well-Being
	4	Quality Education
	5	Gender Equality
	8	Decent Work and Economic Growth
	10	Reduced Inequalities
	12	Responsible Consumption and Production
	13	Climate Action
	14	Life Below Water
	15	Life on Land
	16	Peace, Justice and Strong Institutions
	GUIDELINE NO	**EXPLANATION**
OECD - Organization for Economic Cooperation and Development Guidelines for Multinational Enterprises	1	Concepts and Principles
	2	General Policies
	3	Disclosure
	4	Employment and Industrial Relations
	5	Environment
	6	Combating Bribery
	7	Consumer Interests
	8	Science and Tecnology
	9	Competition

Table 4- Policy Revision References

Procedures applied and developed within the scope of Quality Management System;

Especially within the framework of corporate policy revisions;

✓P03 INTERNAL / EXTERNAL COMMUNICATION PROCEDURE,

✓P05 HUMAN RESOUCES PROCEDURE,

✓P11 ENVIRONMENTAL INTERACTION PROCEDURE,

✓P10 OCCUPATIONAL HEALTH AND SAFETY PROCEDURE

- The Human Resources department has been initiated “Humanist” program to monitor and control worker’ s performance. All personnel performance measurements will be performed by using this program in 2020. This program will ensure that staff objections and complaints are obtained. Besides that, the Human Resources Department will notify the Humanist program at least once a year to all employees and request running of the system. This will provide information on working conditions, relations with staff and supervisors.

- The M-Files (It is a program introduced in 2017 for internal communication, digital formation and document management.) program was developed and made available for asset management.

- ID MACRO program was developed. (Used since 2014)

- Visual materials (slides) have been developed for distance education. Training brochures are designed for employees. The training content has been improved.

- The SAP program purchasing, planning, finance, HR, payroll, accounting etc. operations are carried out, has been in use since 2016 and has been continuously developed.

This document cancels and replaces the equal number certificate issued on 26/01/2017.

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Certificate No. / *Certificato N.* **8332/0**

WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY
SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI

AKFEN YENİLENEBİLİR ENERJİ A.Ş.

HEAD OFFICE / *SEDE LEGALE*
İLKBAHAR MAHALLESİ GALİP ERDEM CADDESİ NO:3 ORAN ÇANKAYA ANKARA TURKEY

For Operative Units See Annex

IS IN COMPLIANCE WITH THE STANDARD / *È CONFORME ALLA NORMA*

ISO 9001:2015

Quality Management System / *Sistema di Gestione per la Qualità*

FOR THE FOLLOWING ACTIVITIES / *PER LE SEGUENTI ATTIVITÀ*

Enerji üretimi ve satiş faaliyetleri

Energy production and sales activities

Refer to the documentation of the Quality Management System for details of application to reference standard requirements.
Riferirsi alla documentazione del Sistema di Gestione per la Qualità aziendale per l'applicabilità dei requisiti della norma di riferimento.
The use and the validity of this certificate shall satisfy the requirements of the ICIM document "Rules for the certification of company management systems" and specific Scheme.
Il presente certificato è soggetto al rispetto del documento ICIM "Regolamento per la certificazione dei sistemi di gestione" e al relativo Schema specifico.
For timely and updated information about any changes in the certification status referred to in this certificate, please contact the number +39 02 725341 or email address info@icim.it.
Per informazioni puntuali e aggiornate circa eventuali variazioni intervenute nello stato della certificazione di cui al presente certificato, si prega di contattare il n° telefonico +39 02 725341 o indirizzo e-mail info@icim.it.

FIRST ISSUE *DATA EMISSIONE*	CURRENT ISSUE EMISSIONE CORRENTE	EXPIRING DATE *DATA DI SCADENZA*
25/01/2017	02/10/2019	24/01/2020

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0449CM_03_IT

Figure 1-ISO 9001:2015 Quality Management System Certificate

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Annex to Certificate No.
Allegato al Certificato N.

8332/0

ISSUED TO / *RILASCIATO A*

AKFEN YENİLENEBİLİR ENERJİ A.Ş.

Included the following operative unit:
Comprende oltre la sede centrale citata sul certificato, anche le seguenti unità decentrate:

• OTLUCA HES (HYDRO ELECTRIC)
ÇALTIBÜKÜ KÖYÜ DİBEK MAHALLESİ ANAMUR MERSİN
• SIRMA HES (HYDRO ELECTRIC)
SIRMA KÖYÜ BOZDOĞAN AYDIN
• SEKİYAKA 2 HES (HYDRO ELECTRIC)
SEYDİKEMER İLÇESİ SÖĞÜTLÜDERE KÖYÜ SEKİYAKA MAH. MUĞLA
• DEMİRCİLER HES (HYDRO ELECTRIC)
İNCİRYAKA MAH. NO:37 DEMİRCİLER KÖYÜ KALE/DENİZLİ
• KAVAKÇALI HES (HYDRO ELECTRIC)
KAVAKÇALI MAHALLESİ NO:163 ULA/MUĞLA
• GELİNKAYA HES (HYDRO ELECTRIC)
GELİNKAYA KÖYÜ/ AZİZİYE ERZURUM
• SARAÇBENDİ HES (HYDRO ELECTRIC)
ÇEPNİ YOLU ÜZERİ ÇEPNİGÜCÜ YEM FAB. YANI GEMEREK- SİVAS
• ÇAMLICA III HES (HYDRO ELECTRIC)
ÇAVDARUŞAĞI KÖYÜ YAHYALI KAYSERİ
• DORUK HES (HYDRO ELECTRIC)
KIZILTAŞ KÖYÜ YAVUZKEMAL HACIKÖY MAH. NO 41 DERELİ/GİRESUN
• YAĞMUR HES (HYDRO ELECTRIC)
KAHRAMANLAR KÖYÜ DURMUŞLU MEVKİİ NO:38 SÜRMENE/TRABZON
• ÇALIKOBASI HES (HYDRO ELECTRIC)
BULANCAK İLÇESİ TANDIR KÖYÜ GİRESUN
• DOĞANÇAY HES (HYDRO ELECTRIC)
DOĞANÇAY KÖYÜ ÖRENCİK MAHALLESİ KÖY SOKAĞI NO:106 A-SANTRAL GEYVE SAKARYA

Hydroelectric Power Plant

• YEŞİLVADİ GES (SOLAR POWER PLANT)
YENİKÖY MAH. ACIPAYAM DENİZLİ
• YAYSUN GES (SOLAR POWER PLANT)
ZENGEN MAH. EREĞLİ
• SOLENTEGRE GES (SOLAR POWER PLANT)
ELAZIĞ MERKEZ İLÇESİ ŞAHİNKAYA KÖYÜ HOLOŞNUT MAVKİ 110 ADA 21, 29, 487, 28, 31 NO LU PARSELLER
• AMASYA GES (SOLAR POWER PLANT)
KUTU KÖYÜ BOYALI MEVKİİ MERKEZ AMASYA
• TOKAT GES (SOLAR POWER PLANT)
KUŞUOTURAĞIKÖYÜ TURHAL TOKAT

Solar Power Plant

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Figure 2-ISO 9001:2015 Annex of Quality Management System Certificate

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WE HEREBY CERTIFY THAT THE ENVIRONMENTAL MANAGEMENT SYSTEM OPERATED BY
SI CERTIFICA CHE IL SISTEMA DI GESTIONE AMBIENTALE DI

AKFEN YENİLENEBİLİR ENERJİ A.Ş.

HEAD OFFICE / *SEDE LEGALE*
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For Operative Units See Annex

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ISO 14001:2015

Environmental Management System / *Sistema di Gestione Ambientale*

FOR THE FOLLOWING ACTIVITIES / *PER LE SEGUENTI ATTIVITÀ*

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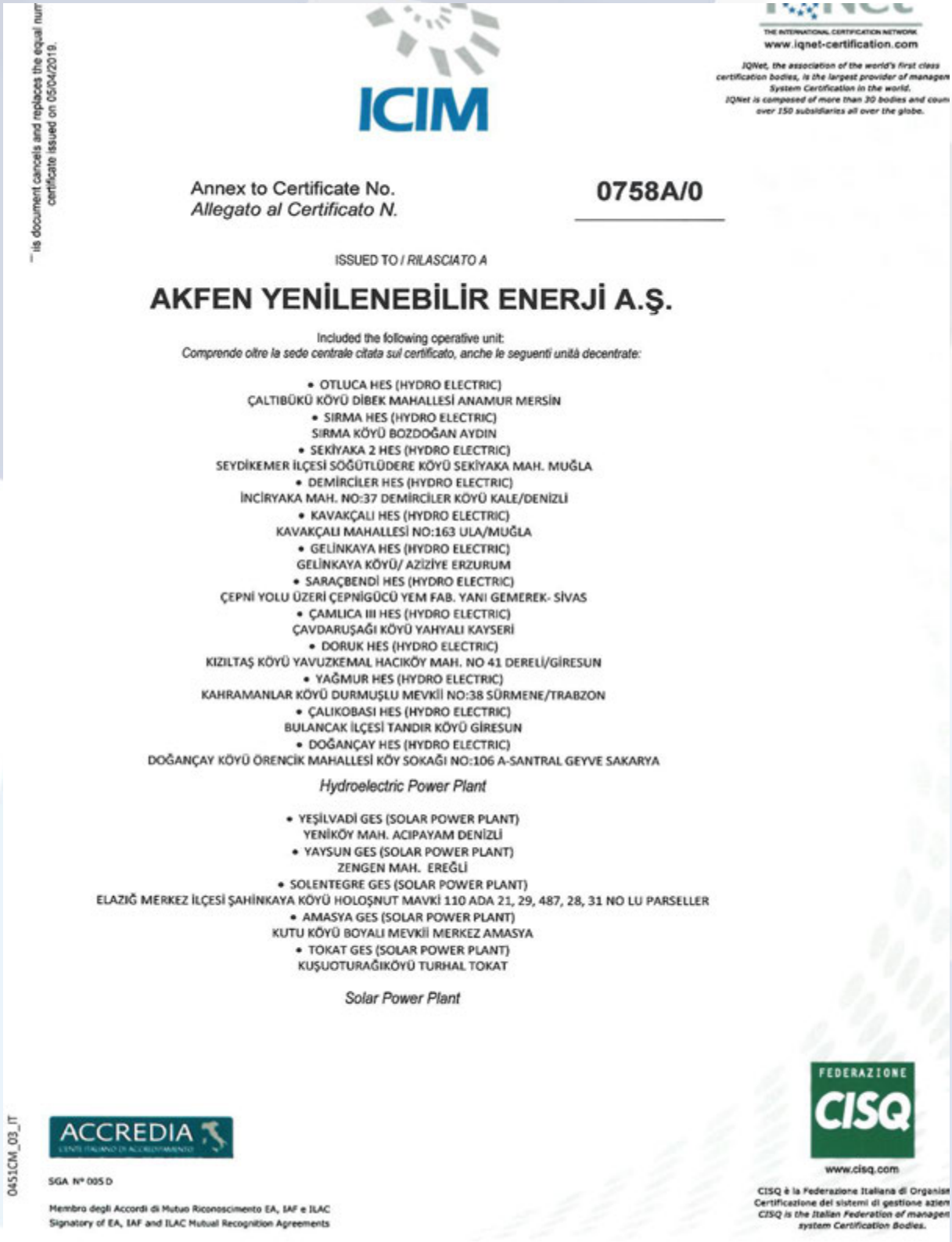
Figure 3- ISO 14001: 2015 Environmental Management System Certificate



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DOĞANÇAY KÖYÜ ÖRENCİK MAHALLESİ KÖY SOKAĞI NO:106 A-SANTRAL GEYVE SAKARYA

Hydroelectric Power Plant

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Figure 4- ISO 14001: 2015 Annex of Environmental Management System Certificate

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Certificate No. / *Certificato N.* **0284L/0**

WE HEREBY CERTIFY THAT THE OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM OPERATED BY
SI CERTIFICA CHE IL SISTEMA DI GESTIONE DELLA SALUTE E SICUREZZA NEI LUOGHI DI LAVORO DI

AKFEN YENİLENEBİLİR ENERJİ A.Ş.

HEAD OFFICE / *SEDE LEGALE*
İLKBAHAR MAHALLESİ GALİP ERDEM CADDESİ NO:3 ORAN ÇANKAYA ANKARA TURKEY

For Operative Units See Annex

IS IN COMPLIANCE WITH THE STANDARD / *È CONFORME ALLA NORMA*

BS OHSAS 18001:2007
Occupational Health and Safety Management System
Sistema di Gestione della Salute e Sicurezza nei Luoghi di Lavoro

FOR THE FOLLOWING ACTIVITIES / *PER LE SEGUENTI ATTIVITÀ*

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Figure 5- BS OHSAS 18001: 2007 Occupational Health and Safety Management System Certificate

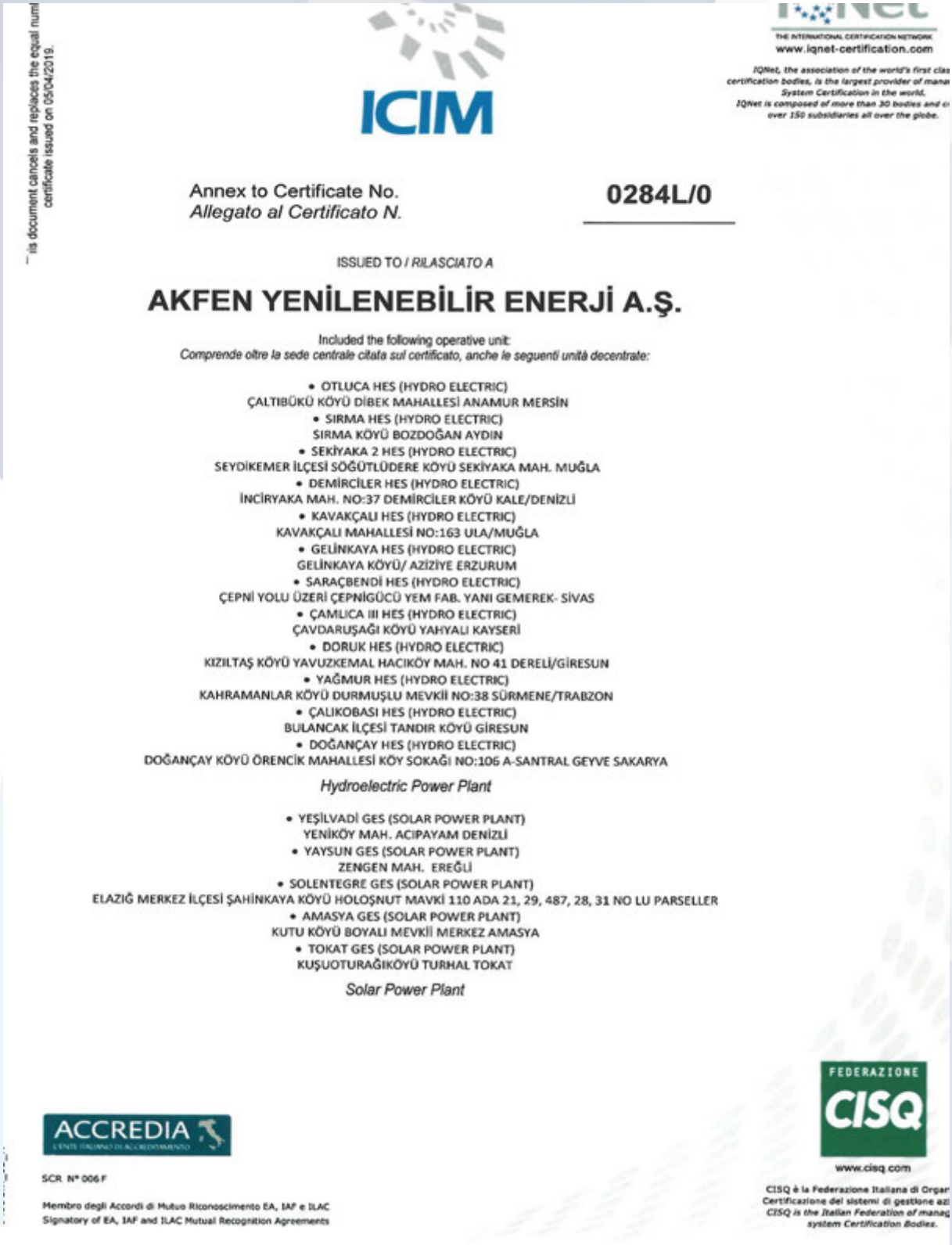

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Figure 6- BS OHSAS 18001: 2007 Annex of Occupational Health and Safety Management System Certificate

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Certificate No. / *Certificato N.* **8333/0**

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AKFEN YENİLENEBİLİR ENERJİ A.Ş.

HEAD OFFICE / *SEDE LEGALE*

İlkbahar Mahallesi Galip Erdem Caddesi No:3 Oran Çankaya Ankara
Turkey

For Operative Units See Annex

IS IN COMPLIANCE WITH THE STANDARD / *È CONFORME ALLA NORMA*

UNI CEI EN ISO 50001:2011

Energy Management System / *Sistema di Gestione per L'Energia*

FOR THE FOLLOWING ACTIVITIES / *PER LE SEGUENTI ATTIVITÀ*

Güneş Enerjisinden ve Hidroelektrikten Enerji Üretimi ve Üretilen Enerjinin Satışı.
Solar Energy and Hydroelectric Power Generation and Sales of Energies Produced.

Refer to Energy Management System for any exclusions.
Riferirsi al Manuale di Gestione dell'Energia per eventuali esclusioni.

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Figure 7- UNI CEI EN ISO 50001:2011 Energy Management System Certificate

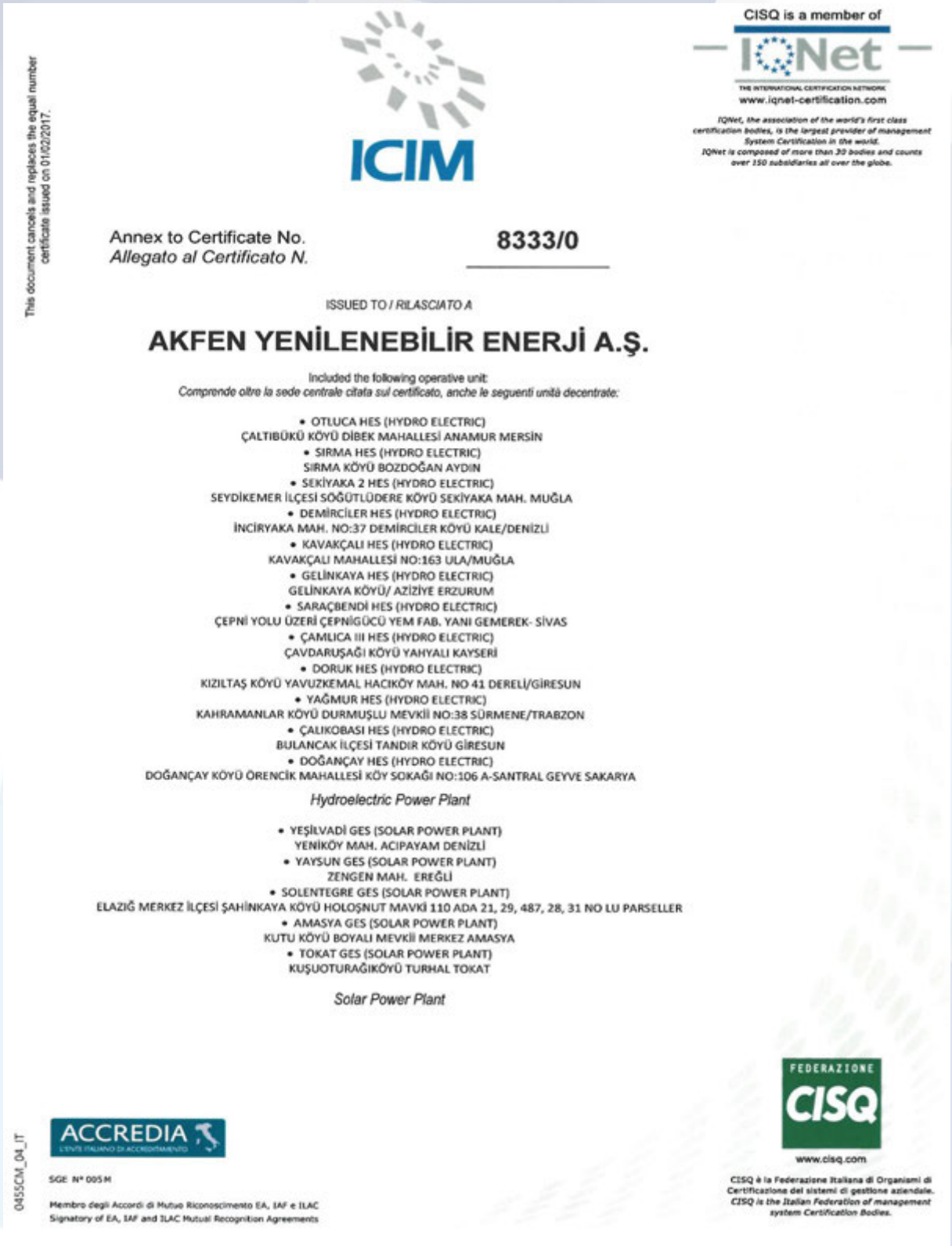

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Figure 8- UNI CEI EN ISO 50001:2011 Annex of Energy Management System Certificate

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.

The HR service received through Akfen Holding has been conducted by Akfen Renewable Energy A.Ş. since HR department was established in 2019. The organization chart of Akfen Renewable Energy Inc. is given in Figure 9.

Akfen head office has 8 specialist for environmental, social, OHS and Human Resources applications.

Figure 9- Organization Chart for Environmental-Social Management System

Experienced experts have been working for implementations and audits of operations and construction sites for environmental and social and OHS aspects.

In all projects, the OHS law numbered 6331 and Environmental Law numbered 2872 have been fulfilled and the OHS experts, workplace doctors and medical staffs have been appointed in the legal period. In addition to this, consultancy service has been taken from experienced and competent environment, occupational safety, social advisors and academicians.

AKFEN Renewable A.Ş. operates and maintenance the all operations of HEPP projects with it's own personnel.

Operations of SPP and WPP projects are operated with AKFEN's subcontractors. MT and Yaysun SPP Projects are operated by Maxima Energy, Turhal SPP Project is operated by Konar Energy and the other all SPP Projects are operated by ELİN Co.Inc. on behalf of AKFEN.

The operations of WPP' s are carried out by SY Energy Investment Co. INC. and maintenance is carried out by Siemens Gamesa. Akfen appoints managers to all operations. All of the subcontractors are supervised by either AKFEN or necessary consultants (Environment, OHS, Biology etc.). The management of operation and maintenance activities is given in Figure 10.

Figure 10- Management Of Operation And Maintenance

The total number of environment and OHS specialists working for the Akfen head office, operations, constructions is 32 and the number of social experts is 4 in 2019. Total number of workplace doctors appointed by making contract with Common Health and Safety Units in plants and constructions is 34 and medical staffs is 34. During the reporting period, a company also provided consultancy services on environment, social and OHS in the Akfen Head Office, operations and construction sites. The total number of consultants is 33. Biodiversity studies were conducted and reports were prepared by

academicians and experts. 24 academicians and experts took part in biodiversity studies. A total of 162 people worked on environmental-social-OSH and biodiversity subjects in 2019.

Support has been received from the following companies and academicians for environmental, social, OHS, quality and biological studies for constructions and operations in 2019.

COMPANIES	SERVICE
-IMOLINE -ATLASCERT -ARMA -SELİN -ENVA	-HS -Quality Management Systems -Environment, HS and Social Compliance -Environment, HS and Biodiversity -Environment and Biodiversity

EXPERT BIOLOGISTS	SERVICE
-Şakir Önder Özkurt	-Fauna and Bat Monitoring
-Haşim Altınözlü	-Flora mon. and seed transport-planting
-Kerem Ali Boyla	-Biodiversity, Ecosystem
-Okan Ürker	-Flora monitoring
-Ö. Gencay Çelemli	Fauna (Beekeeping act. project execution)
-Cenk Polat	-Fauna and Bird Monitoring
-Caner Gönel	-Fauna and Bird Monitoring
-Merve Yıldızbaş	-Fauna and Bird Monitoring
-İlker Özek	-Fauna and Bird Monitoring
-S. Kenan Çüngür	-Fauna and Bird Monitoring
-Ayşegül İliker	-Fauna and Bird Monitoring

The distribution of the number of personnel taking part according to project type, stage and profession during reporting period is given in Table 5.

Project	Stage	Areas Of Expertise							TOTAL
		HSE Expert	Social Expert	Workplace Doctor	Medical Staff	Environment-Social-OHS Consultant	Biologist Academisian and Expert	HR Specialist	
HEAD OFFICE	Operation	3	4	1	1	10	-	1	20
WPP	Operation	2	-	4	4	2	9	-	21
WPP	Construction	2	-	4	4	2	9	-	21
SPP	Operation	9	-	10	10	7	2	-	38
SPP	Construction	2	-	1	1	6	2	-	12
HEPP	Operation	13	-	13	13	2	2	-	43
HEPP	Construction	1	-	1	1	4	-	-	7
TOTAL		**32**	**4**	**34**	**34**	**33**	**24**	**1**	**162**

Table 5- Personnel Distribution of Environment, Social, OHS, Biological Diversity Works

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

All personnel working in Akfen have been given general awareness trainings in environmental social, health and safety issues approximately 34363 minutes for 830 worker in 2019. Apart from this, special trainings have been given in the fields of the risky 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, trainings about introducing and implementing of ISO 9001 Quality, ISO 14001 Environment, ISO 50001 Energy and OHSAS Occupational Health and Safety Management Systems were organized also. The environmental, social, health and safety trainings are given to the staffs in the Akfen Center, operations and the construction sites in the context of the Table-6 and training records are also given in Annex 1.

AKFEN RENEWABLE ENERGY TRAININGS IN 2019				
No	Project Name	Training Subjects Environmental , HS, Ecosystem	Duration of Training (Minutes)	Number of Staff Participating In Training (Average)
1.	OTLUCA HEPP	✓	1625	21
2.	SIRMA HEPP	✓	1020	8
3.	SEKİYAKA HEPP	✓	1500	9
4.	DEMİRCİLER HEPP	✓	1260	10
5.	KAVAKÇALI HEPP	✓	1380	12
6.	GELİNKAYA HEPP	✓	1260	7
7.	SARAÇBENDİ HEPP	✓	1080	16
8.	ÇAMLICA III HEPP	✓	1320	14
9.	DORUK HEPP	✓	120	8
10.	YAĞMUR HEPP	✓	1980	12
11.	DOĞANÇAY HEPP	✓	1080	21
12.	ÇALIKOBASI HEPP	✓	1740	15
13.	ÇİÇEKLİ HEPP -CONSTRUCTION	✓	420	16
14.	ÇİÇEKLİ HEPP -OPERATION	✓	120	8
15.	SOLENTEGRE SPP	✓	120`	2
16.	AKFEN RENEWABLE SPP	✓	120	3
17.	DENİZLİ SPP PROJECTS	✓	120	3
18.	AMASYA SPP PROJECTS	✓	840	6
19.	TOKAT SPP PROJECTS	✓	720	5
20.	ME-SE SPP	✓	1200	6
21.	MT SPP	✓	0	0
22.	YAYSUN SPP	✓	1200	5
23.	OMİCRON ERCİŞ SPP	✓	120	3
24.	OMİCRON ENGİL 208 SPP	✓	120	3
25.	PSI ENGIL 207 SPP- CONSTRUCTION	✓	3903	65
26.	PSI ENGIL 207 SPP- OPERATION	✓	120	3
27.	HASANOBA WPP- CONSTRUCTION	✓	5280	100
28.	KOCALAR WPP- CONSTRUCTION	✓	360	150
29.	ÜÇPINAR WPP- CONSTRUCTION	✓	1900	150
30.	DENİZLİ WPP- CONSTRUCTION	✓	1195	100
31.	WPP PROJECTS OPERATION	✓	1140	9
32.	AKFEN HEAD OFFICE	✓	120	40

Table 6- Trainings in 2019

The photographs of trainings were given at operations and construction sites in 2019 (See Photograph 26-33).

Amasya Boyalı SPP

Tokat Kuşoturağı SPP

Photograph 26- Training Samples in 2019

Omıcron Erciş SPP, Omıcron Engil 208 SPP

MT-Yaysun SPP

Photograph 27- Training Samples in 2019

Saraçbendi HEPP

Hasanoba WPP Construction

Photograph 28- Training Samples in 2019

Üçpınar SPP

Kocalar SPP Construction

Photograph 29- 2019 Training Samples in 2019

Otluca HEPP

Çalıkobası HEPP

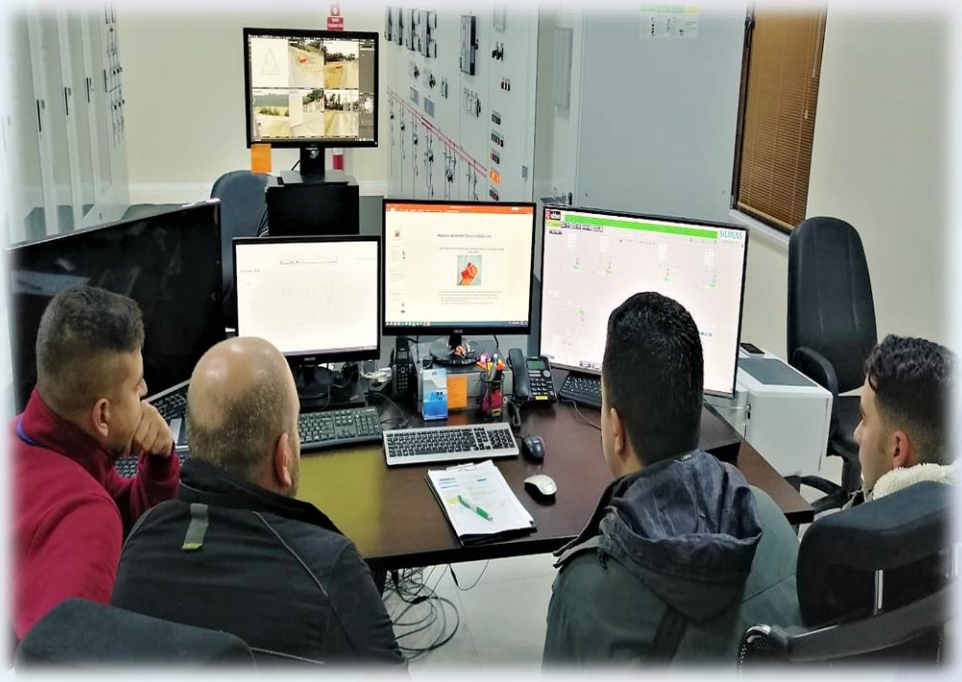
Photograph 30- Training Samples in 2019

Van SPP İşletmeleri

Kocalar SPP

Photograph 31- Training Samples in 2019

Üçpınar SPP



Hasanoba SPP

Photograph 32- Training Samples in 2019

Sekiyaka HEPP

PSI Engil 207 SPP Construction

Photograph 33- Training Samples in 2019

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 detaiedl information

The accidents given in Table 7 are recorded in 2019. The accident reports 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	HASANOBA WPP	18.07.2019	Construction Site, soft tissue injury	1	-	NO	NO
2	Denizli WPP	19.06.2019	Construction Site, traffic accident	0	-	YES	NO
3	HASANOBA WPP	27.06.2019	Construction site, steel sling hit worker's face	1	-	NO	NO
4	Denizli WPP	19.06.2019	Construction site, Falling of the electrical panel during the operation of the mobile crane	2	-	YES	NO
5	HASANOBA WPP	25.03.2019	Construction site, iron fell on worker's hand	1	-	NO	NO
6	ÜÇPINAR WPP	04.03.2019	Construction site, equipment fell on the worker's feet	1	-	NO	NO
7	ÜÇPINAR WPP	24.01.2019	Outside the operation, traffic accident	1	1	YES	NO

Table 7- Accident Data in 2019

A traffic accident was occurred in 24.01.2019 as a result of a lane violation by a driver named Fahri Şen, a local resident who were driving a truck in the opposite lane with Soner Soylu's vehicle. Soner Soylu was a Üçpınar WPP construction site personnel moving from Üçpınar-Kocalar WPP site to Çanakkale City Center. Fahri Şen, his wife and Soner Soylu were injured in the accident and taken to hospital. Fahri Şen's wife lost her life in hospital. Soner Soylu and Fahri Şen were discharged after their treatment was completed.

It is included in the "Accident Detection Report prepared by Lapseki District Gendarmerie Station that Soner Soylu did not have any fault in the accident, it was caused by Fahri Şen's passing to the opposite lane (See Annex 2).

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.

- The Company participated and met with sector representatives in the 10th Energy Efficiency Forum and Fair on 11-12 April 2019.
- Akfen Renewable Energy was awarded the "Best Export Finance Loan" and "Best of Natural Resources Finance Credit" prizes in 2019 Bonds & Loans Turkey Awards (See Photograph 34).
- ESAP meeting was held with EBRD for WPP projects (See Photograph 35)
- Akfen was participated in EBRD Orientation Training Seminar (See Photograph 36).
- Akfen's 4 wind power plants in Çanakkale and Denizli, with a total capacity of 275 MW, received the Best WPP Project Finance Award in Central and Eastern Europe. The awards were presented to Akfen Renewable Energy representatives at the EMEA Finance Project Finance Awards ceremony held on 12 June 2019 in London, the capital of England (See Photograph 37)
- The International Energy Agency IEA Renewable Energy Report 2019 (Renewables 2019) the launch of Turkey, was held in Istanbul on 12.04.2019 (See Figure 11). AKFEN is one of the promoters of the launch. The launch was light the way how the development of renewable energy sources, especially solar energy, will occur in the next 5 years, how the development of renewable energy sources, especially solar energy, will occur in the next 5 years, report on analysis of regional dynamics, at the same time Turkey's renewable energy plans for the period 2019-2024.
- Images from the social media sharing about fairs and power plants are given in Photograph 38-39.

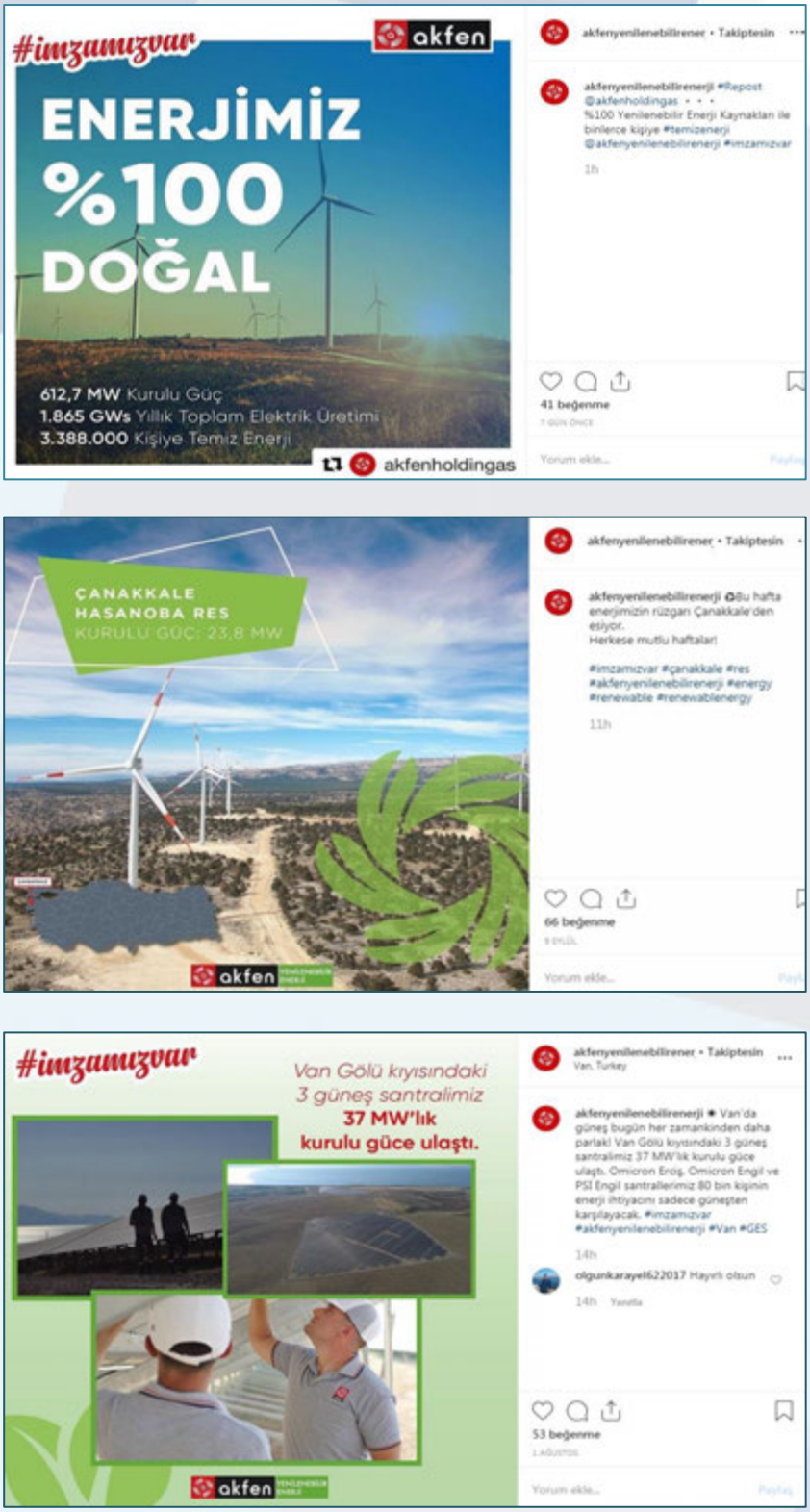
Photograph 34- Turkey Bonds&Loans Prizes

Photograph 35- ESAP meeting was held with EBRD for WPP projects

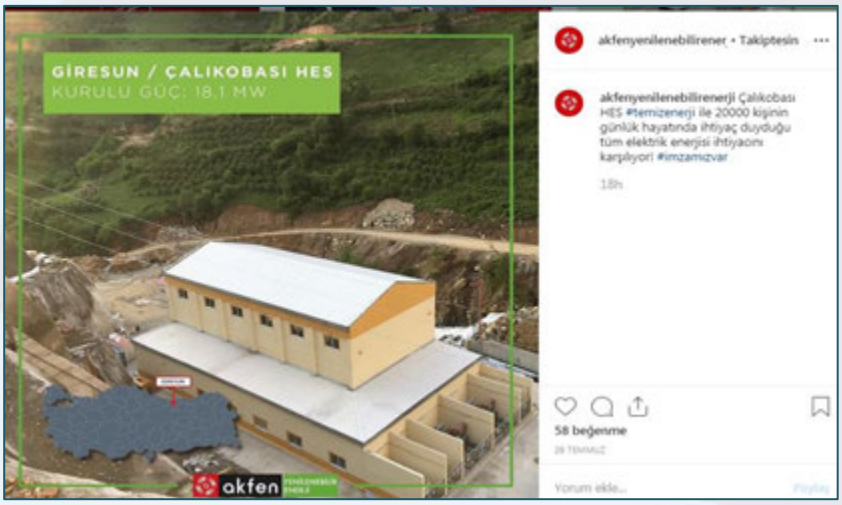
Photograph 36- EBRD Orientation Training

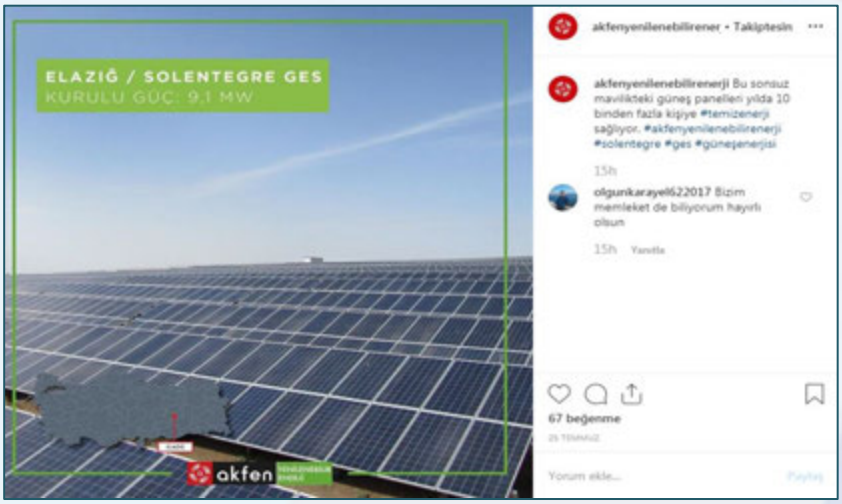
Figure 11- The International Energy Agency IEA Renewable Energy Report 2019 (Renewables 2019) Turkey launches social media information images

Photograph 37- EMEA Finance Project Awards



Photograph 38- Images from Social Media Shares





Photograph 39- Images from Social Media Shares

Non technical summaries containing information about all projects under construction and pre-construction phase are published at the Company' s website (www.akfenren.com.tr).

Construction of Çiçekli HEPP, PSI Engıl 207 SPP, Kocalar WPP, Denizli WPP, Üçpınar WPP, Kocalar WPP and Hasanoba WPP have been completed during this reporting year. Public information meetings of WPP constructions were completed in 2018 and information regarding the meeting was provided in the 2018 annual monitoring report. Public information meeting was held in 2019 only for the construction of PSI Engil 207 SPP (See Photograph 41). Project brochures were prepared for the meeting and distributed to the public and necessary information was provided (See Annex-7).

Necessary information was given to local people and sociological studies were carried out at the same time during pre-construction, construction and operation periods. (See Photograph 40-41-42).

Photograph 40-Stakeholder Interviews (WPP Projects)

Public Information Meetings in PSI Engil 207 Construction Period

Image of Public Information Meetings During Construction of ME-SE SPP

Photograph 41- Public Information Meetings

Photograph 42- Public Information Meetings in WPP Projects

A photograph exhibition consisting of photographs taken by expert biologists working in the scope of Çanakkale WPP Projects. The exhibition named "The Birds of Çanakkale" started to be exhibited at Çanakkale City Museum between 5-10 December 2019 with the support of Çanakkale Municipality. (See Photograph 43).

Promotion Brochure of the Exhibition Named "The Birds of Çanakkale"

Photograph 43- Photograph Exhibition- "The Birds of Çanakkale"

Our main goal is to establish good relations with our stakeholders at all levels of the projects and carry out our activities in good faith by exchange of mutual information. Our social responsibility activities in 2019 at regions where our projects are located are given in Table 8.

Project	Social Responsibility Activities
SIRMA HEPP	▪ Financial support was provided to Bozdogan Anatolian School.
DEMİRCİLER HEPP	▪ Financial support was provided to Kale Camlica Primary School.
OTLUCA HEPP	▪ Support was provided for the renovation of the house of a person whose house was burned in Boğuntu Village. ▪ Support was provided for the construction of the plateau road of Çaltıbüyük village. ▪ Restrooms of Kıbrıs Primary School was renewed.
SARAÇBENDİ HEPP	▪ Financial support was provided to the Ataturk High School students who will participate in a project competition. ▪ Financial support was provided to Gemerek District National Education Directorate.
ÇAMLICA III DAM and HEPP	▪ Renovation support was provided for Balcicakiri Mosque
YAĞMUR HEPP	▪ Funeral expenses were covered of a local person who was in a bad shape. ▪ Uniforms were donated for volleyball tournament of Fidanlı District Governorate. ▪ Uniforms were donated for curling team of 14. Regional Directorate of TEIAS ▪ Renovation support was given to the Köprübaşı Multi-Program High School Building
KAVAKÇALI HEPP	▪ 22 football uniforms were donated for Kavakcali Village Football Team. ▪ Financial support has been given for social works for Balcicakiri Village . ▪ Renovation support was provided for Karabortlen Police Station Building.
GELİNKAYA HEPP	▪ Financial support was provided for Gelinkaya Village to be used for public benefit.
SEKİYAKA II HEPP	▪ Financial support was given to Seydikemer Municipality to be used for Söğütlüdere Neighborhood.
DORUK HEPP	▪ Financial support and construction machine were provided for construction of a stone wall on the road to the Hacıköy neighborhood of Kızıltaş Village and ploughing for all villages. ▪ Financial support and construction machine were provided for the improvement and cleaning of Kızıltaş Village neighborhood roads. ▪ Furniture was purchased for the village headman's room to be used in Kiziltas Village Legal Entity. ▪ Financial support was provided for reimbursement of court costs about the ownership case of glebe. ▪ Financial support was provided for Karınca Village and Sağrak Lake Festival. ▪ 600 meters of water pipes were provided to Tepeköy Mukhtar Office to be used in Tepekoy village water line works.
DOĞANÇAY HEPP	▪ Wire fence was donated for Kızılkaya Primary School. ▪ Support was provided for the gym construction of Karaçam Primary School. ▪ Advertisement expenses were covered for Magazine of Boğazköy Mukhtar. ▪ Building renovation materials were provided for Geyve and Doğançay District Gendarmerie Commands.
ÇALIKOBASI HEPP	▪ Material was supplied to the Kovanlık Gendarmerie Station.
ÇİÇEKLİ HEPP	▪ Financial support was given to the social facilities of the village legal entity.
DENİZLİ SPP PROJECTS - Unlicenced	▪ Science sets were provided for use in Denizli Science and Art Center workshops.
SOLENTEGRE SPP – Unlicenced	▪ Financial support was given to Şahinkaya village legal entity.

Project	Social Responsibility Activities
AMASYA SPP PROJECTS - Unlicenced	▪ BOYALI SPP; Mukhtar's building and village chamber was built; an information meeting was held at the opening of the mukhtar's building ▪ KUŞOTURAĞI GES; Financial support was provided for Quran Course for women at Kuşoturagı Village.
TOKAT SPP PROJECTS - Unlicenced	▪ Financial support was provided to meet the social needs of Kuşoturagı Village.
OMICRON ENGİL 208 SPP	▪ 300 saplings were purchased from Edremit Municipality. ▪ Support was provided to the Edremit Space Observatory. ▪ Cultural union dinner was given to local people with Edremit Municipality. ▪ Provision support was provided to those in need of Kiyicak neighborhood. ▪ Construction materials were provided in the construction of a gas station.
OMICRON ERCİŞ SPP	▪ According to the requests of the people of Kiyicak Village, construction equipment was provided at various times. ▪ Office equipment was provided to the Edremit District Gendarmerie Command. ▪ Restoration material was provided for the Kiyicak Primary School.
ME-SE SPP	▪ Karatepe Village playground and social activity area were built.
MT SPP	▪ 3 broken culverts on the road leading to SPP Sites, goat farms and orchards were renewed and road arrangement was made.
YAYSUN SPP	▪ Greenery wastes, sachets and glass bottles remaining from the farmers in the lands around the enterprises were collected and cleaned.
PSI ENGİL 207 SPP	▪ Bakimli neighborhood village school has been renovated and sports facilities have been made. ▪ Edremit Space observation house was supported. ▪ Food support was provided to local people. ▪ Social facilities were constructed for Edremit gendarmerie housing. ▪ 2 bovine animals were donated to the village legal entity for the insemination of the local animals. ▪ Material support was given to the construction of the Gendarmerie Social Facilities in Edremit District. ▪ Provision was provided to people in need of Bakimli neighborhood. ▪ Smart board was taken to Bakimli primary school. ▪ The funeral vehicle was purchased and donated to the Bakimli Village. ▪ Tables and chairs were donated to condolence house of Bakimli Village.
HASANOBA WPP	▪ Material and financial support was given to the legal entity of Erenköy Village for infrastructure and deficiencies. ▪ Chairs and tables were donated to Erenköy Village. ▪ The local football team was supported.
ÜÇPINAR and KOCALAR WPP	▪ Water Tanks were purchased for Üçpınar and Harmancık Villages ▪ Financial support was provided for Social facilities of Üçpınar Municipality and cultural festival of Üçpınar Municipality. ▪ Üçpınar village cemetery wire fence arrangement and 20 km asphalt road revision works were done.
DENİZLİ WPP	▪ The public facility in Ataköy Neighborhood was renovated and rehabilitated. ▪ Financial support was provided for Primary School of Atakoy District and Karacasu Municipality cultural festival. ▪ Application of Dikmen Thyme Honey Geographical Indication Recording Project. ▪ Akfen sponsored for the Dikmen Oregano Honey Geographical Indication Registration Project for Dikmen and Yeniköy Neighborhoods within the scope of Denizli WPP Social Responsibility Program.

Table 8- Social Responsibility Activities in 2019

Local newspaper clippings about the social responsibility works made by the Company are given in Photograph 44-45-46'de , the studies that show social studies are given in Photograph 47-48-49.

DOĞU GAZETESİ

"VAN'IN EKONOMİ DOSTU AKFEN"
06.08.2019

Van'da 30 mw lık bir GES projesini hayata geçiren Akfen Yenilenebilir Enerji, sosyal sorumluluk projesi kapsamında, geçen yıl olduğu gibi bu yılda Edremit ilçesi Bakımlı Mahallesinde bulunan bir okulda onarım çalışması ve spor tesisleri oluşturdu.

Van'ın Edremit İlçesi Kıyıcak Mahallesi ve Bakımlı Mahallesi üst kotlarında yaklaşık 80. 000 insanın elektrik ihtiyacını karşılayabilecek 30 megavatlık güneş enerji sistemleri kuran Akfen Yenilenebilir Enerji, sosyal sorumluluk projesi kapsamında Bakımlı İlkokulunun tüm tadilat işlemlerini gerçekleştirdi. Edremit ilçesi Bakımlı İlkokulunun zamanla eskimesi sonucu çocuklara olan hassas duyarlılığını göz önünde bulunduran Akfen, okulun tüm ısınma, tesisat, kapı, pencere, boya tadilat işlemlerini gerçekleştirildi. Okul bahçesinde çocukların hem hafta içi hem hafta sonu eğlenebilecekleri spor kompleksinde ise çoğu okulda olmayan çim futbol sahası, basketbol sahası ve peyzaj işlemleri gerçekleştirdi.

AKFEN'İN HEDEFİ 1000 MW'LIK ENERJİ

Yapılan bakım, onarım ve diğer çalışmalarla ilgili okulda gerçekleştirilen açılışta konuşan Akfen Yenilenebilir Enerji Çevre Yönetimi ve Halkla İlişkiler Müdür Yardımcısı Burak Solmaz, Tüm Türkiye de proje ürettiklerini söyledi. Solmaz şunları söyledi: "Bugün burada, güneşin batmadığı şehir anlamına gelen Tuşba'da böyle bir organizasyonda sizlerle birlikte olmanın verdiği mutlulukla selamlarımı saygılarımı iletiyorum. 2020'ye kadar yerli ve yenilenebilir kaynaklardan 1000 MW'lık enerji üretim santrali portföyüne ulaşmayı hedefleyen Akfen Yenilenebilir Enerji yatırımlarına ara vermeden devam etmektedir."

İNSAN DOSTU ENERJİ

Solmaz, "Edremit İlçesi'nde 3 adet GES projesini sizlerin de katkıları ve misafirperverliği ile 1,5 yılda tamamladık. 3 güneş enerji santraliyle 80 bin kişinin yıllık enerji ihtiyacını karşılayacak olan bu santraller bu yöredeki dışa bağımlı enerji ihtiyacını engelleyecektir. Herhangi bir zararı olmayan bu santraller doğaya ve insana dost olan enerji yatırımlarıdır. Bu bölgede, bu güzel şehir olan Van'da elimizden geldiği kadarı ile kamu yararına yönelik sosyal çalışmalarda gerçekleştirdik. Edremit ilçesinde, Kıyıcak ve Bakımlı Köylerinde paydaşlarımızla birlikte birçok sosyal projeye imza attık. Tüm bu sosyal yardımlarımızın toplam tutarı 1 milyon 250 bin liradır. Bu kapsamda ana yüklenicimiz Elin İnşaat firmasına da teşekkürlerimi sunuyorum. Onlarda bu kapsamda elinden geleni yaptı." Dedi.

Photograph 44- Media News on Social Support for Van SPP

Yeşilırmak

"Akfen'den Köye Doğan Güneş"
30.06.2019

Amasya İli Kutu Köyü mevkiinde yaklaşık 60.000 insanın elektrik ihtiyacını karşılayabilecek 11,2 megavatlık güneş enerji sistemleri kuran Akfen Yenilenebilir Enerji, sosyal sorumluluk projeleri kapsamında Kutu Köyüne toplumun çok yönlü aktivitelerde kullanması amacıyla sosyal tesis kazandırdı.

Kutu köyünde insanların toplantı yapabileceği, muhtarlık binası olarak kullanabileceği, düğün cenaze bayram gibi toplumsal kültürel anlarda insanların ortak kullanımına açık olacak bu sosyal tesis ile köyün ihtiyacı olan bir eksiklik giderilmiş oldu.

Yemek organizasyonu sonrasında açılış programında konuşma yapan Akfen Yenilenebilir Enerji Çevre Yönetimi ve Halkla İlişkiler Müdür Yardımcısı Burak Solmaz, gazetemize değerlendirmelerde bulunarak Akfen Yenilenebilir Enerji hakkında bilgiler verdi.

"Türkiye'de Çanakkale'den Van'a, Giresun'dan Mersin'e kadar birçok bölgede HES, RES ve GES yatırımları olmak üzere yenilenebilir enerji konusunda birçok bölgede hem yenilenebilir enerji santrallerinin inşaatlarını sürdürmekte hem de işletmede olan santrallerimizin üretim çalışmalarını yönetmekteyiz. Tamamen yenilenebilir enerji konusunda faaliyet gösteren Akfen Yenilenebilir Enerji, 1000 mw toplam kurulu güç hedefine ulaşma doğrultusunda emin adımlarla ilerleyecek ve ülke ekonomisine katkı sağlamayı sürdürecektir.

Bugün burada Kutu Köyü vatandaşları ile güzel bir bilgilendirme toplantısı ve açılış organizasyonu gerçekleştirdik. Sağolsunlar bizlere herzaman ev sahipliği yaptılar Bizler de onlara komşu olarak elimizden geldiği kadarı ile kamu ortak kullanımına destek olmaya çalışıyoruz. . Buğra BOLAT muhtarımızın gayretleri ve çabaları ile sosyal projeler üreterek paydaşlarımızın hayatlarında yer almaya çalışıyoruz. İnsanı yaşat ki toplum yaşasın mantığı ile karınca kararınca faydalı işler yürütmek için tüm çabamızla paydaşlarımız ile birlikte toplum yararına işler yapmaya devam edeceğiz…..dedi….

Photograph 45- Media News on Social Support for Amasya Boyali SPP

SarayMedya

"Akfen'den Karatepe'ye destek"

30.06.2019

Sarayönü'ne bağlı Karatepe mahallesinde yaklaşık 60 bin insanın elektrik ihtiyacını karşılayabilecek 12,10 megavatlık güneş enerji sistemleri kuran Akfen Yenilenebilir Enerji, sosyal sorumluluk projeleri kapsamında Karatepe Mahallesinde sosyal tesis düzenlemelerinde bulundu.

Eski muhtarlık binası etrafında yapılan çevre düzenlemesi ve çocuk oyun alanı ile insanların ortak kullanımına açık olan bu sosyal tesis ile bir eksiklik giderilmiş oldu.

Yapılan bu düzenlemelerle ilgili gerçekleştirilen kahvaltı organizasyonunda mahalle sakinleri bir araya geldi. Programda konuşan Akfen Yenilenebilir Enerji Çevre Yönetimi ve Halkla İlişkiler Müdür Yardımcısı Burak Solmaz, Akfen Yenilenebilir Enerji hakkında bilgiler verdi.

Solmaz, yaptığı açıklamada, "Türkiye'de Çanakkale'den Van'a, Giresun'dan Mersin'e kadar birçok bölgede HES, RES ve GES yatırımları olmak üzere yenilenebilir enerji konusunda birçok bölgede hem yenilenebilir enerji santrallerinin inşaatlarını sürdürmekte hem de işletmede olan santrallerimizin üretim çalışmalarını yönetmekteyiz. Tamamen yenilenebilir enerji konusunda faaliyet gösteren Akfen Yenilenebilir Enerji, 1000 mw toplam kurulu güç hedefine ulaşma doğrultusunda emin adımlarla ilerleyecek ve ülke ekonomisine katkı sağlamayı sürdürecektir." dedi

Çeşitli konularda mahalle halkına destek olduklarını kaydeden Solmaz, "Komşu olarak elimizden geldiği kadarı ile kamu ortak kullanımına destek olmaya çalışıyoruz. Daha önce de TİKAV ile birlikte kadınlara yönelik sağlık konusunda eğitim etkinliği gerçekleştirmiştik. İbademin Eken muhtarımızın gayretleri ve çabaları ile sosyal projeler üreterek paydaşlarımızın hayatlarında yer almaya çalışıyoruz. İnsanı yaşat ki toplum yaşasın mantığı ile karınca kararınca faydalı işler yürütmek için tüm çabamızla paydaşlarımız ile birlikte toplum yararına işler yapmaya devam edeceğiz." şeklinde konuştu.

Photograph 46- Media News on Social Support for Me-Se SPP

Karatepe Village Playground and Social Activities Area for Social Activities - ME-SE SPP

Water reservoir in the scope of Üçpınar WPP

Edremit Space Observatory in the scope of Van SPP Projects

Photograph 47- Social Support Studies

Inaugurate of mukhtar's office in Amasya Kutu Village
Photograph 48- Social welfares in the scope of Van SPP Projects

Photograph 49- Renovation works in school and trade center in the scope of Denizli WPP

TİKAV STUDIES;

For the villages in our project locations, social assistance is provided for the benefit of the village legal entity. Within the scope of social responsibility projects planned in the project areas, the "Hygine is Health Project" was launched for 2019 by cooperation with stakeholders and TİKAV which exists within the struture of the Akfen. Every year from 2017 to 2019 a social responsibility project has been developed and implemented by TİKAV. These projects are summarized in Figure 12.

2017

TIKAV organized a social responsibility project called "Education at Home Project" in 2017. In partnership with TUGIAD Ankara Branch Office, TIKAV also organized "Mom and Me Project" in 2017.

2018

"Health First Project" were organised by TİKAV and it's partners in 2018.

2019

"Hygiene Equals Health Project" will start in 2019. Within the project, seminars will be held at 26 various towns/ villages where active HEPP, SPP ansd WPP power plant facilities of Akfen Renewable Energy Inc. Co. are located.

Figure 12- Social Responsibility Projects of TİKAV Between 2017-2019

This project covers villages/neighborhoods in 23 locations with 26 different power plant operations. Within the scope of the project, it is aimed to raise awareness of the body and food hygiene issues necessary for the healthy lives of women living in rural areas and working with body strength.

In addition, it is also aimed to pave the way for women to socialize and to enable them to express themselves in a community created outside other than their familiar area. The aim of this project is to educate healthier individuals and to encourage the public to benefit more from the health services spread in our country. It is another aim that the operations support the relationship between local governments and the local community.

The first phase of the Project, which was started in January 2019, was in January-February-March-April-May; the second period was in September-October-November-December. The project was realized as a single day event at each of the planned locations in the determined months (See Photograph 50- 57).


AMASYA SPP


ÇALIKOBASI HEPP

Photograph 50- Images from "Hygine Equals Health Project

ÇAMLICA III HEPP

DORUK HEPP

Photograph 51- Images from "Hygine Equals Health Project

KAVAKÇALI HEPP

OTLUCA HEPP

Photograph 52- Images from "Hygine Equals Health Project

SARAÇBENDİ HEPP

SEKİYAKA HEPP

Photograph 53- Images from “Hygine Equals Health Project

YAĞMUR HEPP

ME-SE SPP

Photograph 54- Images from “Hygine Equals Health Project

MT SPP - YAYSUN SPP

PSI ENGiL SPP

Photograph 55- Images from “Hygine Equals Health Project

OMICRON ENGİL 208 SPP - OMICRON ERCİŞ SPP

SOLENTEGRE SPP

Photograph 56- Images from “Hygine Equals Health Project

TOKAT SPP

GELİNKAYA HEPP

Photograph 57- Images from “Hygine Equals Health 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).

The Human Resources service previously taken from Akfen Holding was transferred to the Akfen Renewable Energy Co. Inc. by establishing a Human Resources department within the scope Akfen Renewable Energy Co. Inc. in 2019.

The off-grid system was established to meet the energy requirement of the SPP facilities that construction phase was completed in 2019.

Within the framework of the ISO 9001 Quality Management System, OHSAS 18001 Occupational Health and Safety Management System, ISO 14001 Environmental Management System and ISO 50001 Energy Efficiency Management System studies, the policies committed by Akfen management, energy and water consumption in Akfen Head office, operations and construction sites are monitored and recorded.

Measures and actions have been planned in consideration of consumption trends for saving and efficient use within the scope of Quality Management Systems. 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.

Consultants were worked on for construction and operational period audits on Environmental-Social-OHS issues in SPP and WPP projects. Sample images of the audits are given in Photograph 59-60. In addition, there are contracts with the regional waste disposal companies for all operations and the wastes are followed until they reach to the final point.

Hazardous and non-hazardous waste areas have been established in all SPP and WPP facilities under construction and commissioned in 2019. The ESMP, OHS Management Plan and annexes were prepared for SPP operations. An example of the ESMP and OHS plans of the SPP and WPP operations is given in Annex-14-15.

All HEPP, SPP and WPP workers were trained and instructed to record fauna species detected by the camera system and to register them into the registration form (See Photograph 58 and Annex-3).

The necessary measurements and implementations are made in order to ensure the sustainability of ecosystems in upstream and downstream of HEPPs by taking the measures specified in the Ecosystem Assessment Reports. Controls about fish passage, current monitoring station, follow-up of the eco-flow water left to the stream for natural life were carried out at the HEPPs with regulator to determine the status of the applications in this context. Audits of WPP projects were conducted by GOLDER and SPP projects by ARUP.

The images of the audits are given below (See Photograph 59-60-61-62-63-64).

MT-Yaysun SPP - Dr. Ayşegül İliker **DENİZLİ WPP - Prof. Dr. Şakir Önder Özkurt**

Photograph 58 - Ecosystem-Biological-Diversity Audits in Operation and Construction Sites

HSE Audit-PSI Engil 207 SPP Construction

Boyalı and Kuşoturağı SPP Operations
Photograph 59 : HSE Audit Construction - Operations

MT GES - Yaysun SPP **Omicron Engil 208 SPP - Omicron Erciş SPP**

Photograph 60- HSE Audit- Operations and Construction Sites

Audit of Arup MT SPP and Yaysun SPP (26.06.2019) Audit of Arup MT SPP and Yaysun SPP (26.06.2019)

Photograph 61- Photos of ARUP Audits

Audit of Arup ME-SE SPP (27.06.2019)

Local Residence Interviews By Arup Experts During ME-SE SPP Audit (27.06.2019)

Local Residence Interviews By Arup Experts During Van SPP Projects (28.06.2019)

Photograph 62- ARUP Experts Audits

Photograph 63-Audits of WPP Projects

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 Table-9.

Grievance mechanism is carried out at the Akfen Head Office, operations and constructions. There are boxes for personnel complaints and suggestions at Akfen Head Office, operations and constructions. In addition, complaints and requests can be transmitted with the software used.

All operations have a request and suggestion box for staff complaints (See Photograph 64). The Complaint Mechanism covers external complaints as well as internal complaints. The local people living in the locations where the plants and constructions are located were informed about the grievance mechanism. Effective communication was established with the local people in the project sites.

Photograph 64- Near Miss, Internal Griveance and Suggestion Box

Grievance /Dispute Date	Complainant	Internal/ External/ Court Action	Issue	Solved (Y/N)	Action Taken	Date Closed
2016	Ahmet H.Şenol	Court Action	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/277.)	The case continues as of 2019
2016	Gürcan Yıldırım	Court Action	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/302 E)	The case continues as of 2019
2016	Ahmet Yıldıım	Court Action	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/305 E)	The case continues as of 2019
2016	Mehmet Nebi Karaca	Court Action	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/307 E)	The case continues as of 2019
03.05.2016	Gürcan Yıldırım	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	Y	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/309)	Completed
2016	Feridun Önal Resmigül Önal Nimet Kırşan Ali Önal Serkan Önal	Court Action	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/612 E)	The case continues as of 2019
2016	Ömer Alkan	Dava	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2016/644 E)	The case continues as of 2019
11.07.2016	Ayşe Köseoğlu and the others	Court Action	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)	The case continues as of 2019
01.12.2016	Salih Çakmak	Court Action	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)	The case continues as of 2019
01.12.2016	Dursun Ali Çakmak	Court Action	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)	The case continues as of 2019

Grievance /Dispute Date	Complainant	Internal/ External/ Court Action	Issue	Solved (Y/N)	Action Taken	Date Closed
01.12.2016	Lütfü Güney	Court Action	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)	The case continues as of 2019
01.12.2016	Şaban Çakmak	Court Action	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)	The case continues as of 2019
2017	Nihat Karaca	Court Action	A lawsuit filed for compensation of overflow damages in the plaintiff's property	N	The case was opened (Geyve civil court of first instance 2017/650.)	The case continues as of 2019
2017	Nihat Karaca	Court Action	A lawsuit filed for compensation of overflow damages in the plaintiff's property	Y	The case was opened (Geyve civil court of first instance 2017/651.)	Completed
04.12.2017	Nihat Karaca	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	Y	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/653.)	Completed
04.12.2017	Nihat Karaca	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/652.)	The case continues as of 2019
04.12.2017	Nihat Karaca	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/650.)	The case continues as of 2019
04.12.2017	Erkan Alkan Fatma Işık Nazif Alkan Sevgi Alkan	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/649.)	The case continues as of 2019
04.12.2017	Erkan Alkan Fatma Işık Nazif Alkan Sevgi Alkan	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	N	The Complainant filed a lawsuit. (Geyve Civil Court of first instance 2007/618)	The case continues as of 2019
04.12.2017	Erkan Alkan Fatma Işık Nazif Alkan Sevgi Alkan	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/647.)	The case continues as of 2019

Grievance /Dispute Date	Complainant	Internal/ External/ Court Action	Issue	Solved (Y/N)	Action Taken	Date Closed
04.12.2017	Hanife Apaydın Kadir Sezer Sadettin Yılmaz	Court Action	litigation for damages caused by overflow in plaintiff's property	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/646.)	The case continues as of 2019
04.12.2017	Ahmet Şengül	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/646.)	The case continues as of 2019
04.12.2017	Ahmet Şengül	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	Y	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/645.)	Completed
2017	Yakup Şenol	Court Action	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/686.)	The case continues as of 2019
14.12.2017	Feride Emel Atik	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	Y	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/687.)	Completed
14.12.2017	Yakup Şenol	Court Action	The lawsuit filed in order to compensate for the flooding damage that occurred in the real estate owned by the plaintiff.	Y	The complainant filed a lawsuit. (Geyve civil court of first instance 2017/683.)	Completed
09.01.2018	İbrahim Ören Züleyha Koç	Court Action	A lawsuit filed for compensation of damage caused by water overflow in the plaintiff's property	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2018/17 E.)	The case continues as of 2019
2018	Celal Önal	Court Action	Compensation (confiscating without expropriating)	Y	The complainant filed a lawsuit. (Geyve civil court of first instance 2018/161 E.)	Completed
2018	Fadime Önal	Court Action	Compensation (confiscating without expropriating)	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2018/210 E.)	The case continues as of 2019
2019	Ali Karaca ve Diğerleri	Court Action	Recording of Evidence	N	The complainant filed a lawsuit. (Geyve civil court of first instance 2019/4 D.)	The case continues as of 2019

Grievance /Dispute Date	Complainant	Internal/ External/ Court Action	Issue	Solved (Y/N)	Action Taken	Date Closed
08.02.2019	The General Directorate Of State Hydraulic Works	Court Action	Compensation for the cost of common facility use fee	N	As we use the regulator belonging to DSI within the scope of Sırma HEPP project, a lawsuit has been filed for the payment of the partial construction price of the regulator. The mentioned price has been paid conditionally, The proceedings are ongoing.	The case continues as of 2019
11.07.2019	Mustafa Adıgüzel Süleyman Atay Cevdet Cankardeş Nevzat Yılmaz İbademin Eken Rıfat Pehlivan Selahattin Polat Şenol Koca	Court Action	Cancellation Case of the Zoning Plan	N	In the lawsuit filed against the Konya Metropolitan Municipality regarding the cancellation of the zoning plan of the Me-Se SPP project, Akfen was involved in the case alongside the Konya Metropolitan Municipality. An expert report was received from the committee consisting of 2 professors and 1 doctor lecturer regarding the zoning plan subject to the case and that there was no deficiency in the zoning plan and permits of the project after being involved in the case by Akfen. Rejection of the case was requested by submission of the expert report to the case file. The request is considered by the Court	The case continues as of 2019
04.01.2019	Erdinç İmre	Internal	Improvement of deteriorated roads in winter	Y	Roads were cleaned with manitou and loder.	07.01.2019
14.01.2019	Ramazan Kıyak	Internal	Water booster is constantly deteriorating	Y	Water booster has been replaced	27.01.2019
18.02.2019	Enes Sağlık	Internal	Dirty toilets in the Yaysun office	Y	Cleaning control form was created and regular cleaning was provided	19.02.2019
02.03.2019	Ramazan Koparal	Internal	Working shoes were made bad odour	Y	Shoe brand was changed	11.10.2019
11.03.2019	Tuncer Karaca	External	Damage to the parcel fence next to the dumping site	Y	It was fixed	18.03.2019

Grievance /Dispute Date	Complainant	Internal/ External/ Court Action	Issue	Solved (Y/N)	Action Taken	Date Closed
15.03.2019	Ümit Tezel	External	Dust generation because of the vehicles passing through the village	Y	Water tunk was rented to regular irrigation	19.03.2019
03.04.2019	Mehmet Akçay	External	Rain water filling the garden of a house in Kızılkaya	Y	Concrete was poured in front of the house and the floor was raised	01.05.2019
09.04.2019	Orhan Ayyıldız	Internal	Working cloth was getting smaller as it was washed	Y	A new working cloth was purchased.	10.04.2019
10.04.2019	Unnamed	Internal	Lack of food due to increased number of employees	Y	The amount of food was increased.	18.04.2019
11.04.2019	Unnamed	Internal	Over-speed of private vehicles using the road in front of the operation	Y	Notification of over-speeding vehicles to the gendarmerie	12.04.2019
12.04.2019	Hüseyin Dilek	External	Damaged road of 5kms from Ataköy to Tavas	Y	The village roads are under the responsibility of the Metropolitan Municipality. The roads will be arranged by the Municipality after the completion of the project.	01.10.2019
13.03.2019	Unnamed	Internal	The staircase on the first floor of the dormitory at the campsite does not have a railing	Y	Missing railings were supplied and installed within one week.	20.03.2019
15.04.2019	Unnamed	Internal	Long queues in the cafeteria	Y	Rearrangements was made.	02.05.2019
17.04.2019	Unnamed	External	Mixer and truck vehicles and did not meet speed limits	Y	All drivers were warned and trained	01.05.2019
30.04.2019	Aşır Sayyar	External	Excavation material poured to neighboring parcel during road works	Y	Spilled material were cleaned	30.04.2019
01.05.2019	Abdullah Çimencan	Internal	The locker room was located at the downstairs	Y	The locker room was moved to the entrance floor	10.05.2019
11.05.2019	Unnamed	External	Excavation trucks did not obey the speed limits in the village	Y	Truck drivers were warned	12.05.2019
15.07.2019	Ercan Topçu	Internal	There was a lot of noise because the control room door was iron joinery Control room door replaced with pvc	Y	Control room door replaced with pvc	05.08.2019

Grievance /Dispute Date	Complainant	Internal/ External/ Court Action	Issue	Solved (Y/N)	Action Taken	Date Closed
19.07.2019	Şaban Çakmak	External	Since the channel in the HEPP was curved, excess water overflowed out of the channel.	Y	A trench was built next to the channel to prevent overflow.	26.07.2019
10.09.2019	Erkan Uzuntaş	Internal	Worn out tools were needed to be renewed	Y	New equipment were purchased.	15.09.2019
29.09.2019	Sakin Kıraç	Internal	The camera showing the office entrance is broken	Y	Camera has been renewed	08.10.2019
31.10.2019	Ahmet Turan	Internal	Leftovers from the day shift were offered to night shift staff	Y	New meals were served to the night shift personnel	04.11.2019
01.11.2019	Zakir Başçı	Internal	Locker room was cold all the time.	Y	Heater was placed into the locker room.	10.11.2019
01.11.2019	Erkan Uzuntaş	Internal	Lack of special gloves for use in electrical work	Y	Special gloves were purchased for electricians	03.11.2019
04.11.2019	Hasan Bahar	Internal	Oven was broken	Y	A new oven was purchased	04.11.2019
05.11.2019	Lokman Kahraman	Internal	Security room was cold during night shift	Y	Heater was placed into the security room	08.11.2019
07.11.2019	Ercan Ece	Internal	When two staff was patrolling in the field cannot communicate with each other	Y	4 walkie-talkies were purchased	13.11.2019
13.11.2019	Yusuf İmamoğlu	Internal	Deformed headset needs to be replaced	Y	A new headset was purchased.	20.11.2019
16.11.2019	Alpay Avcı	Internal	There is no fire extinguisher at gthe parking lot	Y	Fire extinguishers were placed to the parking lot	16.11.2019

Table 9- Complaints and Litigations

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

Due diligence reports have been prepared within the scope of the loan studies for all WPP and SPP projects. As a result of these reports, action plans were put forward. commitments have been fulfilled with the support of Environment, OHS, biodiversity, human resources experts and care has been taken to ensure sustainability.

In this reporting period, SPP, WPP and HEPP subcontractors received consultancy services from GOLDER, SELİN and ENVA on environmental, OHS and Biodiversity issues. After the construction of the SPPs were completed and started to operate, the operating companies received consultancy support from ARMA. Construction employees were trained by specialized Biologists, Environmental Engineers, OHS specialists and field identification studies were conducted by the experts. The following plans were prepared by consulting firms for all construction subcontractors (See Tablo 10).

ENVIRONMENTAL DOCUMENTS	OHS DOCUMENTS	BIODIVERSITY DOCUMENTS	STUDIES FOR LOCAL PEOPLE
• Environmental and Social Management Plans • Pollution Control Plan • Waste Management Plan • Leak-Spill • Emergency • Response Plan • Environmental risk analysis • Training Plans	• OHS Management Plan • Emergency Response Procedure and Plans • Reward-Penalty Procedure • Work Permit Procedure • Audit Procedure • Training Procedure • Traffic Management Plan • Off Site Emergency Plan • Community Health and Safety Plan • Site Security Plan • Occupational Health And Safety Instructions • Training Plans	• Biodiversity Action Plan • Training Plans	• Stakeholder Information Brochures • Public Information Meetings

Table 10- Documents Prepared by Subcontractors

Acquisition process negotiations with Zorlu Energy Co. INC. are continuing for Demiriler (23,3 MW) and Sarıtepe (57 MW) WPP projects which are called as Project Taurus in the Bahce District of OSMANİYE Province.

In this context, ESDD was made by Golder and in case of transfer process, all necessary actions will be taken within the scope of ESAP.

AKFEN has been worked with specialized biologists and academicians in all SPP and WPP operations (See Table 12-13-14).

Biodiversity Assessment Reports, Biological Monitoring Reports, Biological Action Plans and fish transportation studies were conducted by teams consisting of ornithologists, zoologists and botanical experts for HEPP, RES and SPP projects. Summary information about the scientific studies are given in Table 12-13-14.

The reports prepared as a result of the studies carried out by experts in 2019 are given in Annex-3 and summarized in Table 11.

PROJECT NAME	NAME OF THE REPORT	REPORT DATE	PROJECT NAME PREPARED BY
Denizli WPP	Characterization of honey belongs to Karacasu district	2018-2019	Ömür Gençay Çelemli Haşim Altınözlü
TOKAT KUŞOTURAĞI SPP	Biological Monitoring Report	April 2019	ENVA
AMASYA BOYALI SPP	Biological Monitoring Report	April 2019	ENVA
PSI ENGIL 207 GES	Biodiversity Conservation Management and Action Plan (Construction Phase)	Mayıs 2019	SELİN - Sema ERGİN
MT-YAYSUN SPP	Biodiversity Conservation Management and Action Plan (Operational Phase)	June 2019	Dr.Ayşegül İLİKER
ME-SE SPP	Biodiversity Conservation Management and Action Plan (Operational Phase)	June 2019	Dr.Ayşegül İLİKER
OMİCRON ERCİŞ SPP OMİCRON ENGİL 208 SPP PSİ ENGİL 207 SPP	Biodiversity Conservation Management and Action Plan (Operational Phase)	June 2019	Dr.Ayşegül İLİKER
MT SPP, Yaysun SPP, ME-SE SPP, Omicron Engil 208 SPP, Omicron Erciş SPP, PSI Engil 207 SPP OPERATIONS	Biological Monitoring Report	2019	Dr. Okan ÜRKER
HASANOBA WPP and KOCALAR WPP	Monitoring of Hasancık Species	April 2019	GOLDER Prof. Dr.Şakir Önder Özkurt
HASANOBA WPP	Bat Monitoring Study	September 2019	GOLDER Prof. Dr.Şakir Önder Özkurt
HASANOBA WPP	Active Turbine Management for Birds Turbine Stop Directive for Necessary Conditions	November 2019	GOLDER Kerem Ali Boyla
KOCALAR WPP and ÜÇPINAR WPP	Paeonia Mascula Subsp. Planting of Seeds of Bodurii Endemic Plant Species	November 2019	GOLDER Academic Haşim Altınözlü
KOCALAR WPP, HASANOBA RES, ÜÇPINAR WPP and DENİZLİ WPP	Biodiversity Activity Report	November 2019	GOLDER Prof. Dr.Şakir Önder Özkurt

Table 11-Documents Prepared as a result of the studies carried out by experts in 2019

Projects	Bird Watching Studies Dr.Ayşegül İLİKER		Flora and Fauna Monitoring Activities Dr. Okan ÜRKER	
	2019 Spring	2019 Autumn	2019 Spring	2019 Autumn
MT–Yaysun PP Yaysun ETLS Mese SPP and ETL Van Projects SPP and ETL	08-11 April 22-24 May 16-18 June	10-12 September 14-17 October 11-16 November	08 April 25 May	28 September 06 October
Malatya SPP and ETL	12 April 25 May 27 June	13 September 18 October 17 November	07 April 24 May	29 September 05 October
MT–Yaysun SPP Yaysun ETL	29-30 Nisan 01-02 May	16-17 September 21-22 October 04-05 November	09 April 23 May	14 September 15 October
Mese SPP and ETL	-	18-19 September 23-24 October	-	05-06 September 12 October

Table 12- Biological Monitoring Field Studies of SPP Operations in 2019

Projects	GOLDER Şakir Önder Özkurt	GOLDER Haşim Altınözlü	Cenk POLAT	Caner GÖNEL	Merve YILDIZBAŞ	İlker ÖZEK	Süleyman Kenan ÇÜNGÜR
Kocalar WPP	12-18 May	-	19 March 30 May	-	15 August 15 September	15 September 15 November	-
Üçpınar WPP	18-24 June	10 Temmuz 9 November	-	15 -31 May 15 August - 15 November	-	-	-
Hasanoba WPP	10-16 September	-	15 August 15 November	-	-	-	-
Denizli WPP	25-31 October	20 August	-	-	-	-	16 September 16 November

Table 13- Biological Monitoring Field Studies of WPP Operations in 2019

Projects	ENVA Burcu Daşer Özgişi	SELİN Sema Ergin
Çamlıca III HEPP Fish Catching-Carrying-Releasing Study	27 April-3 May 25 September- 1 October	-
Amasya Boyalı SPP Biological Monitoring Study	18-19. April	-
Tokat Kuş Oturağı SPP Biological Monitoring Study	15-16-17. April	-
PSI ENGIL 207 SPP Construction Biodiversity Conservation Management and Action Plan Study	-	10. May

Table 14- Fish Catching-Transporting-Releasing Studies and Field Surveys for Biological Monitoring and Detection in 2019

❖ **Summary of seed conservation and reproduction activities in 2019 (Kocalar and Ucpinar WPP);**

Paeonia mascula subsp. bodurii species were identified in Kocalar and Üçpınar WPP project sites. In the field study conducted in July-August, which is the ripening period of the fruits of this species, the ripening fruits were collected and put in cloth bags. The coordinates of the areas where the seeds were collected were recorded. Seeds were re-planted in their habitats on 09.11.2019 to increase and monitor the population. Seed collection was done by Academic Haşim Altınözlü from Hacettepe University, Faculty of Science, Department of Biology (See Photograph 65).

Photograph 65 - Collecting and Planting of Paeonia Mascula Subsp. Bodurii Endemic Plant Species

❖ **Summary of the invasive species removal studies in 2019 (Denizli WPP);**

When the floristic list is examined in the Ecosystem Assessment Report prepared by Prof. Dr. Levent Turan and Dr. Muharrem Karakaya in 2013, Cynodon dactylon (L.) Pers. var. dactylon species was found invasive in the scope of Denizli WPP Project. Fresh samples of this species were collected and removed from the project site in August when the flowering period of the species. (See Annex 3 and Photograph 66).

Photograph 66- C*ollection of cynodon dactylon (L.) pers. var. dactylon species and transportation to non-hazardous waste area of Denizli WPP*

❖ **Collection of cynodon dactylon (L.) pers. var. dactylon species and transportation to non-hazardous waste area of Denizli WPP;**

Bat monitoring studies were carried out for 15 wind turbine and power plant projects planned to be constructed within the scope of Hasanoba WPP project. The site works were carried out on 10-16 September 2019 for 6 nights and 7 days. Three sound recording devices were used for bat observations. Observations were made in areas where bats can be found and in different habitats . The sound of the bats obtained with sound recorders was examined in the computer programs. Species determination was made by evaluating sound analysis, field observations, dead bats and existing. By evaluating the data obtained from site studies and the current literature, a report prepared by Prof. Dr. Şakir Önder (See Photograph 67 and Annex-3).

Photograph 67- Hasanoba WPP Bat Detection Study

- ***Fauna Monitoring Studies in Hasanoba, Üçpınar ve Kocalar WPP;***

Monitoring studies were carried out in 2019 for Myomimus roachi = Yer Yediuyur (Dryomis similar to mouse) and Dryomys (Hasancık) nitedula species in Hasanoba, Üçpınar and Kocalar WPP project sites Traps were established in the designated areas and re-collected the next day. Each traps are individually checked to determine the traps containing live specimens.. The species found in the traps were identified and photographed. Photographs were taken and than back to their natural lives without causing any harm to the species. Studies were made by Prof. Dr.Şakir Önder Özkurt (See Photograph 68)

***Dryomys nitedula* = Hasancık** *Myomimus roachi*= Dryomis (Photo by Ş. Bulut)

Photograph 68 - Species Identification Studies in Kocalar WPP- Hasanoba WPP-Üçpınar WPP

- ***Fish Transportation Study at Çamlıca III Dam and HEPP;***

In order to ensure the sustainability of natural life, there are fish passages in HEPP projects. In the Çamlıca III HEPP project, fish transportation is carried out. The reports on the fish transport are given in Annex-4. The photographs of the fish transportation activities carried out in Çamlıca III Dam and HEPP during the Spring and Autumn periods are given in Photograph 69-70-71.

Photograph 69- Photos of Çamlıca III Dam and HEPP Fish Catching-Transferring-Releasing Process

Photograph 70- Photos of Çamlıca III Dam and HEPP Fish Releasing Process

Capoeta damascina

Capoeta barroisi

Squalius lepidus

Garra rufa

Photograph 71- Some of the transported fishes

- ***Studies to make geographical sign application by using local name of Thyme Honey of Karacasu where location at the Denizli WPP Project;***

Within the scope of Denizli WPP project, a scientific study has been initiated by AKFEN for the development of beekeeping activities, which are among the livelihood sources of the local people. With this study, it is aimed to apply for geographical indication by using local name of Karacasu Thyme Honey. The work started in 2018 and have been continued in 2019. Honey samples collected from Karacasu District were sent to Hacettepe University by beekeepers. The plant origin of honey samples was determined by melisopalinological analysis. Study was conducted by Assoc. Ömür Gençay Çelemli who is a Hacettepe University lecturer.

Honey samples were analyzed in two different laboratories. Images of the analysis of honey samples are given in Photograph 72.

Analyzes in Hacettepe University Laboratory	Analyzes in Muğla Sıtkı Koçman University Food Analyses Implementation and Research Center Laboratory
Counting and calculating the value of honey elements observed in secretion honeys. Moisture, sugar, HMF (hydroxymethylfurfural), ash determination and electrical conductivity analysis were performed in honey samples.	Proline analysis, Diastase number, pH and free acidity, C4 sugar analysis and naphthalene analysis were performed in honey samples.

Interviews with honey producers

Photograph 72 : Images of honey samples and laboratory analysis

- ***Biological (Flora-Fauna) monitoring studies in SPP and WPP construction sites and operations;***

During construction and operation of SPP and WPP projects monitoring activities were carried out by Dr.Ayşegül İLİKER and Dr. Okan ÜRKER at the SPP sites, Cenk Polat, Caner Gönel, Merve Yıldızbaş, İlker ÖZEK, Süleyman Kenan ÇÜNGÜR at the WPP sites to identification of mitigation measures and responsibilities related to biodiversity, preparation of monitoring, supervision and implementation schedule. Biodiversity monitoring and observation studies during the construction and operation of WPP projects were conducted by Prof. Dr. Şakir Önder Özkurt and Instructor Haşim Altınözlü. Images from the studies are at the below.

Instructions were provided to the personnel in all operations for the transmission of the fauna photographs and records identified from the camera recordings and observations to the relevant experts and Akfen Head Office. In addition, all personnel were taken trainings (See Annex-3). The photographs of some of the findings are given below.

Tokat SPP Fauna species detected in camera recordings

Amasya SPP Fauna species detected in camera recordings

Van SPP Fauna species detected in camera recordings

Van SPP Fauna species detected in camera recordings

Kusoturagi SPP Fauna species detected in camera recordings

Photograph 73- SPP Projects Biodiversity Observations

Photograph 74- WPP Projects Biodiversity Observations

Photograph 75- SPP Projects Biodiversity Observations

Photograph 76- WPP Projects Ornithological Monitoring and Observation Studies

Photograph 77- Warning Signs Placed as a Result of Fauna Detection Studies in WPP' s

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

The Human Resources policies adopted are summarized in Figure 13. Human resources and social compliance procedures are summarized in Figure 14. Information about the software programs used within the scope of management systems is also given in Figure 15.

Reveals our perspective on employment, education and development!	Child labor Recruitment Awareness raising of employees Working hours Discrimination Communication Prevention of maltreatment Forced labor Supplier management Education Health and safety Protection of personal data	Reveals our rules adopted for the establishment of information security	Compliance With The Law Respecting Equal Opportunity Respecting Intellectual Property Giving and Receiving Gifts Corruption, Bribery, and Borrowing Purchase Decisions and Practices Information Privacy Information Safety Information Safety Conflict of Interest Working Free-Lance Outside the Corporation Responsible Work Approach Environmental Management Human Rights Social Contribution Accuracy in Financial and Commercial Records Utilization of Akfen's Resources Safe Work Environment

Figure 13- Human Resouces Policy

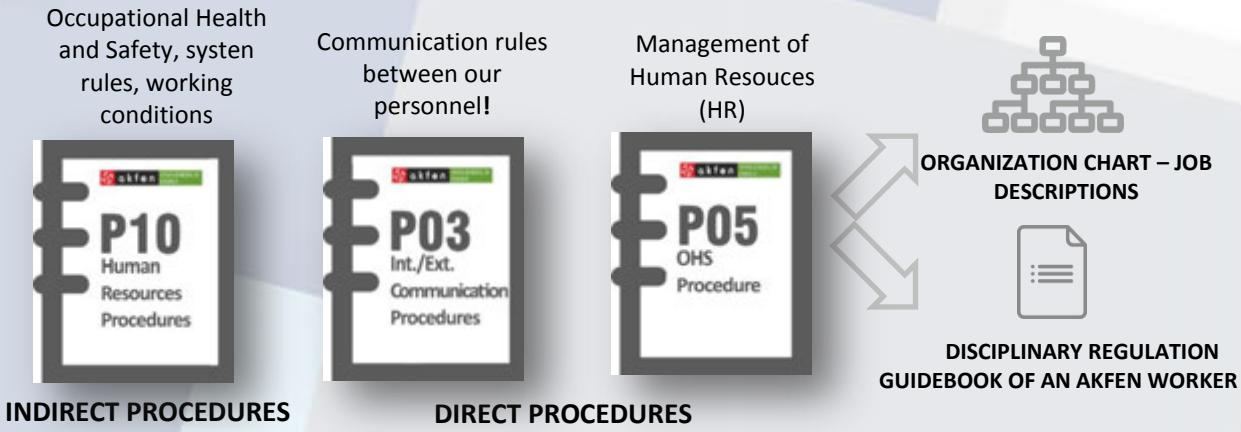


Figure 14- Human Resources and Social Compliance Procedure

Brings business processes all together in the companies and provides the relevant and necessary solutions to be produced quickly.

Analyzes organizational structure, authority mechanisms, labor capacity, human resources processes in detail; establishes the most accurate, effective and long-term infrastructure for institutions by offering modular solutions based on the main system or fully integrated solutions.

An easy-to-use and powerful document management system that makes it easy to manage, find and track documents. Improves the efficiency of companies and workflows, increases the reuse of information.

Occupational Health and Safety Monitoring System

Figure 15- Software Programs Used in the Scope of Management Systems

HR practices have been done in 2019 are summarized in Table-15.

Date	Innovations within the Scope of Human Resources
January 2019 – April 2019	New Performance System, technological infrastructure has been purchased. System design works have been completed in order to follow the target and competency based performance system through the purchased program.
July 2019	Wage improvements were done taking into account personnel performance assessments were made by managers and inflation rate
August 2019	Wage improvements were done taking into account personnel performance assessments were made by managers and inflation rate As of August 2019, the Akfen Renewable Energy Human Resources staff was supported by an Assistant Manager.
October 2019	Short-term personal development trainings was started. System usage trainings were given to the employees. Performance Management and Feedback trainings were provided to employees and managers. Studies have been started to spread the feedback culture within the company. All employees were interviewed one-on-one to conduct Key Performance Indicators of the business processes to be used in the new Performance Management Model.
November 2019	A detailed annual Human Resources Orocess was planned for 2020. Implementation of the Human Resources Procedure established within the scope of the Quality System in 2018 continued in 2019 as wellOur Human Resources policy is announced on our website. In addition, job application and recruitment process are explained in detail on our website and announcements about career and job opportunities are included.

Table 15- Innovations within the Scope of Human Resources in 2019

The main objectives of our Human Resources practices are increasing employee performance by creating a dynamic, open and innovative environment, reduction of corporate objectives to individual objectives and achieving company goals effectively and efficiently. For this purpose, a personnel profile that is open to change and development, high motivation for success, believing in teamwork and spirit, use their resources and time correctly and high social responsibility has been established.

The Human Resources activities conducted in 2019 are summarized below.:

- 16 permanent personnel were recruited instead of the retired personnel and for newly opened positions.
- Orientation training was given to newly recruited personnel. Personnel are provided with individual development, vocational-technical training and compulsory training (OHS, first aid etc.) as required by the legislation.
- Trainings were provided to the personnel for the usage of new programs (m-Files, Humanist vb.) and these programs were put into use.
- Events (christmas, iftar dinners, birthday celebrations etc.) were organized within the scope of motivation management.
- Payroll, declaration and personnel files were prepared and required transactions were carried out in accordance with SSI and Labor legislation as a routine procedure.
- Operation managers were attended to the evaluation meetings.
- Human Resources Performance Assessment and Feedback Training was provided to the Head Office Staff (See Photograph 79)
- Operation managers participated in annual assessment meetings.
- A short video of the Akfen Code of Ethics can be viewed in the HEPP, WPP and SPP operations by using the M-files system.
- Akfen Renewable Energy online training video can be given to newly recruited personnel by way of M-Files. This training contains of introduction of AKFEN and AKFEN Renweable Energy and information on grievance mechanism.

Photograph 78-Operation Managers Evaluation Meeting in 2019

Photograph 79- Human Resources Performance Assessment and Feedback Training

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

Company's workforce profile is given below for 2019.

Site	Number of employees who are directly employed	Number of female employees directly employed	Number of cancellation of labor contract	Number of recruited employees	Number of contractor employees
AKFEN RENEWABLE HEAD OFFICE	40	13	4	3	0
AKFEN ELECTRICITY WHOLESALE	3	2	0	0	0
DOĞANÇAY HEPP	22	2	1	1	0
ELEN ÇAMLICA 3 HEPP	14	-	-	0	-
ELEN DEMİRCİLER HEPP	10	-	-	0	4
ELEN GELİNKAYA HEPP	7	-	-	0	4
ELEN KAVAKÇALI HEPP	12	-	-	0	-
ELEN SARAÇBENDİ HEPP	13	-	-	1	4
ELEN OTLUCA HEPP	22	-	-	1	-
ELEN SEKİYAKA HEPP	9	-	-	0	-
ELEN SIRMA HEPP	8	-	-	0	-
ÇALIKOBASI HEPP	15	-	-	0	5
ÇİÇEKLİ HEPP	11	-	-	10	-
DORUK HEPP	13	-	-	0	4
YAĞMUR HEPP	12	-	-	0	-
DENİZLİ WPP-CONSTRUCTION	-	-	-	0	100
DENİZLİ WPP-OPERATION	-	-	-		10
HASANOBA WPP-CONSTRUCTION	-	-	-	0	100
KOCALAR WPP-CONSTRUCTION	-	-	-	0	150
ÜÇPINAR WPP-CONSTRUCTION	-	-	-	0	150
KOCALAR-ÜÇPINAR-HASANOBA WPP-OPERATION	-	-	-	0	28
AMASYA BOYALI SPP	-	-	-	0	5
DENIZLI ACIPAYAM SPP	-	-	4	0	5
KONYA ME-SE SPP	-	-	-	0	6
SOLENTEGRE SPP	-	-	-	0	5
TOKAT SPP	-	-	-	0	5
VAN OMICRON SPP	-	-	-	0	10
VAN PSI SPP-CONSTRUCTION	-	-	-		65
VAN PSI SPP-OPERATION	-	-	-	0	5
YAYSUN , MT DOGAL and YAYSUN SPP	-	-	-	0	6
YAYSUN SWITCHYARD SPP	-	-	-	0	4
TOTAL	**211**	**17**	**9**	**16**	**675**

Table 16- Workforce Information

Non-compliances with environmental, social and occupational health and safety practices in operations and constructions are recorded by using ID Macro software and fulfilling "Problem Detection and Corrective Action Applications Registration Form" and corrective-preventive actions are taken. Information regarding the records of non-compliances in operations and constructions in 2019 is given in Figure 16-17-18-19.

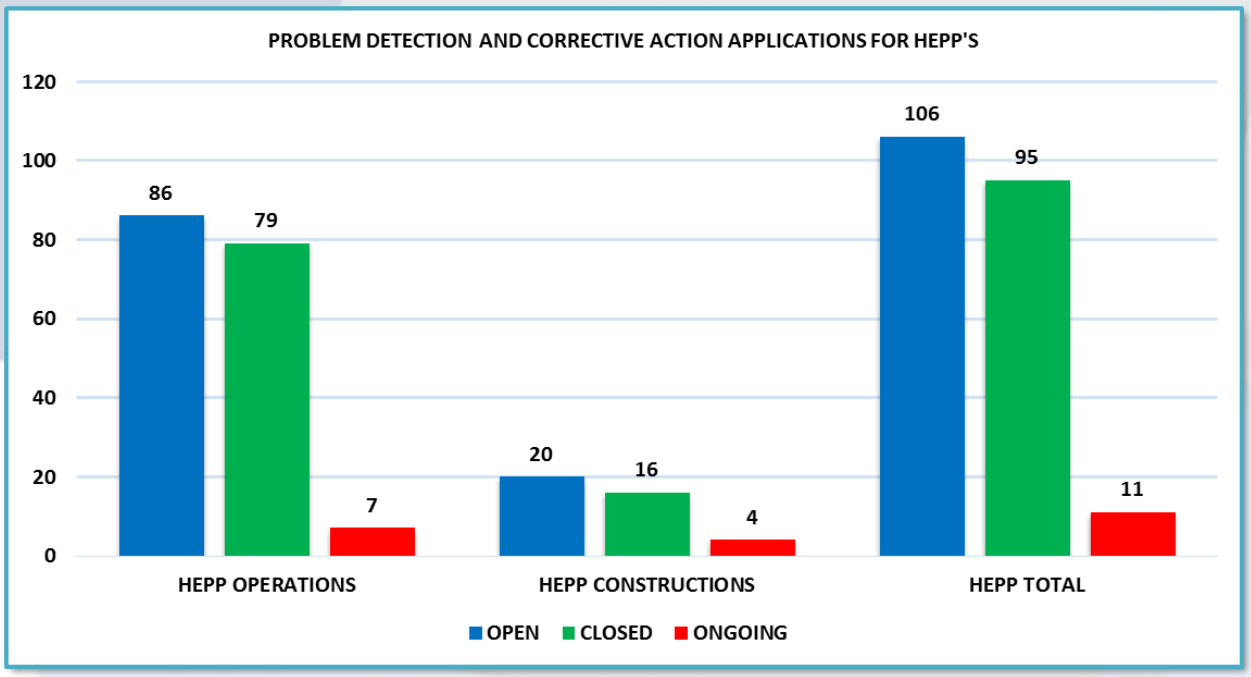


Figure 16- HEPP Projects-Corrective and Preventive Action Practices in 2019

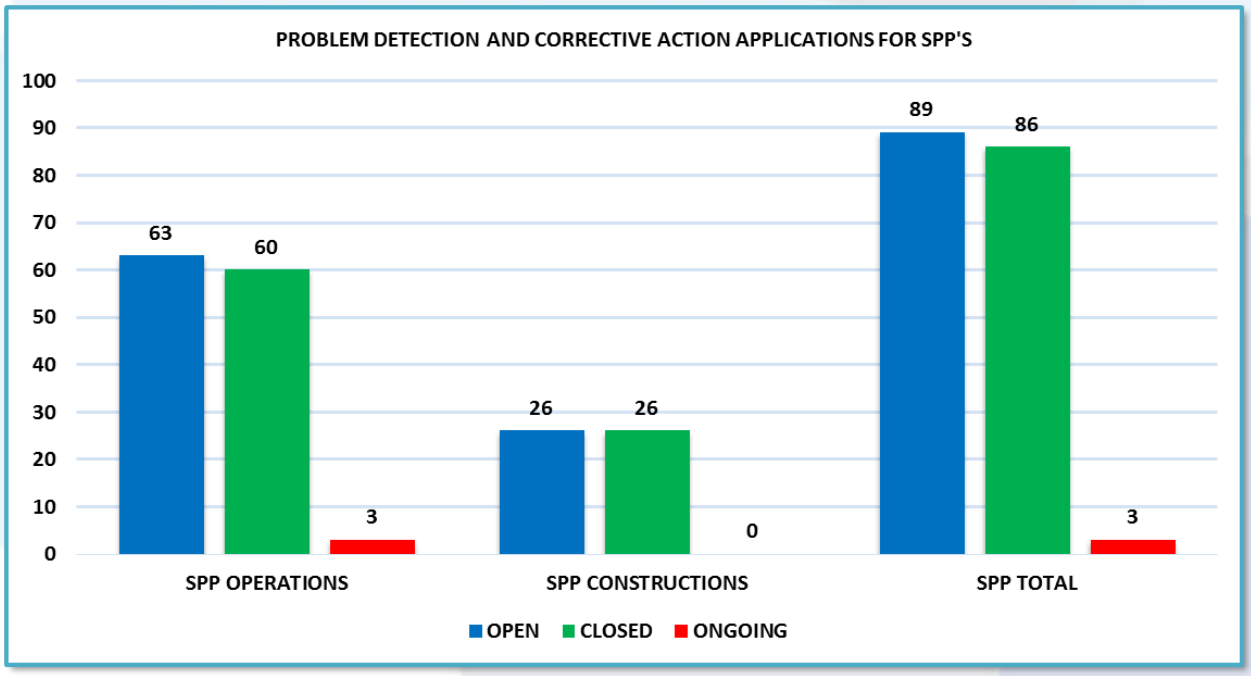


Figure 17- SPP Projects-Corrective and Preventive Action Practices in 2019

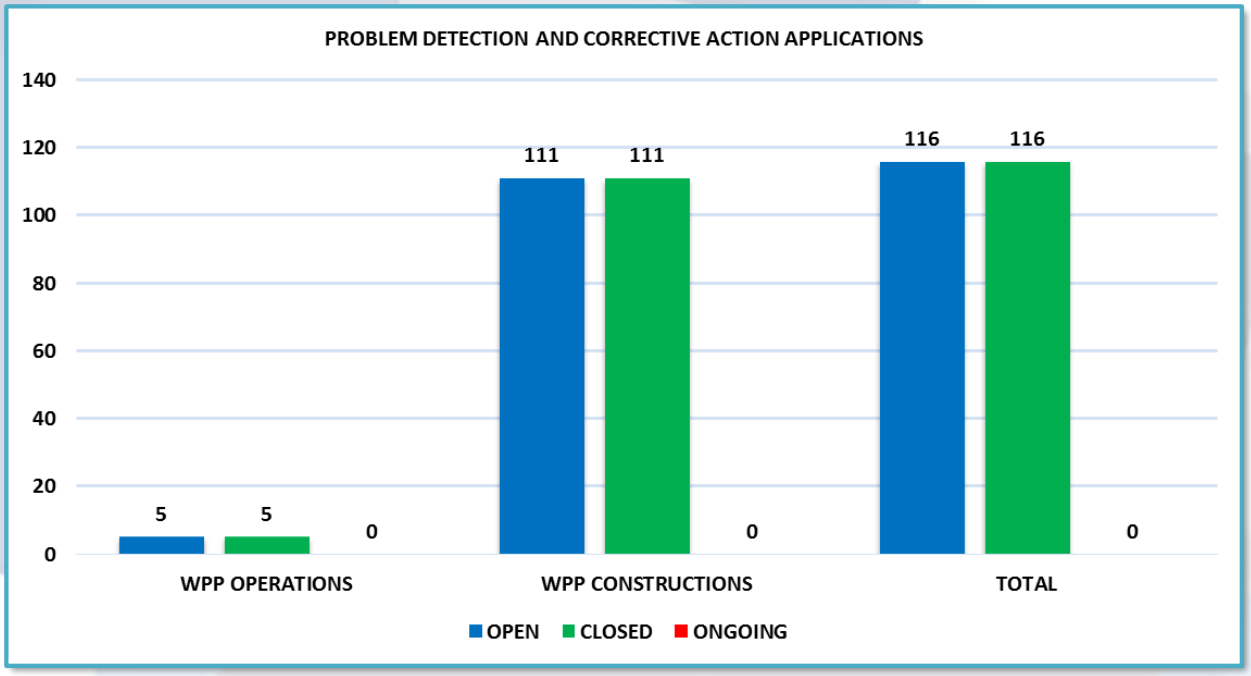


Figure 18- WPP Projects-Corrective and Preventive Action Practices in 2019

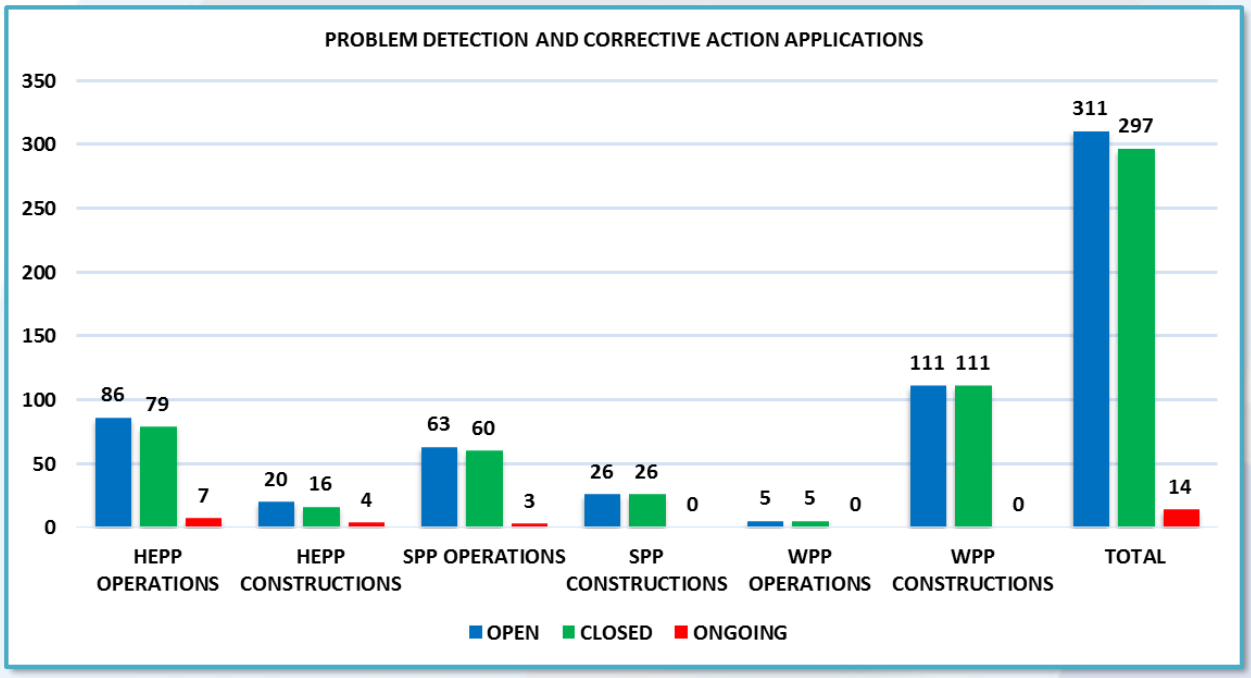


Figure 19- Corrective and Preventive Action Practices in 2019

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.

All legal requirements set by national legislation are fulfilled by head office, operations, new projects under construction during reporting year. At the same time studies are being carried out to meet the requirements of international standards both in the field and in the documentation.

Documentation prepared within the scope of legal regulations and international standards is provided in Table 17 including but not limited to. All the documentation in this table is prepared and recorded by the expert teams both in the operation and the new projects under construction.

Occupational Health and Safety Documentation

- Instructions for devices and equipment
- Annual training plan
- Emergency Response Plan
- Emergency Response Communication
- Visitor and Vehicle Records
- Risk assessments
- OHS committee meeting records
- Records of employee representative selection
- Montly statistics forms
- Permit to work forms
- LOTO records
- Griveance records
- Near miss records
- Health reports and examinations
- Safety data sheets
- Cleaning control records
- Food list with calorie calculation
- PPE embezzlement forms
- Contract of HS Expert
- Contract of workplace doktor
- Contact of medical staff
- Periodic test records
- Periodic maintenance records
- Equipment master list
- Periodic control reports for electric and grounding installment
- Fire extinguisher control form
- Layout plans

The applications are in compliance with OHSAS 18001 Occupational Health and Safety Management System and the principle of continuous improvement is adopted. Within the scope of the Environmental and Social Management System, internal and external audits of the constructions and operations are carried out on environmental-social-OHS issues. (See Annex-8). For the deficiencies identified as a result of the audits performed, Problem Detection and Corrective Action application is carried out and necessary actions are taken. Information regarding the Problem Detection and Corrective Action records during the reporting period is given in Figure 16-17-18-19.

It is compulsory that all personnel working under very dangerous works have to take at least 16 hours of training per year according to national legislation. Employees working in operations and projects under construction have legally compulsory trainings and In addition, the personnel receive training at international standards and all of these trainings are recorded. n this way, it is aimed to raise awareness of personnel about occupational health and safety as well as to raise awareness about cultural heritage, ethical, biodiversity, environment and waste management etc. (See Table 6).

Chemical use is very low since Company's plants use renewable energy sources (See Table 27). Chemical wastes are stored and disposed in accordance with the relevant legislation. The material safety data sheets (MSDS) belonging to the used chemicals are kept in the operations and projects under constrruction. Storage of flammable properties, exposure and disposal of wastes, etc. are in compliance with the provisions of the Material Safety Data Sheet. ISO 14001 Environmental Management System and OHSAS 18001 Occupational Health and Safety Management System implementations include; 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. and keeping records.

Internal and external audits were carried out HEPP and SPP operations and also during construction period of Hasanoba WPP, Kocalar WPP, Üçpınar WPP, Denizli WPP ve PSI Engil 207 SPP. The control forms of the inspections are given in Annex 8.

Examples of OHS practices in operations and construction sites are given below (See Photograph 80-85).

ME-SE SPP-Fire Extinguisher ME-SE SPP-Warning Sign

Photograph 80- Examples of HS Aplications in Operation Sites

Tokat Kuşoturağı SPP-Complaint and Suggestion Box

Emergency Responce Communication

Hasanoba WPP-Warning Signs

Çalıkobası HEPP-Warning Signs

Photograph 81- Examples of HS Aplications in Operation Sites

Çalıkobası HEPP-Life Buoy

Çalıkobası HEPP-Handrails

Çamlıca III HEPP-Maintenance of a panel

Çamlıca III HEPP-Disinfection

Photograph 82- Examples of HS Aplications in Operation Sites

Çamlıca III HEPP-PPE Closet

Çamlıca III HEPP-First Aid Box and Strecher

Demirciler HEPP-Warning Signs

Demirciler HEPP-Life Vest

Photograph 83- Examples of HS Aplications in Operation Sites

Doruk HEPP-Warning Sign at gthe Parking Lot

Gelinkaya HEPP-Warning Signs

Kavakçalı HEPP-LOTO Station

Yağmur HEPP-Fire Drill

Photograph 84- Examples of HS Aplications in Operation Sites

Photograph 85- PSI Engil 207 SPP Construction Site-Warning Signs and PPE Usage

***Environmental Studies*;**

there are contracts with the licensed companies for the regional waste management in all operations and wastes are followed up to the licensed disposal facility. Examples of waste management practices in plants and construction sites are given below.

Amasya Boyalı SPP Waste Sorting Containers ME-SE SPP Waste Sorting Containers

Photograph 86- Waste Sorting Containers Used in Operations

Doruk HEPP Spill Kit Sekiyaka HEPP Spill Kit

Photograph 87- Spill Kit Sets in Operations

Çalıkobası HEPP- Temporary Waste Storage Area

Saraçbendi HEPP - Temporary Waste Storage Area

Photograph 88- Temporary Waste Storage

Photograph 89- Hasanoba WPP-Temporary Waste Storage Areas (Hazardous and Non Hazardous Waste)

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

Occupational hygiene measurements should be repeated simultaneously with the renewal of risk analyzes prepared on the basis of workplace hazard class according to Regulation on Labor Hygiene Measurement, Test and Analysis Laboratories dated 24.01.2017 and numbered 29958. In this context, temperature, humidity, personal noise, ambient noise and lighting measurements were repeated in 2019. Measurements made during the reporting period are given in Table 18. The measurements were made by Selin Measurement Laboratory which has Accreditation Certificate. The measurement results are below the limit values defined in the legislation. A few examples of Occupational Hygiene measurement reports are provided in Annex-5.

Operations	2019 Occupational Hygiene Measurements (Date of Reports)			
	Thermal Comfort Measurement	Noise Exposure Measurement	Ambient Noise Measurement	Lightning measurement
Akfen Head Office	23.09.2019	-	23.09.2019	23.09.2019
Otluca HEPP	04.12.2019	04.12.2019	04.12.2019	04.12.2019
Sırma HEPP	28.08.2019	28.08.2019	28.08.2019	28.08.2019
Sekiyaka I HEPP	29.08.2019	29.08.2019	29.08.2019	29.08.2019
Sekiyaka II HEPP	02.09.2019	02.09.2019	02.09.2019	02.09.2019
Demirciler HEPP	26.08.2019	26.08.2019	26.08.2019	26.08.2019
Kavakçalı HEPP	27.08.2019	27.08.2019	27.08.2019	27.08.2019
Gelinkaya HEPP	17.07.2019	17.07.2019	17.07.2019	17.07.2019
Saraçbendi HEPP	12.07.2019	12.07.2019	12.07.2019	12.07.2019
Çamlıca III Dam and HEPP	12.07.2019	12.07.2019	12.07.2019	12.07.2019
Doruk HEPP	17.07.2019	17.07.2019	17.07.2019	17.07.2019
Yağmur HEPP	17.07.2019	17.07.2019	17.07.2019	17.07.2019
Doğançay I HEPP	14.11.2019	14.11.2019	14.11.2019	14.11.2019
Doğançay II HEPP	14.11.2019	14.11.2019	14.11.2019	14.11.2019
Çalıkobası I HEPP	05.07.2019	05.07.2019	05.07.2019	05.07.2019
Çalıkobası II HEPP	16.07.2019	16.07.2019	16.07.2019	16.07.2019
Çiçekli HEPP	31.10.2019	31.10.2019	31.10.2019	31.10.2019
Solentegre SPP	04.07.2019	04.07.2019	04.07.2019	04.07.2019
Denizli SPP Projects	28.08.2019	28.08.2019	28.08.2019	28.08.2019
Amasya Boyalı SPP Projects	12.07.2019	12.07.2019	12.07.2019	12.07.2019
Tokat Kuşoturağı SPP Projects	12.07.2019	12.07.2019	12.07.2019	12.07.2019
Omicron Erciş SPP	05.07.2019	05.07.2019	05.07.2019	05.07.2019
Omicron Engil 208 SPP	05.07.2019	05.07.2019	05.07.2019	05.07.2019
PSI Engil 207 SPP	11.12.2019	11.12.2019	11.12.2019	11.12.2019
MT SPP	04.07.2019	04.07.2019	04.07.2019	04.07.2019
Yaysun SPP	03.07.2019	03.07.2019	03.07.2019	03.07.2019
Yaysun SPP TM	04.07.2019	04.07.2019	04.07.2019	04.07.2019
ME-SE SPP	03.07.2019	03.07.2019	03.07.2019	03.07.2019
Hasanoba WPP	24.09.2019	24.09.2019	24.09.2019	24.09.2019
Üçpınar WPP	24.09.2019	24.09.2019	24.09.2019	24.09.2019
Kocalar WPP	24.09.2019	24.09.2019	24.09.2019	24.09.2019
Denizli WPP	19.12.2019	19.12.2019	19.12.2019	19.12.2019

Table 17- Occupational Hygiene Measurements

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

Parameter	This reporting period		Reporting period- Previous year	
	Direct employees	Contractor employees		Direct employees
Total number of Workers	211	675	283	317
Total man-hours worked - Annual	508.088	1.625.400	739.144	1,081.192
Total number of lost time occupational injuries	0	5	0	3
Total number of lost workdays due to injuries	0	94	0	69
Number of fatalities	0	0	0	0

Table 18- Lost Workday Data

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

Company or contractor?	Total lost workday	Explanation of the injury	Reason of accident	Corrective measurements to prevent reoccurrence
Contractor's personnel (24.01.2019)	40	In Ucpinar WPP a traffic accident occurred by making a lane violation as a result of the vehicle entering the wrong lane where the contractor employee was going at the right lane of the road. Contractor personnel was driving on his own lane. Lane violation was made by a local driver.	Lack of experience and attention Negative weather condition	All employees were trained on traffic rules and driving instructions, increased number of toolboxes on traffic measurements.
Contractor's personnel (25.03.2019)	0	Stacked iron fell on to a staff's hand in Hasanoba WPP.	Carelessness	Employees were trained on stacking iron and material.
Contractor's personnel (04.03.2019)	3	A hand tool was dropped to a worker's hand in Üçpınar WPP.	Carelessness, no usage of utility box	A training was given on using and carrying hand tools
Contractor's personnel (19.06.2019)	0	A traffic accident in Denizli WPP	Carelessness	A training was given on traffic and driving rules.
Contractor's personnel (19.06.2019)	45	While the medium voltage panel was taken into the control building by a mobile crane, one of the slings used for lifting the panel was torn. As a result of accident one employee's leg was crushed and the other other one's left ankle was injured by compression of the panel.	Lack of periodic control	Periodic controls of lifting equipment was reviewed. Field control forms were created for lifting equipment. Personnel were trained on lifting equipment.

Company or contractor?	Total lost workday	Explanation of the injury	Reason of accident	Corrective measurements to prevent reoccurrence
Contractor's personnel (27.06.2019)	1	The steel sling was hit the face of a personnel in Hasanoba WPP construction site.	Carelessness	A training was given to personnel on lifting equipment.
Contractor's personnel (18.07.2019)	5	The working staff was twisted in the Hasanoba WPP construction site.	Carelessness	General OHS rules in the site was repeated with a toolbox.

Table 19- 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 where Akfen Head Office, operation and projects under construction in 2019. However a local person died in a traffic accident, a contractor employee was injured and material damage occurred in the vehicle at the same accident.

Date of incident	Type of incident	Brief description of incident	Fatalities ? (Y/N)	No of fatalities	Preventive measures taken after the incident
24.01.2019	Traffic accident	A traffic accident was occurred by making a lane violation as a result of the vehicle entering the wrong lane where the contractor employee was going at the right lane of the road.	N	None	All employees were trained on traffic rules and driving instructions, increased number of toolboxes on traffic measurements.
19.06.2019	Lost Day Accident	While the medium voltage panel was taken into the control building by a mobile crane, one of the slings used for lifting the panel was torn.	N	None	Periodic controls of lifting equipment was reviewed. Field control forms were created for lifting equipment. Personnel were trained on lifting equipment.

Table 20- 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.

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 environmental noise at the . HEPPs since they are in the a closed building. Environmental measurements were made for WPP constructions in 2019.

- ***Ambient noise:***

In this report period, environmental noise measurement made by the accredited laboratory in construction sites is given in Table 21. and the measurement reports are given in Annex-6.

- ***Ambient air quality:***

In this report period, air quality measurement made by the accredited laboratory in construction sites is given in Table 21. and the measurement reports are given in Annex-6.

Precipitated dust emission results measured in the all WPP constructions are exceeded the limit value of the National Regulation on the Control of Industrial Air Pollution and International IFC-WHO Short-term and long term limit values.

Dust emissions results measured in the all WPP constructions are exceeded the limit value of the National Regulation on the Control of Industrial Air Pollution and WHO Outdoor air quality guide and IFC General SHE guide limit values.

The noise measurement results measured in all WPP constructions are exceeded the limit values given in the National Environmental Noise Assessment and Management Regulation and the International IFC Noise Directive.

WPP Sites	Locations measurement made	2019 Environmental Measurements (Report Dates)		
		Environmental Noise Measurement	Environmental Dust Measurement (PM10)	Collapsed Dust Measurement
Üçpınar WPP	Hacıgelen-Üçpınar	06.05.2019 07.05.2019	06.05.2019 07.05.2019	06.05.2019- 06.06.2019
Kocalar WPP	Çamyayla-Harmancık	07.05.2019 08.05.2019	-	-
Hasanoba WPP	İntepe-Erenköy	08.05.2019 09.05.2019	08.05.2019 09.05.2019	08.05.2019 07.06.2019
Denizli WPP	Işıklar-Ataköy	10.05.2019 11.05.2019	10.05.2019 11.05.2019	10.05.2019 09.06.2019

Table 21- Environmental Measurements

- ***Liquid effluent discharges;***

There is no wastewater treatment plant because of the small number of employees. All of the facilities have a leakproof septic tanks and can be emptied with a vacuum truck service. Constructions were completed in 2019 and all constructions were put into operation.

There is no discharge of liquid waste, there is no need to make measurements for discharging conditions in the operations.

Photograph 90- Hasanoba WPP Leakproof Septic Tank

- ***Resources and Energy Consumption:***

Energy sources and consumption amounts used in operations and construction sites are given in Table22.

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 Dogancay HEPP is given as an example in Annex-15.

The AKFEN Head Office produces electricity with the Off Grid system and illuminates the building exterior with this energy.

Photograph 91- Head Office Off-Grid System

Same way; the electricity need of MT SPP, Yaysun SPP, PSI ENGIL 207 SPP, ME-SE SPP, Omicron Engil 208 SPP and Omicron Erciş SPP operations is also provided from Off-Grid System. The application images are in the below.

OMİCRON ERCİŞ SPP

PSI ENGIL 207 SPP

MT SPP

ME-SE SPP

Photograph 92- Off Grid System of SPP Operations

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.

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

Energy production and natural resource consumption of Akfen head office, all operations and constructions in 2019 are given in Table 22.

UTILITY TYPE	ENERGY AND WATER CONSUMPTION AMOUNT IN 2019					
	Electricity Production	Electricity Consumption	Natural Gas	Diesel	Other Fuel (specify)	Water
UNIT / PROJECTS	MWh	MWh	m^3	lt	lt	m^3
AKFEN HEAD OFFICE	-	142,00	120100,00	5742,00	-	3109,00
OTLUCA HEPP	192225,50	266,65	-	13500,00	-	720,00
SIRMA HEPP	15301,00	110,00	-	2600,00	-	420,00
SEKİYAKA II HEPP	14059,90	129,24	-	3670,00	-	200,00
DEMİRCİLER HEPP	19883,00	258,00	-	5800,00	-	300,00
KAVAKÇALI HEPP	27048,24	107,83	-	3871,00	-	100,00
GELİNKAYA HEPP	11819,13	67,21	-	1250,00	-	180,00
SARAÇBENDİ HEPP	65300,00	202,00	-	1250,00	-	14,00
ÇAMLICA III DAM AND HEPP	58000,00	131,00	-	11600,00	-	150,00
DORUK HEPP	64613,00	274,00	-	6200,00	-	170,00
YAĞMUR HEPP	20480,58	87,91	-	3765,00	-	38,00
DOĞANÇAY HEPP	99586,00	370,00	-	7710,00	-	3578,00
ÇALIKOBASI HEPP	24829,45	287,86	-	14412,00	-	305,00
ÇİÇEKLİ HEPP CONSTRUCTION	-	30,00	-	10000,00	-	200,00
ÇİÇEKLİ HEPP OPERATION	1627,47	9,48	-	1300,00	-	1,00
SOLENTEGRE SPP	12073,56	52,61	-	960,00	-	36,00
AKFEN RENEWABLE SPP	762,40	6,46	-	60,00	-	1,00
DENİZLİ SPP PROJECTS	10841,78	77,68	-	20,00	-	147,00
AMASYA BOYALI SPP PROJECTS	18651,00	94,00	-	15,00	-	2,00
TOKAT KUŞOTURAĞI SPP PROJECTS	9140,00	75,00	-	10,00	-	2,00
OMICRON ERCİŞ SPP	19638,18	89,08	-	-	-	500,00
OMICRON ENGİL 208 SPP	19704,83	102,00	-	2880,00	-	1500,00
PSI ENGİL SPP	8119,91	24,73	-	-	-	500,00
MT SPP	17776,77	25,00	-	1050,00	-	150,00
YAYSUN SPP	18363,33	139,00	-	2725,00	-	185,00
YAYSUN SPP 0,5	764,60	11,00	-	525,00	-	185,00
ME-SE SPP	17226,47	78,00	-	200,00	-	28,65
HASANOBA WPP	28317,76	624,34	-	1140,00	-	70,00
KOCALAR WPP	70420,21	1241,73	-	5920,00	-	100,00
ÜÇPINAR WPP	166515,45	984,60	-	4890,00	-	90,00
DENİZLİ WPP	29986,89	579,32	-	1282,00	-	55,00
TOTAL	**1063076,41**	**6472,87**	**120100,00**	**114347,00**	**-**	**13036,65**

Table 22- Energy Production and Water Consumption Amounts for 2019

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, wind and solar energy are used. For this reason, there is no direct CO_2 emission related to production. There is only indirect CO_2 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 in Annex-9.

AKFEN HEAD OFFICE	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	357,57 tCO2	* Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and vehicle maintenance on a regular basis ▪ Train staff to prevent unnecessary operation of vehicle engines, ▪ Prefer low CO_2 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 CO_2 reduction tCO_2	-357,57			

OTLUCA HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	223,16 tCO2	* Use of passenger cars	0,5 %	▪ 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)	192225,50			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	135134,53			
Total CO_2 reduction tCO_2	134911,37			

SIRMA HEPP	Annual Quantity	Units	Target Reductio (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	84,21 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	15301,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	10756,60			
Total CO_2 reduction tCO_2	10672,39			

SEKİYAKA HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	100,56 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	14059,90			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	9884,11			
Total CO_2 reduction tCO_2	9783,55			

DEMİRCİLER HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	196,71 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	19883,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	13977,75			
Total CO_2 reduction tCO_2	13781,04			

KAVAKÇALI HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	86,04 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	27048,24			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	19014,91			
Total CO_2 reduction tCO_2	18928,87			

GELİNKAYA HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	50,556 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	11819,13			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	8308,85			
Total CO_2 reduction tCO_2	8258,30			

SARAÇBENDİ HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	145,31 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	65300,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	45905,90			
Total CO_2 reduction tCO_2	45760,59			

ÇAMLICA III BARAJI VE HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	122,77 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	58000,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	40774,00			
Total CO_2 reduction tCO_2	40651,23			

DORUK HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	209,02 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	64613,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	45422,94			
Total CO_2 reduction tCO_2	45213,92			

YAĞMUR HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	71,76 tCO2	* Use of passenger cars	0,5 %	▪ 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)	20480,58			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	14397,85			
Total CO_2 reduction tCO_2	14326,09			

DOĞANÇAY HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	280,50 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	99586,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	70008,96			
Total CO_2 reduction tCO_2	69728,46			

ÇALIKOBASI HEPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	96,46 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	24829,45			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	17455,10			
Total CO_2 reduction tCO_2	17358,64			

ÇİÇEKLİ HEPP Construction	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	47,54 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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 CO_2 reduction tCO_2	-47,54			

ÇİÇEKLİ HEPP Operating	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	10,10 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ Having periodic generator and 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)	1627,47			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	1144,11			
Total CO_2 reduction tCO_2	1134,01			

SOLENTEGRE SPP	Annual Quantity	Units	Target Reducti (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	39,52 tCO2	* Use of passenger cars	0,5 %	▪ 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)	12073,56			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	8487,71			
Total CO_2 reduction tCO_2	8448,19			

AKFEN YENİLENEBİLİR SPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	4,70 tCO2	* Use of passenger cars	0,5 %	▪ 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)	762,40			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	535,97			
Total CO_2 reduction tCO_2	531,27			

DENİZLİ SPP PROJECTS	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	54,66 tCO2	* Use of passenger cars	0,5 %	▪ 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)	10841,78			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	7621,77			
Total CO_2 reduction tCO_2	7567,11			

AMASYA SPP PROJECTS	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	66,12 tCO2	* Use of passenger cars	0,5 %	▪ 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)	18651,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	13111,65			
Total CO_2 reduction tCO_2	13045,53			

TOKAT SPP PROJECTS	Annual Quantity	Units	Target Reduction (%	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	52,75 tCO2	* Use of passenger cars	0,5 %	▪ 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)	9140,00			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	6425,42			
Total CO_2 reduction tCO_2	6372,67			

OMICRON ERCİŞ SPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	62,62 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	19638,18			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	13805,64			
Total CO_2 reduction tCO_2	13743,02			

OMICRON ENGİL 208 SPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	79,32 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	19704,83			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	13852,50			
Total CO_2 reduction tCO_2	13773,18			

PSI ENGİL 207 SPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	17,39 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	8119,91			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	5708,30			
Total CO_2 reduction tCO_2	5690,91			

MT SPP	Annual Quantity	Units	Target Reducti (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	20,35 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	17776,77			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	12497,07			
Total CO_2 reduction tCO_2	12476,72			

YAYSUN SPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	104,92 tCO2	* Use of passenger cars	0,5 %	▪ 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) The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	18363,33			
Total CO_2 reduction tCO_2	12909,42			
Direct CO_2 emission intensity	12804,50			

YAYSUN SPP 0,5	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	9,12 tCO2	* Use of passenger cars	0,50%	▪ 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)	764,60			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	537,51			
Total CO_2 reduction tCO_2	528,39			

ME-SE SPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	55,36 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	17226,47			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	12110,21			
Total CO_2 reduction tCO_2	12054,85			

HASANOBA WPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	441,93 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	28317,76			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	19907,39			
Total CO_2 reduction tCO_2	19465,46			

KOCALAR WPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	888,59 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	70420,21			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	49505,41			
Total CO_2 reduction tCO_2	48616,82			

ÜÇPINAR WPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	705,11 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	166515,45			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	117060,36			
Total CO_2 reduction tCO_2	116355,25			

DENİZLİ WPP	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	-	-
Indirect CO_2 emission intensity	410,65 tCO2	*Generator Usage * Use of passenger cars	0,5 %	▪ 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)	29986,89			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	21080,78			
Total CO_2 reduction tCO_2	20670,13			

TOTAL	Annual Quantity	Units	Target Reduction (%)	Actions to beTaken
Direct CO_2 emission intensity	-	-	0,50%	▪ Having periodic generator maintenance on a regular basis ▪ 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 CO_2 emission intensity	5095,39 tCO2	*Operations *Constructions*Head Office		
Total production (annual total electricity generation MW / h)	1063076,41			
The amount of greenhouse gas reduction due to electricity generation from the renewable source, tCO_2 (according to Table 1 given in EBRD-GN4)	747342,72			
Total CO_2 reduction tCO_2	742247,33			

Table 23- Greenhouse gas emissions and greenhouse gas reduction values In 2019

The greenhouse gas reduction assessments of 2019 are given in Figure 19. The comparison of greenhouse gas reduction with previous years is given in Figure 20.

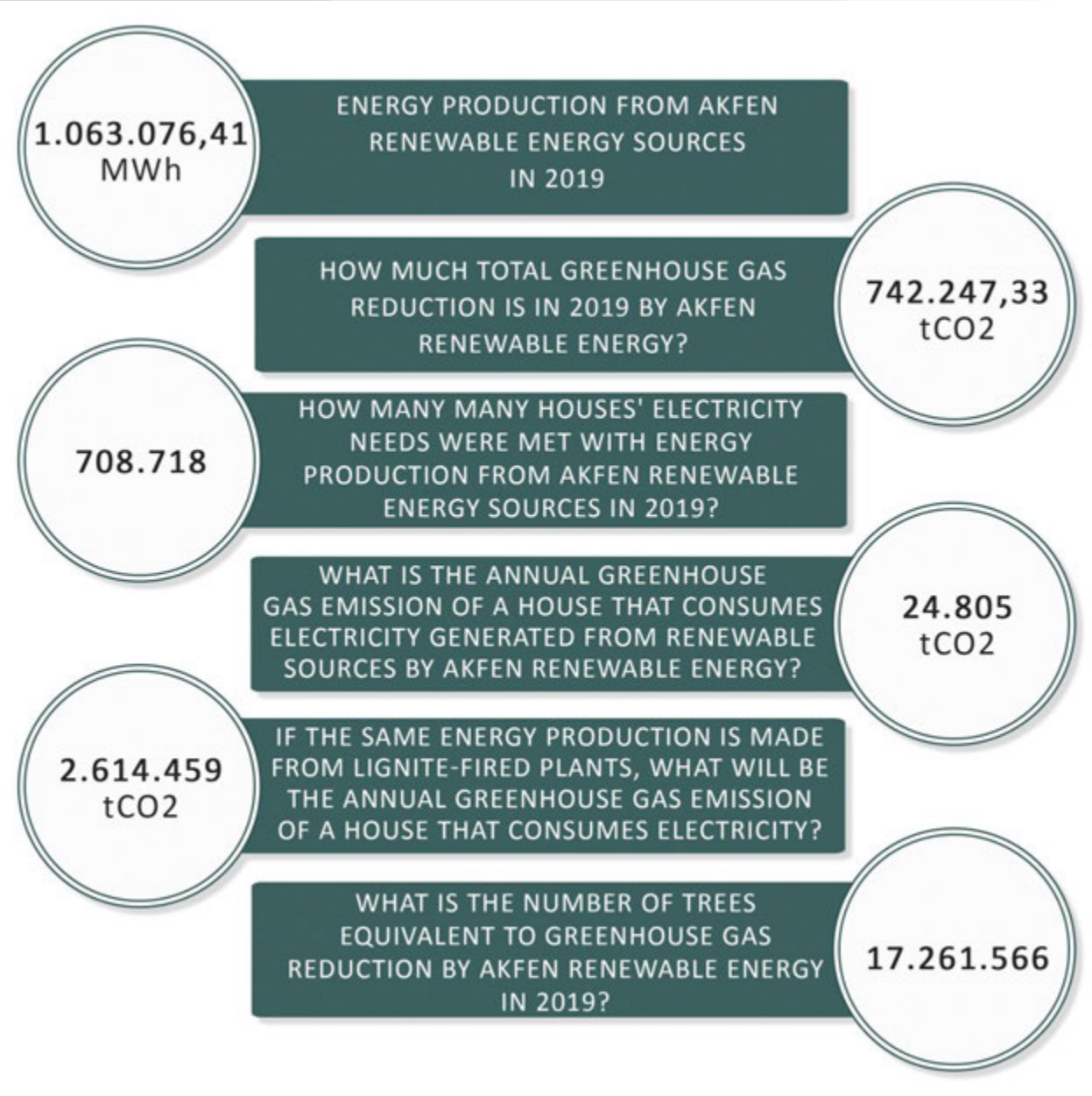


Figure 20-Greenhouse Gas Reduction Assessment for 2019

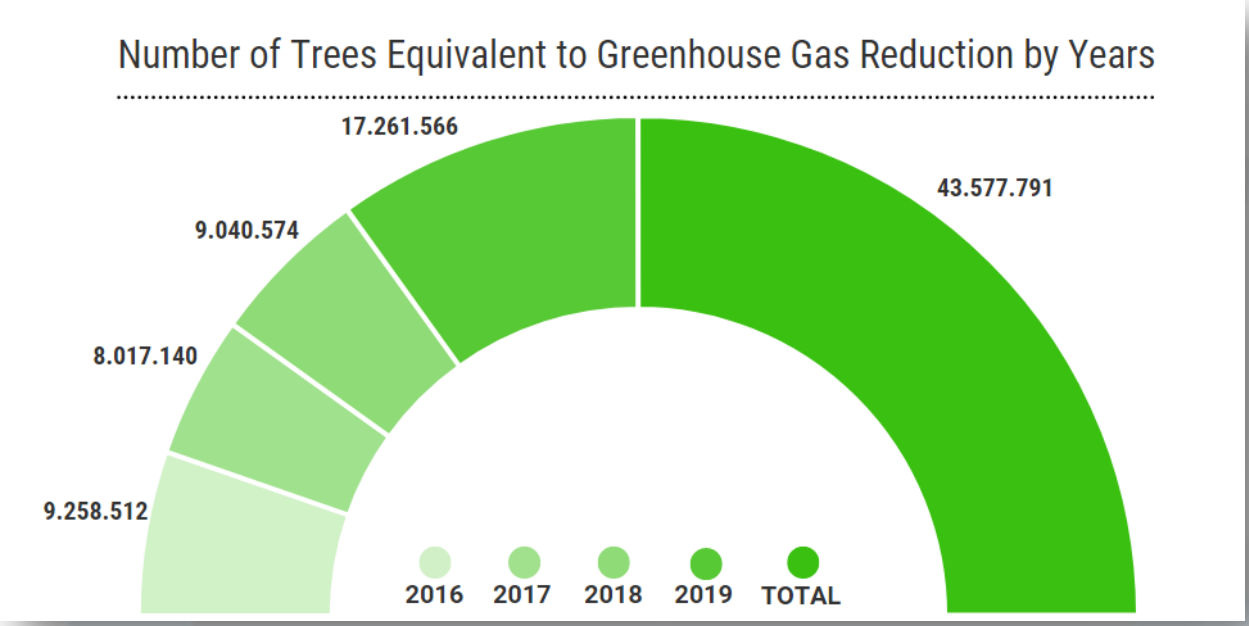


Figure 21 : Number of Trees Equivalent to Greenhouse Gas Reduction by Years

As a result of the waste management activities implemented in the construction and operation sites, a total of 1230 kg of waste paper was collected separately and recycled. Recycling of 1 ton of waste paper prevents the cutting of about 17 adult trees. Approximately 21 trees were preventing from cutting by recycling waste paper.

GS and VCS projects have been developed by Company in the scope of Voluntary Carbon Market for carbon reduction in the table 25. Carbon credit amounts are given in the HEPP projects whose verification studies are finished. Verification and registration studies for SPP projects are ongoing. Carbon certification works will also be initiated for new WPP projects.

Project	Certificate	Date	Credit Amount (tCO2e)
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	VCU	2011	4.564
		2012	12.804
		2013	6.615

Project	Certificate	Date	Credit Amount (tCO2e)
Demirciler HEPP	VCS	GS registered. – Transferred to VCS and the first verification studies are continuing at the same time.	0
Gelinkaya HEPP	VCS	GS registered. – Transferred to VCS and the first verification studies are continuing at the same time.	0
Kavakçalı HEPP	VCS	GS registered. – Transferred to VCS and the first verification studies are continuing at the same time.	0
Sekiyaka HEPP	VCS	GS registered. – Transferred to VCS and the first verification studies are continuing at the same time.	0
Yağmur HEPP	VCS	GS registered. – Transferred to VCS and the first verification studies are continuing at the same time.	0
Doğançay HEPP	VCS	VCS registered.- The verification has not done yet, need to be	0
Çalıkobası HEPP	---	No carbon verification study.	0
Amasya Boyalı SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
Tokat Kuşoturağı SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
Yaysun SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
MT SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
ME-SE SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
Omicron Engil SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
Omicron Erciş SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
PSI ENGIL 207 SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
Solentegre SPP	GS	Application made for registration to GS, First Evaluation Arrived, Registration to be completed by the end of the year	0
Fırıncı SPP	VCS	VCS Validation is about to completed. Validation and Registration to be completed by the end of the year	0
Üçpınar WPP	VCS	Application made for registration to VCS. Registration to be completed by mid-November	0
Kocalar WPP	VCS	Application made for registration to VCS. Registration to be completed by mid-November	0
Hasanoba WPP	VCS	Application made for registration to VCS. Registration to be completed by mid-November	0
Denizli WPP	VCS	Application made for registration to VCS. Registration to be completed by mid-November	0
		TOTAL	449.769

Table 24- VCS Carbon Credit Amounts

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

WASTE TYPE / PROJECTS	TOTAL WASTE AMOUNTS IN 2019							
	Domestic Waste (kg)	Mixed Packaging Waste (kg)	Waste Oil/ (kg)	Lead batteries (kg)	Waste Fluorescent (kg)	Contaminated Materials (kg)	Contaminated Packages (kg)	Waste Vegetable Oil (kg)
STORAGE,USAGE AND/OR DISPOSAL METHOD	Given to municipality	Given to municipality	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers
OTLUCA HEPP	1200	15	0	0	0	0	0	0
SIRMA HEPP	1.150	10	0	0	0	0	0	0
SEKİYAKA HEPP	750	75	0	100	0	50	20	0
DEMİRCİLER HEPP	2.600	8	0	1,5	1	1	7	8
KAVAKÇALI HEPP	1.450	20	200	0	20	50	20	30
GELİNKAYA HEPP	780	15	15	4	4	5	0	0
SARAÇBENDİ HEPP	3.850	45	925	3	15	30	15	50
ÇAMLICA HEPP	3.850	250	20	90	8	60	0	10
DORUK HEPP	3.000	5	800	16	4	7	50	20
YAĞMUR HEPP	3.800	10	310	21	26	8	0	6
DOĞANÇAY HEPP	5.500	20	0	5	10	100	10	30
ÇALIKOBASI HEPP	4.160	75	120	0	0	30	15	10
ÇİÇEKLİ HEPP -Construction	250	150	0	0	0	0	0	0
ÇİÇEKLİ HEPP -Operation	0	5	0	0	0	0	0	0
SOLENTEGRE SPP and AKFEN RENEWABLE SPP PROJECTS	150	20	0	0	0	2	0	0
YAYSUN SPP	3.000	3	0	0	0	0	0	0
MT SPP	50	2	0	0	0	0	0	0
MESE SPP	3.000	3	0	0	0	0	0	0
OMİCRON ENGIL SPP	4.000	10	0	0	0	0	0	0
OMİCRON ERCİŞ SPP	1.000	3	0	0	0	0	0	0
PSI ENGİL SPP- Construction	2.000	10	0	0	0	0	0	0
PSI ENGİL SPP- Operation	20	2	0	0	0	0	0	0
YEŞİLVADİ SPP	75	2	0	0	0	0	0	0
AMASYA BOYALI SPP	55	3	0	0	0	25	0	0
TOKAT KUÇOTURAĞI SPP	60	5	0	0	0	20	0	0

WASTE TYPE PROJECTS	TOTAL WASTE AMOUNTS IN 2019							
	Domestic Waste (kg)	Mixed Packaging Waste (kg)	Waste Oil/ (kg)	Lead batteries (kg)	Waste Fluorescent (kg)	Contaminated Materials (kg)	Contaminated Packages (kg)	Waste Vegetable Oil (kg)
STORAGE,USAGE AND/OR DISPOSAL METHOD	Given to municipality	Given to municipality	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers	Delivered to the licensed facility by licensed carriers
ÜÇPINAR WPP- Construction	1000	60	70	0	0	100	0	100
KOCALAR WPP- Construction	500	30	0	0	0	0	0	10
DENİZLİ WPP- Construction	250	50	0	0	0	2.550	1.500	0
HASANOBA WPP- Construction	1.000	60	20	0	0	110	0	100
ÜÇPINAR WPP	12	5	0	0	0	0	0	0
KOCALAR WPP	15	2	0	0	0	0	0	0
DENİZLİ WPP	3	3	0	0	0	0	0	0
HASANOBA WPP	5	4	0	0	0	0	0	0
AKFEN HEAD OFFICE	1050	250	0	2	0	0	0	0
TOTAL	**49585**	**1230**	**2480**	**242,5**	**88**	**3148**	**1637**	**374**

Table 25- Total Waste Amount in 2019

Used hazardous chemicals:

Dangerous Material (Name and Number UN / CAS)	Project	Class /Division	Annual Amount (kg)	Maximum Quantity Stored at Site (kg)
Shell Tellus S2 M 32	Çamlıca III HEPP	Operation	100	400
Fuchs Tıtan Gear Hyp 90			20	20
Gravis M320			20	20
Power Oil To1020 60UX			100	600
Shell Tellus S2 M 46			400	1200
Shell Omega 68 Hidrolik Yağ	Gelinkaya HEPP	Operation	350	200
Shell Turbo T46	Çalıkobası HEPP	Generator I	94	70
Shell Morlina S2 B 150		Generator II	140	50
Nynas Nytro Lyra X		Transformer	5260	0
Fuchs Renolin B 32 HVI		Turbine HPU	520	190
Shell Tellus S2 V22		Plug HPU	1275	100
Shell Tellus S2 V 22 Hydrolic Oil	Demirciler HEPP	Operation	250	300
Shell Turbo T 46 Hydrolic Oil		Operation	250	180
Nynas Nytro Lyra		Operation	4398	0
Castrol 15 W 40		Operation	60	0
Shell Turbo T46 Turbine Oil	Sırma HEPP	Operation	1590	800
Nynas Nytroc Transformer Oil		Transformer	3168	2
Shell 15/40 Generator Oil		Generator	13	6
Petrol Ofisi M320		Crane	1	9
VG220 Gear Oil		Stop Log	105	50
No. 90 Oil		Bottom Weir Cleaning Log	6	5
Lukoil No.10 Motor Oil		Compressor	6	6
Shell Turbo 46 Hydrolic Oil	Saraçbendi HEPP	Operation	450	450
Shell Tellus S2 V 46 Hydrolic Oil		Operation	450	450
Shell Turbo T68	Yağmur HEPP	Operation	440	200
Shell Tellus 46		Operation	240	200
Nynas Nytro Lyra X		Transformer	5000	
Castrol 15W 40		Dizel Generator	26	
Shell Omala Oil 680		Crane	30	
Shell Gadus S2 V100C 3		Regulator	180	
Shell Omala S4 Gx 320 Gear Oil	Doğançay HEPP	Operation	500	500
Total Azolla ZS46 Hydrolic Oil		Operation	200	200
Shell Molina SB 150		Operation	200	200
Shell Tellus S2 M 46 Hydrolic Oil		Operation	400	400

Dangerous Material (Name and Number UN / CAS)	Project	Class /Division	Annual Amount (kg)	Maximum Quantity Stored at Site (kg)
Mobil Shc Polyrex 462 Grease		Operation	150	150
Shell Gadus S3V 770d Grease		Operation	60	60
Shell Gadus S2V 220 C Grease		Operation	20	20
Shell Tellus M 68 Hydrolic Oil	Kavakçalı HEPP	Operation	150	150
Shell Tellus Oil 46 Hydrolic Oil		Operation	320	320
Shell Tellus S2 M 32	Otluca HEPP	Governor	800	800
Shell Turbo T 32		Support	500	500
Shell Turbo T 46		Support	800	800
DİESEL	Hasanoba WPP construction	Generator	13.500	2000
Cooling liquid		Turbine	5000	5000
Sika Separol W3 Mould Oil		Mould	120	120
Castrol Grease		Turbine	1000L	1000
Sika Separol W3 Mould Oil	Üçpınar WPP construction	Mould	200	200
Petrol Ofisi Mazot	Denizli WPP	Cars	186000	1500
Shell 15/40 Generator Oil	construction	Construction Machines	4500	1200
Shell Diala S4 ZX-İ	Kocalar WPP	Power Transformer	14000	62000
Shell Diala S4 ZX-İ		Transformer	220	1130
Castrol 15W 40		Dizel Generator 91 KVA	14	14
Shell Diala S4 ZX-İ		Step-Up Operation 1-9	1720	7920
Shell Diala S4 ZX-İ	Üçpınar WPP	Operation 1-2	18000	87500
Shell Diala S4 ZX-İ		Transformer	220	1130
Castrol 15W 40		Dizel Generator 91 KVA	14	14
Shell Diala S4 ZX-İ		Step-Up Transformer 1-33	1720	7920
Shell Diala S4 ZX-İ	Hasanoba WPP	Transformer	18000	87500
Shell Diala S4 ZX-İ		Transformer	220	1130
Castrol 15W 40		Dizel Generator 91 KVA	14	14
Shell Diala S4 ZX-İ		Step-Up Trafoları 3-17	1720	7920
Shell Diala S4 ZX-İ	Denizli WPP	Transformer 1-2	18000	87500
Shell Diala S4 ZX-İ		Transformer	220	1130
Castrol 15W 40		Dizel Generator 91 KVA	14	14
Shell Diala S4 ZX-İ		Step-Up Transformer 1-22	1720	7920

Table 26- Chemicals list used in 2019

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.

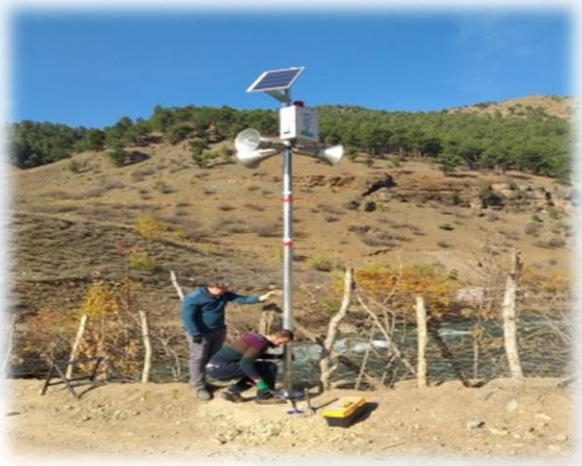
Mitigating measure	Expected or actual date of implementation	Future planned mitigation measures?
"Environmental Safety Protection and Warning Systems Project Files" of all power plants approved by DSI. The applications in the approved files are summarized below; • Surrounders (railing, wire fence, panel, wall etc.) • Warning signs • Illuminated and Audible Early Warning Systems • Camera and sensors • Chain, buoy, stairs, entry-exit ramps for natural life, boat possession	These measurements have been existed. (See Photograph 93)	
There is no need for a new infrastructure or new equipment to be introduced during this period. Stakeholder Engagement Plans (SEP) were prepared.	- All SEP' s were prepared in 2018.	
The Griveance Mechanism implemented within the scope of Akfen Environment and Social Management System covers external complaints as well as internal complaints. Trainings were provided to the local people living in the locations where the operations and constructions are located and complaint and suggestion boxes were placed at the common places. Effective communication was established with the local people in the project sites. Therefore, in case of issues affecting public health and safety, grievance mechanism comes into play.	These measurements have been existed. (See Table 9) Griveance mechanism will be applied.	

Mitigating measure	Expected or actual date of implementation	Future planned mitigation measures?
Off Site Emergency Plans were prepared for all projects (See Annex 14-15). The following topics were examined within the scope of Off-Site Emergency Plans; • Life and Fire Safety •Traffic Safety • Disease / Infectious Disease Prevention • Water Quality and Usability • Assessment of Dust and Noise Exposure in Settlements • Dangerous Material Safety • Emergency Response Trainings were given to personnel about these topics. Emergency communication lists prepared for possible emergencies that may affect public health and safety have been announced in power plants and constructions.	These measurements have bee existed. These plans were prepared for all projects and the studies were made according to these plans.	Off-site emergency drills will be organized with the participation of local people and emergency trainings will be given to local people.
TIKAV project covers villages/neighborhoods in 23 locations with 26 different power plant operations. Within the scope of the project, it is aimed to raise awareness of the body and food hygiene issues necessary for the healthy lives of women living in rural areas and working with body strength. The first phase of the Project, which was started in January 2019, was in January-February-March-April-May; the second period was in September-October-November-December. The project was realized as a single day event at each of the planned locations in the determined months (See Photograph 50-57).	The first phase of the Project was in January-February-March-April-May; the second period was in September-October-November-December. The project was realized as a single day event at each of the planned locations in the determined months.	TİKAV studies will be continued.

Mitigating measure	Expected or actual date of implementation	Future planned mitigation measures?
Public Relations specialist makes meetings with local people to inform them about the project. Importance is given to local employment in operations and construction projects. Regular health checks of the employees are carried out in order to avoid any additional risks related to public health while providing local employment. Employees are subject to periodic health examinations every year to eliminate infectious diseases and disease risks. In addition to physical examination, cardiac radiography, pulmonary function test, audiometry test and whole blood test are also performed. In addition to this, employees of the cafeteria and tea quarry carry out porter examinations every 6 months. Hygiene trainings are provided to employees by workplace doctors in each project.	These measurements have bee existed. These measurements have bee existed.	Public information meeting will be continued. Medical examinations of the personnel will be carried out. Hygiene trainings will also be organized every year or more frequently if necessary.
There are special areas reserved for storing hazardous waste in power plants and trainings (about legislative requirements and best sectoral practice examples) and inspections are carried out on hazardous waste storage.	All operations have temporary waste areas.	

Mitigating measure	Expected or actual date of implementation	Future planned mitigation measures?
Mitigation measures taken at the project sites where construction activities are ongoing: The construction sites are surrounded with wire mesh to prevent unauthorized access. In addition, warning signs are placed and local people and third parties are warned. Site entrances and exits are monitored and recorded for 24 hours by watchers. There are no security guards. The most appropriate routes are selected for site transport roads to minimize potential danger for surrounding settlements, and the speed limit and horn restraint has been introduced for residential areas. In dry seasons, water spray is carried out in order to avoid dust storms in uncovered roads (See Photograph 95). Turkce raporda da mi boyle? Employees are forbidden to move around in the residential areas. Local people are informed in advance in such cases road works, power cuts, material and equipment transportation.	These measurements have been existed Environmental and OHS trainings were continued in 2019 and it was aimed to have an zero-accident year. Constructor implementations and stakeholder complaints will be reviewed in 2019 and necessary improvements will be made. Construction sites are inspected by consulting company. Implementations are controlled to see if there is any deviances from Akfen's ESMS.	

Table 27- Community Health, Safety and Security



Flood Warning System

Warning Sign-Dangerous to Swim

Photograph 93- Warning Sign and Siren for Safety of Community

Photograph 94- MT-YAYSUN SPP Complaint Suggestion Box for Local People

Photograph 95- Image of dust prevention measurement taken at construction site

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

It is considered necessary to carry out the necessary emergency training (especially about floods) and exercises with the participation of the public in HEPPs. Off Site Emergency Plans were prepared for all SPP, WPP and HEPP projects. During this reporting period, and emergency trainings were conducted with social participation in the operations. For example; photographs of traffic and off site trainings arranged for local people in Sırma HEPP, Hasanoba WPP and MT-Yaysun SPP are given in Photograph 96.

MT –YAYSUN SPP Off Sıte Training

Hasanoba WPP Traffıc Safety Training (Golder)

Photograph 96- Off Training for Local People

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

As in previous periods in 2019, private security services are provided in some operations, on the other hand the Company personnel provide security services for rest of them. All security personnel are qualified and certified. It is proved by the medical reports that they are eligible for the job. Security service is provided with unarmed and by shifts. In this reporting period, Security Plans were prepared for theWPP projects that were completed and commissioned during this period. (See Annex 17). Projects started to be procured security service in 2019 are PSI ENGIL 207 SPP, Çiçekli HEPP and all WPP's. During the operation period of these projects, security service is provided with a private security officers with four people teams.

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.

The pasture area where the Firinci SPP which was only in the planning stage in 2019 will be constructed has been changed to public property by changing the pasture qualification within the scope of Pasture Law No. 4342. The Company will receive easement from the Finance for 49 years.

Fırıncı SPP Project	Number of Parcels	Hectare	Land Acquisition% total area
Total area expropriated during the reporting period	2	19,7	100
Total area of affected agricultural land	-	-	-

Table 28- Land Acquisition

DISPLACEMENT INDICATORS

There is not any affected individual since there was no occupier in the treasury lands which are expropriated in 2019.

	Total land (ha)	Total family / business	Total individual	Re-placed / restored to-date	Pending	Comments
1. Physically displaced	-	-	-	-	-	-
Official title holders	-	-	-	-	-	-
Unofficial Slum Residents	-	-	-	-	-	-
Tenants	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-
2. Economically displaced	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
3. Physically and Economically (Both) displaced	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

Table 29- 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.

No land acquisition was made through expropriation in 2019 except pasture lands were changed to treasury lands.

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.

* It is preferred that all SPP Project sites are built on areas that have lost their pasture quality or not suitable for agriculture. 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.

*The fields where dry farming is done and approvement was taken from administration to make an SPP Project are selected. When the real estate lands are unavoidable, it is preferable to purchase voluntarily without expropriation.

* 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 TEDAŞ / TEİAŞ.

*As far as WPP project are conserned, attention is paid for site selection. Bacuse of the nature of this 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.

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.

No disputes have been brought to court due to land acquisition during this reporting period and there is not any written complaints reported to Company also.

Complaint / Date of dispute	Complainant	Problem	Solved (Y/N)	Action taken	Closing date
-	-	-	-	-	-

Table 30- Disputes about Land Acqusition

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.

New project has not been developed in this period. However, monitoring studies and biodiversity studies were conducted for the existing projects and the reports and short summaries are given in Annex-3.

In order to ensure the sustainability of the natural life, HEPP projects in operation have a fish passage. In the Çamlıca III HEPP project, fish transport is carried out. In this context, with the regulator HEPPs; fish passage, current monitoring station, follow-up of the water which is left to the river for natural life, sufficiency etc. controls were carried out. The report containing the information about fish transport study is given in Annex-4. The images related to fish transport in Çamlıca III HEPP are given in Photograph 97-98.

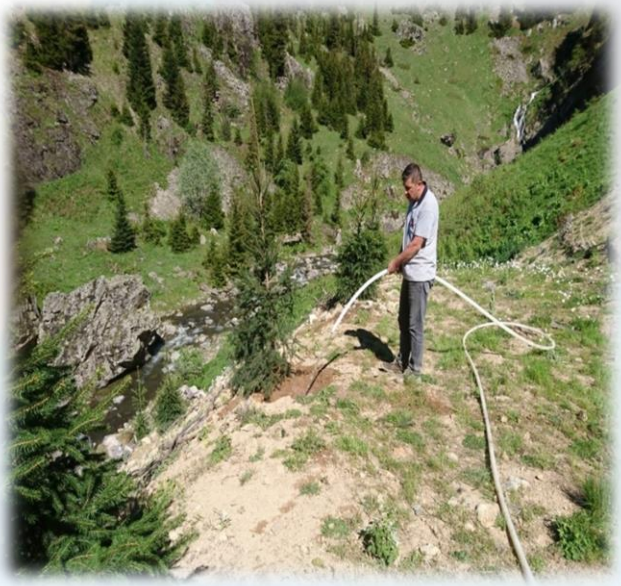
The release of sufficient amount of ecological flow (life water) in HEPPs is also a matter of importance by the Company. The flow monitoring of the life water is continuously controlled by the Current Monitoring Stations.

Landscaping and afforestation works were carried out in HEPP and SEP operations. Sample images of these studies are given in Photograph 99-100-101.

Necessary rehabilitation and landscape works will be carried out in all WPP enterprises in spring next year.

Photograph 97- Landscaping Studies in Van SPP Operations

Doruk HEPP



Doruk HEPP **Çalıkobası HEPP**

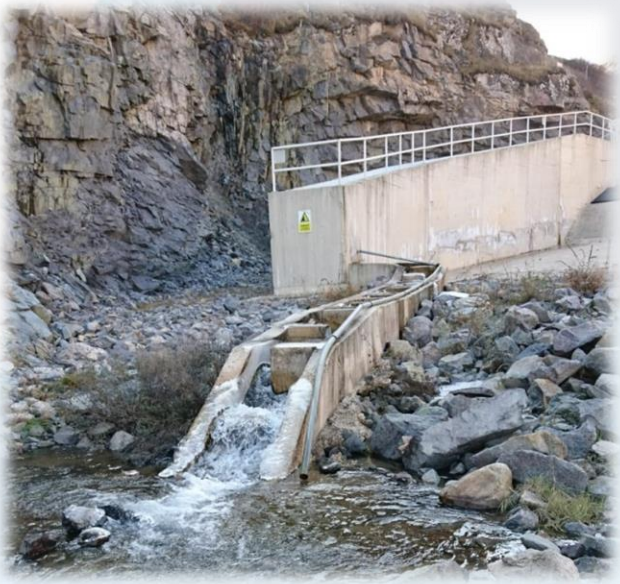
Photograph 98- Landscaping and Afforestation Studies

Çalıkobası HEPP

Çiçekli HEPP

Photograph 99- Sample Fish Passage and Current Monitoring Station

Doğançay HEPP



Doruk HEPP

Kavakçalı HEPP

Photograph 100- Sample Fish Passage and Current Monitoring Station

Otluca HEPP

Saraçbendi HEPP

Photograph 101- Sample Fish Passage and Current Monitoring Station

In the power plants where the channel structures and the water are transferred to the power plant, there are transition structures so that the transmission channel does not interfere with the passage of fauna. Images of these operations are given in Photograph 102. Thus, wild animals can move between both sides to meet water and food needs.

Doruk HEPP Penstock Fauna Transitions

Demirciler HEPP Transmission Cannal Fauna Transition Structure

Saraçbendi HEPP Transmission Cannal Fauna Transition Structure

Photograph 102- Examples of Fauna Transition

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
-	-	-	-	-	-

Table 31- 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 eco-system. Both in spring and autumn seasons of 2019 fish transportation study was done. A 'Fish Catching, Transportation and Release' report was prepared and given in Annex-4. 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
-	-	-

Table 32- 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
-	-	-	-

Table 33- Cultural Assets

No evidence of any cultural heritage in our projects had been encountered. Trainings were given to personnel on cultural heritage in WPP and SPP constructions and SPP operations.

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.

Is new investment in development prosess? ☒Yes ☐ No

Project and Location	Brief Explanation
Osmaniye	**Demirciler WPP-Sarıtepe WPP Projects included in the evaluation;** Acquisition process negotiations with Zorlu Energy Co. INC. are continuing for Demiriler (23,3 MW) and Sarıtepe (57 MW) WPP projects which are called as Project Taurus in the Bahce District of OSMANİYE Province. In this context, ESDD was made by Golder and in case of transfer process, all necessary actions will be taken within the scope of ESAP.

❖ **Hasanoba WPP Turbines Relocation**

15 turbines were commissioned within the scope of Hasanoba WPP project. At the request of the stakeholders, T1 and T2 turbine locations were changed. Administrative permission processes for these new locations are continuing. As of the current situation, a forest permit application has been filed and it is expecting to take permission.

❖ **Capacity Increases of WPP Projects**

The project area has been moved to 250 meters north direction in the scope of Fırıncı SPP Project due to the consolidation project carried out by the administration in the project area. Administrative permission processes for the new area are in progress. Decision of EIA Not Required was revised and zoning plan application has been made in the current situation. Construction works are expected to start within 2-3 months.

❖ **Firinci SPP Project that permission processes in progress**

Applications for capacity increase for 95 MW related to existing wind projects were evaluated by TEİAŞ and General Directorate of Energy Affairs, 85 MW were found positive and reported to Energy Market Regulatory Authority (EPDK). EPDK board decision of total 60 MW for Kocalar, Denizli and Üçpınar WPP projects has been issued and official permission process has been started. EPDK board decision is expected in the Hasanoba WPP project

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
ÇİÇEKLİ HEPP	In this period the construction was completed and taken into operation.	Environmental risks and measures to be taken during the construction phase, which are mentioned in the EIA Report of the project, were monitored by the consultant company (See Annex-8). National waste management is applied in compliance with the legislation. The boundaries of the construction site was closed and a sufficient number of warning signs were placed. During the transportation of materials speed restrictions and klaxon bans have been introduced for vehicles so as not to harm the surrounding settlements. Roads were irrigated to prevent dust formation in dry seasons. A Traffic Management Plan and Off Site Emergency Action Plan have been prepared for the project.
PSI ENGIL 207 SPP	In this period the construction was completed and taken into operation.	Environmental risks and measures to be taken during the construction phase, which are mentioned in the PIF Report of the project, were monitored once in a week by the consultant company (See Annex-8). National waste management is applied in compliance with the legislation. The boundaries of the construction site was closed and a sufficient number of warning signs were placed. During the transportation of materials speed restrictions and klaxon bans have been introduced for vehicles so as not to harm the surrounding settlements. Roads were irrigated to prevent dust formation in dry seasons. Public information meeting was held. Social work was carried out with the contractor through Akfen head office. Social support was provided to local people (See Table-8) A Traffic Management Plan, Enviornmental and Social Management Plan and Off Site Emergency Action Plan have been prepared for the project.

Project	Situation (Ex: during construction, completed)	Significant risk management measures have been taken
HASANOBA WPP	In this period the construction was completed and taken into operation.	Environmental risks and measures to be taken during the construction phase, which are mentioned in the EIA Report of the project, were monitored by the consultant company (See Annex-8). National waste management is applied in compliance with the legislation. The boundaries of the construction site was closed and a sufficient number of warning signs were placed. During the transportation of materials speed restrictions and klaxon bans have been introduced for vehicles so as not to harm the surrounding settlements. Roads were irrigated to prevent dust formation in dry seasons. Third eye environmental and OHS audits were carried out at the construction site and ve activities were checked for compliance with national legislation, IFC and EBRD standards and best practices. A Traffic Management Plan, Enviornmental and Social Management Plan and Off Site Emergency Action Plan have been prepared for the project. 15 turbines were commissioned within the scope of Hasanoba WPP project. At the request of the stakeholders, T1 and T2 turbine locations were changed. Administrative permission processes for these new locations are continuing. As of the current situation, a forest permit application has been filed and it is expecting to take permission. The demand for 25 MWm / 25 MWe installed power increase for Hasanoba WPP was approved by TEİAŞ and General Directorate of Energy Affairs. It will be submitted to the EPDK for approval after the zoning plans of the remaining 2 poles are approved. 57,8 MWm / 51 MWe installed power will be 82,8 MWm / 76 MWe after approval of EPDK.
KOCALAR WPP	In this period the construction was completed and taken into operation.	Environmental risks and measures to be taken during the construction phase, which are mentioned in the EIA Report of the project, were monitored by the consultant company (See Annex-8). National waste management is applied in compliance with the legislation. The boundaries of the construction site was closed and a sufficient number of warning signs were placed. During the transportation of materials speed restrictions and klaxon bans have been introduced for vehicles so as not to harm the surrounding settlements. Roads were irrigated to prevent dust formation in dry seasons. Third eye environmental and OHS audits were carried out at the construction site and ve activities were checked for compliance with national legislation, IFC and EBRD standards and best practices. A Traffic Management Plan, Enviornmental and Social Management Plan and Off Site Emergency Action Plan have been prepared for the project. 25 MW capacity increase was approved for Kocalar WPP. 30,6MWm / 26 MWe project capacity will be 55,6 MWm / 51 MWe.

Project	Situation (Ex: during construction, completed)	Significant risk management measures have been taken
ÜÇPINAR WPP	In this period the construction was completed and taken into operation.	Environmental risks and measures to be taken during the construction phase, which are mentioned in the EIA Report of the project, were monitored by the consultant company (See Annex-8). National waste management is applied in compliance with the legislation. The boundaries of the construction site was closed and a sufficient number of warning signs were placed. During the transportation of materials speed restrictions and klaxon bans have been introduced for vehicles so as not to harm the surrounding settlements. Roads were irrigated to prevent dust formation in dry seasons. Third eye environmental and OHS audits were carried out at the construction site and ve activities were checked for compliance with national legislation, IFC and EBRD standards and best practices. A Traffic Management Plan, Enviornmental and Social Management Plan and Off Site Emergency Action Plan have been prepared for the project. 10 MW capacity increase was approved for Üçpınar WPP. 112,2 MWm / 99 Mwe project capacity will be 122,2 MWm / 109MWe .
DENİZLİ WPP	In this period the construction was completed and taken into operation.	Environmental risks and measures to be taken during the construction phase, which are mentioned in the EIA Report of the project, were monitored by the consultant company (See Annex-8). National waste management is applied in compliance with the legislation. The boundaries of the construction site was closed and a sufficient number of warning signs were placed. During the transportation of materials speed restrictions and klaxon bans have been introduced for vehicles so as not to harm the surrounding settlements. Roads were irrigated to prevent dust formation in dry seasons. Third eye environmental and OHS audits were carried out at the construction site and ve activities were checked for compliance with national legislation, IFC and EBRD standards and best practices. A Traffic Management Plan, Enviornmental and Social Management Plan and Off Site Emergency Action Plan have been prepared for the project. 25 MW capacity increase was approved for Denizli WPP. 74,8 MWm / 66 Mwe project capacity will be 99,8 MWm/ 91 Mwe.

Figure 22- Projects Completed or Under Construction 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.

A new project has not been developed in this period. Therefore, before development selection-election study has not taken place.

Acquisition process negotiations with Zorlu Energy Co. INC. are continuing for Demiriler(23,3 MW) and Sarıtepe (57 MW) WPP projects which are called as Project Taurus in the Bahce District of OSMANİYE Province.

In this context, ESDD was made by Golder and in case of transfer process, all necessary actions will be taken within the scope of ESAP.

Project	Check if PS is valid							Summary of Management Measures	Official ESIA prepared?
	PS 2	PS 3	PS 4	PS5	PS6	PS7	PS8		
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

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	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 . Attain certification to ISO 14001, OHSAS 18001and ISO 50001.	2018	31.12.2018	Developing an implementation plan in 2016 Corporate certification by 2018		ISO 9001 Quality Management System and ISO 14001 Environmental Management System cerficates were obtained on 24/01/2017. OHSAS 18001 Occupational Health and Safety Management System and ISO 50001 Energy Management System cerficates were obtained on 01/02/2017. Quality system implementation are going on at plants and head office and necessary revision were done. ICIM conducted an interim audit for four management systems. The audit conducted by ICIM was carried out at the Company Head Office and later at the operations. The certificates were updated on 02.10.2019. Quality system certificates are given in Figure 1-8.
4	1.2	As a part of EHS management system, nominate and maintain an EHS manager at corporate level. 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	December 2016		Summarize HSSE Organisation chart in annual report		Mr. Hakan BOZKURT has been appointed as the Director of Environment and Occupational Health and Safety at the institutional level for the management of environmental, social, occupational health and safety issues. He has been working at the same position for 4 years. In Annual Report Section - PS1/PK1 :1, an organization chart of Akfen's social, environmental and OHS issues is given. Complaints from stakeholders, NGOs, local communities and 3rd parties will be sent to the Environment and OHS Director by following the sequence indicated in the organizational chart. EIA reports and other related documents of new investments were evaluated before investment decision were taken. Reqirements of EIA reports of operating plants were fulfilled by necessary monitoring and audits.

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
	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 developed. 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).	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 for dam safety. DOĞANÇAY HEPP and Çamlıca III HEPP 23.11.2019 and 14.11.2019 respectively. The ICOLD audit report is given in Annex-10. The 87th Annual Meeting of the International Commission on Large Dams (ICOLD) held in Ottawa, Canada between 09-14 June 2019 DSI Deputy General Director Oğuz Kasap was participated to this meeting on behalf of the Turkish National Committee. In studies conducted and decisions were put contributions on behalf of Turkey in line with DSI and the Turkish National Committee on Large Dams (TRCOLD) experience by attending the ICOLD Technical Committee Meetings on Dam Safety, Concrete Dams and Fill Dams held during the 87th ICOLD Annual Meeting lasting 1 week, ICOLD European Club Meeting, International ICOLD Symposium on “Sustainable and Safe Dams in the World” and ICOLD General Meeting. Within the scope of TRCOLD works, safety of dams, design criteria, seismology, materials, environment, construction methods, performance monitoring, sedimentation, hydraulic, flood design, waste dams and so on. topics are covered. For this reason, DSI has requested from AKFEN to be prepared “The Environmental Protection, Security and Warning Systems Guideline for Energy Purposed Facilities” for Doğançay HEPP and Çamlıca Dam and HEPP, which are covered by ICOLD. The necessary technical studies were conducted and the guide was submitted to DSI and approved by the institution.

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
	1.4	Develop and implement a Corporate and Social Responsibility (CSR) Policy for the Company. Create synergies with Akfen Group Foundation social investment activities. This programme should contain high quality information on objectives, methodologies, target dates and Key Performance Indicators (KPI) same as corporate requirements. Develop a programme for community engagement for each plant. Prioritise the most vulnerable and affected communities in CSR projects. Publish CSR report, as part of disclosure of non financial information every year	The first report was prepared for 2017. In 2018, TİKAV Report was published on the website		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	"Hygiene Equals Health Project" will start in 2019 by TIKAV. TIKAV project covers villages/neighborhoods in 23 locations with 26 different power plant operations. Within the scope of the project, it is aimed to raise awareness of the body and food hygiene issues necessary for the healthy lives of women living in rural areas and working with body strength. The first phase of the Project, which was started in January 2019, was in January-February-March-April-May; the second period was in September-October-November-December. The project was realized as a single day event at each of the planned locations in the determined months.
	1.5	Review and check the labour conditions of long term (>1 year) subcontractor companies proving 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 Çiçekli HEPP , Hasanoba WPP, Üçpınar WPP, Denizli WPP and PSI ENGIL 207 WPP with less than 1 year construction. The construction of these projects was completed in 2019. Within the scope of the ESMS, all construction sites were inspected by environmental engineers and OHS experts. During the audits "Site Environment and OHS Audit Forms" included in the ESMS were used. These forms are prepared to questioning the application of the requirements of national legislation and IFC-EBRD standards. Audit reports are given in Appendix-8.

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
	1.6	Development of an Energy Saving Programme and conduct energy efficiency audits at each power plant. This should be undertaking 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 in operation. Energy efficiency studies made at Dogancay HEPP is given in Annex-13 as a sample study. 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 2019, it was aimed to change the usage 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. In this context, each power plant was checked by internal audits once a year as stated in Environmental & Soxial Management Systen. If there are deviations from the target, necessary corrective actions or new actions to achieve the targets set were determined. An off-grid electricity system was mounted at Akfen Head Office building which generates electricity for external lighting of the building. This will cause a considerable decrease in electricity consumption. Net amount can be seen when consumptions of 2018 and 2019 was compared. During the construction phase of PSI Engil SPP, which was completed in 2019, the required energy was supplied from the Off Grid system. During the operation phase, electricity need is met with the Off Grid system.

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
	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 acitivities only.	2015-18			This action will be on the agreement but will not be disclosed on IFC project data base	Employees and staff at the plants were trained (see Annex 1 Training Records) to protect their health, sefety and environment. They are also provided PPEs in accordance with the work they were doing and explained the necessity and importance of using it in trainings. In addition, specific trainings are delivered to all personnel who need to use special PPE, such as electricians, and special PPEs are delivered. Personnel are highly aware of using PPE. The Lost Time Injury Rate (LTIR) for 2018 and the Total Recorded Incident Ratio are calculated as follows: LTIR =0.47 TRIR = 0.66 Calculations are given in Annex-16.
3	1.9	Develop a procedure of independent impact assessment (EIA) on environment, biodiversity and local communities as well as cultural heritage for all new investments. This will include appropriate biodiversity assessments for birds and bats - and aquatic surveys (fish etc). Design mitigation measure for each Project.	2016(prosecure will be develop with in the first 6 months of 2016) onwards		Summary of work undertaken in annual report and copy of NTS or link to web site with NTS in annual report. 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.	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	The procedure to be followed in order to evaluate the environmental, biological diversity, geographical features and cultural heritage characteristics of a new investment area to be made by Akfen is described in Section 3.1.2 of the Environmental and Social Management System document. There were no new investments in 2019. However, we have paid attention to conduct our existing investments in a manner that protects the social and natural environment and within the framework of sustainable development principles during the operation and construction process. Monitoring and biodivercity reports were prepared according to national legislations (See Annex-3)

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
		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.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 "A" kind, category, EBRD and IFC will approve the Project					Non-Technical Summaries and Stakeholder Participation Plans were prepared for each project and announced to the public at Akfen web site www.akfenren.com.tr
	1.10	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. 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.	2015 ongoing		Annual report to the Bank	This action will be on the agreement but will not be disclosed on IFC project data base	Environmental and socisl due diligence reports, Biodiversity Assessment Reports, monitoring reports and fish cacthing, transportation and release reports were prepared in 2019 as given in Table 11. Reports and their brief summaries are given in Annex- 3,4 and 8.

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
		No wind farm or hydro plant will be located on a Cultural Heritage site, or in a locally, nationally or internationally recognized protected area. 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 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.					
	1.11	The Company will not develop any new project that is located within an existing or potentially protected areas based on the screening areas. 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	Ongoing		Appropriate assessment of sites and , avoidance of sensitive locations.		Projects are not developed in protected areas.

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
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.05 Human Resources Procedure was established within the scope of ISO 9001 Quality Management System. 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 employement, health problems etc. are explained. How to provide and evaluate employee surveys, proposals, objections and complaints, personnel communication rules developed in line with the hierarchical structure, and internal discipline rules have been defined. In 2019 personnel performans evalution 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. Procedures for monitoring and controlling subcontractor personnel are defined under the P10 Health and Safety Procedure and refer to this procedure in subcontracting contracts. The registration and evaluation of complaints of staff, stakeholders and third parties was done according to P03 Internal External Communication Procedure. Social facilities provided to workers at construction sites were audited. Legislative requirements were controlled during site inspections (See Annex -8).

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
9	2.2	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) Approach to managing its workforce Management of worker relationships Access to worker's organisations Working conditions and terms of employment Child labour and forced labour policies Equal opportunities and non-discrimination Oversight provided of contractor policies/procedures	End of 2017		Written HR policies compliant with EBRD PR2 / IFC PS2 and the national Labour Law HR policy developed and adopted: prior to further construction activities. Contractor policies/ procedures reviewed/ approved: prior to work on-site. HR Policies implemented throughout construction and operation.		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. Procedures for monitoring and controlling subcontractor personnel are defined under the P10 Health and Safety Procedure and it is refered in subcontracting contracts. In addition, the Contractor is required to prepare an 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-8).
	2.3	Set up and maintain a formal grievance mechanism for employees and contractors and disseminate information about its uses to the workforce	Prior to construction In Annual report Summarize material issues to EBRD		Adoption of formal grievance mechanism detailed in the SEP	This action will be on the agreement but will not be disclosed on IFC project data base	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. There is also a complaint form on the Akfen web page (www.akfenenren.com.tr) that stakeholders can make complaints about the project. Stakeholder complaints in 2018 are given in Table 9.

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
							In this reporting period, it is observed that the grievance mechanism is operated correctly by both stakeholders and employees. As can be seen in Table 9, grievance records have been established on various subjects in operations and projects under construction. Main complaints are; food, work clothes, deformed hand tools, road improvement, dust formation etc. These complaints were realted to seasonal effcts and necessary actions were taken for solution.
	2.4	Arrangements should be in place for construction workers so that they should have access to welfare facilities such as drinking 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)	At the time of the construction activities commencing		Report should be submitted to EBRD/IFC-detailing arrangements to be put in place for construction workers At the time of the commencement of construction.	This action will be on the agreement but will not be disclosed on IFC project data base	During site inspections, workers' drinking water, toilet access, dining hall, accommodation and other social facilities are inspected and questioned (See. Annex-8). Drinking water analysis were done. Social facilities, dormitories are regularly disinfection against pests. Social facilities, toilets, bathrooms, kitchens and dormitories are cleaned regularly and cleanings are recorded by means of cleaning control forms.
	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	When the construction of the Çiçekli HEPP, PSI Engil 207, Hasanoba WPP, Kocalar WPP, Üçpınar WPP and Denizli WPP projects which are commmissioned during the reporting period were proceeding, the working conditions of the workers and other social opportunities provided to them were audited through internal and external audits (See Annex-8). The construction sites of WPP projects were inspected by the consultant company every 15 days, PSI Engıl SPP construction were inspected every week. All constructions were inspected by Akfen Head Office montly basis. Corrective /preventive actions were determined for every non conformances.

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
	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 construction sites. At each plant Waste Mangement Plans were prepared and approval was obtained according to regulations At each HEPP a contract was signed for waste management and waste was monitored till last disposal point. 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 (See Annex-8).
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?	2018 or following commissioning of a new HEPP.		Report on the findings of the assessment to EBRD/IFC by end of 2018 to be discussed by the KEY shareholders internal		HEPP 's ecological flows are recorded and monitored online by the existing observation stations. In order to ensure the continuity of plant and animal species and the sustainability of the ecosystem, monthly flow amounts determined by the Ministry of Agriculture and Forestry are left to the river bed. Eco-flow records were submitted to regional directorates of the Ministry twice in a year. Amount of eco-flow is determined by wetted perimeter method and eco-system assessment reports were prepared by expert firms. Wetted perimeter method is based on measurement of maximum depth of revir and hyrological parameters at a selected section. This method considers the sustainability of aquatic life at river sections where depth and flow rate decrese.

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
		Confirm that the presence and sizing of fish protection grids on the water intakes are appropriate.					At HEPPs both theoretical and site studies showed that observed eco-flow and water quality (dissolved oxygen,temperature, pH, ect) was sufficient for sustainable ecosystem. 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 Cacthing, Transportation and Release' studies were done. This work was done in spring and autumn seasons in 2019 and reports are given in Annex-4.
	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	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. 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 and calculations are given in Annex-9.

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
11	4.1	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): ▪ Job- and task-specific hazard and risk analysis and controls for activities. ▪ Provision of PPE, requirements for use of PPE, and enforcement of PPE use. ▪ 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.) ▪ Develop an accident investigation program. Record incident statistics, including total work hours, serious injuries, lost time, etc. ▪ Develop a medical monitoring program for employees. ▪ Ensure implementation of a work permit system covering both workforce and contractors for dangerous tasks such as confined space. ▪ Establish and implement a "Lock 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.	2016-throughout the lifetime of the projects		Health and safety management plan copies of updated procedures records of internal and external audits		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: •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 Notifications Tracking List • P10-L08 Fire-Fighting Equipment Follow-up Control List •P10-L09 Lightning Rod / Grounding Follow-Up Control List ▪ Log Out Tag Out Procedure These implementations were done in 2019. The reports of the inspections made are given in Annex-8.

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
12	4.2	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.	2016-ongoing		Updated Emergency Response Plan		Emergency Response Plans were prepared for all operations and construction projects. These plans were updated during the legal periods specified in the national legislationWithin the scope of these plans, emergency teams were formed, emergency contact information was prepared and announced and drills were carried out in accordance with their legal periods. Examples of the Emergency Response Plans are given in Annex-11. In addition, Community Health and Safety Plan and Off Site Emergency Plans were prepared for all operations and constructions. Examples of the plans are given in Annex--14-15.
	4.3	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.	2016		Availability of firefighting equipment and fire water	This action will be on the agreement but will not be disclosed on IFC Project data base	Emergency preparedness is explained in OHSAS P.10 Occupational Health And Safety Plant Procedure. Emergency trainings were given and drills were carried out at plants and construction sites (See Annex-1). Each fire extinguisher in working area is numbered and recorded in the layout. Layouts prepared were announced in the common areas and working areas. Periodical maintenance of fire extinguishers were carried out.
14	5.1	Adopt a formal grievance mechanism, enact the Stakeholder Engagement Plan and develop a land acquisition and compensation framework.	2017		Document stakeholder engagement activities to include land acquisition Annual report on stakeholder engagement Provide report to EBRD and IFC with regards to land acquisition framework		Preparation of stakeholder participation plan, land acquisition procedures and greviance mechanism were difeined in ESMS document (given in 2016 AMR) of Akfen. The SEPs of all projects have been completed in the previous years and given in the annual reports. Public information meeting was held in 2019 for PSI Engil 207 SPP Construction. Project information brochures were provided during the meeting. (See Annex-7)

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
	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	Complaint boxes have been prepared and placed in the nearest settlements in a way that is accessible to the public. Mnagers of all operations are in constant contact with the local people. In 2019, all complaints from the local people were dissolved and closed (See Table 9) Akfen conducts visits to local people especially for SPP and WPP operations. Complaint forms are given in Akfen's web site.
	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-18.
13	5.4	Develop a land acquisition and compensation framework for the purchase of land for new projects the framework where possible and to the extend when possible will include associated infrastructure such as powerlines. For each project undertake risk assessment associated infrastructure even if not develop by Akfen. The objectives of the framework should describe how to: 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	End of 2016		Provide report to EBRD and IFC with regards to land acquisition framework		The pasture area where the Firinci SPP which was only in the planning stage in 2019 will be constructed has been changed to public property by changing the pasture qualification within the scope of Pasture Law No. 4342. The Company will receive easement from the Finance for 49 years.

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
	6.1	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.	Prior to construction commencement.		Provide report to EBRD and IFC with regards the material findings of the surveys and measures implemented which will be used internally	This action will be on the agreement but will not be disclosed on IFC project data base	Observations and studies on ornithology, flora and fauna in construction and operation period are continuing (See Table 12,13,14) Planting of Paeonia Mascula Subsp. Boduri Endemic Plant Species Seeds was made in Kocalar WPP and Üçpınar WPP operations. fresh samples of *Cynodon dactylon* (L.) Pers. var. *Dactylon species were collected and removed from the* Denizli WPP *site.* Bat sound monitoring and mouse and turtle detection studies were performed for WPP projects.
	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	Biodiversity assessment reports, action plans, monitoring reports were made for WPPs and SPPs in 2019 given in Table 12,13,14. In addition, the Biodiversity Action Plan prepared is given in Annex-3. Implemantations were done according to action plans.

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
	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 not be disclosed on IFC project data base	Çiçekli HEPP, PSI Engil 207 SPP and all WPP constructions were completed and put into operation in 2019. A measurement program was established to monitor/measure activities specified in the Ecosystem Assessment Report (EAR) during operational stages and to be carried out under national legislation. 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 the State Hydrolic Works Directorate. 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 and external audits every year and external audits will be carried out every 5 years. The camera system is also installed at the request of DSI and CMSs are controlled by camera. Within the scope of the quality system, all power plants at the operation phase are audited annually in compliance with ESMS. In addition, all the power plants and construction sites are audit by the consultant company (See Annex 8).
	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		Compliance with permits and best practice to limit net ecological impact. Information in annual report. To be verified every 5 years by independent audit.	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 water is released in accordance with the project's EAR in which the amount of water ecological flow is determined. For this purpose, a Flow Monitoring Station is located downstream of each HEPP and records are controlled by the State Hydrolics Work Directorate with an online system.

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
1	7.1	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.	End of 2016 training to be implemented as part of EHS management system development		Completed EIA accepted and assessed by national regulator.		EIA procedure is strated for each new project and construction starts after obtaining 'EIA positive' decision. 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. During this period, there was no evidence of cultural heritage on the project sites.
6	10.1	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.	2016-ongoing throughout the lifetime of the projects	31/12/2016	SEP published on website and disclosed to affected stakeholders. Summary of the implementation in Annual reports to EBRD and IFC		The registration and evaluation of grievances from staff and third parties are described in P03 Internal External Communication Procedure. The Stakeholder Engagement Plan for all projects has been prepared in previous years. SEPs and grievance mechanism prepared for Akfen's projects are presented to all stakeholders on the Akfen web page. Prepared SEPs are reviewed annually and necessary revisions are made.

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
7	10.2	Monitor implementation of the SEP and grievance mechanism to ensure a continuous and systematic stakeholder 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.	2016-ongoing throughout the lifetime of the projects		Document stakeholder engagement activities Document grievances, response to grievances with records maintained. Provide summary in Annual report on stakeholder engagement activities and grievances		Stakeholder Engagement Plan has been prepared for all projects. Complaints received in 2019 are presented at Table 9. 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 all projects. In this period brochures were prepared for PSI Engil 207 SEP and given in Annex-7.
	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	During this period public information meeting was held within the scope of PSI Engil 207 SPP construction only and a presentation brochure was prepared (See Annex-7). NTSs of all projects are given in 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 had been appointed as Public Relations Officer at the company headquarters and he is keep going his job in this reporting period too.

Table 34- Updated Action Plan (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 (PS2, PK2)	1. There is no reward-punishment system in operations. Self-determined applications are made in some operation sites. However there is not any standard system applied in whole Company.	An award-penalty procedure will be established covering all operations, construction and Akfen Head Office.		15. 05.2020
IFC/EBRD Performance Standards (PS2, PK2)	2. A security report should be prepared under the roof of Akfen Head Office and this report should include all operations and constructions.	At the beginning of 2020, security plans will be prepared and delivered to construction and operations.		28.02.2020
IFC/EBRD Performance Standards (PS4, PK4)	3. Off Site Emergency Drills were not performed in all operations with the participation of local people.	All operations will perform emergency off-site drills for local people in 2020.		28.06.2020

Table 35- Deviations/Non-Compliances

ANNEXES:

Annex-1	Training Records of 2019
Annex -2	Accident Reports
Annex -3	Environmental and Biodiversity Reports and Instructions
Annex -4	Fish Transporting Reports of Çamlıca III HEPP
Annex -5	Examples of Occupational Hygine Measurement
Annex -6	Environmental Measurement Reports
Annex -7	Presentation Brochures and Public Information Minutes of Meeting (PSI ENGIL)
Annex -8	Environmental, Social and OHS Audit Reports
Annex -9	Greenhouse Gas Emission Calculation
Annex -10	ICOLD Audit Reports
Annex -11	Emergency Response Plan and Community Health and Safety Plan
Annex -12	Examples of Internal and External Complaint Forms
Annex -13	Energy Efficiency Studies
Annex -14	ESMP and HSMP' s for WPP Operations
Annex -15	ESMP and HSMP' s for PSI ENGIL 207 SPP Operation
Annex -16	LTIR-TRIR
Annex -17	Security Plans
Annex -18	Expropriation Current Information for Doruk HEPP
Annex -19	Social compliance auditor certificate of Orkun GÜMÜŞTEKİN who is one of the reporters.