

## Verification Opinion

### GHGEV 669871 – 01.07.2022

**Responsible Party:** Akenerji Elektrik Üretim A.S.  
Miralay Sefik Bey Sk. Akhan No:15 Kat:4  
Gumussuyu  
Istanbul  
34437  
Turkey

**Type of GHG Statement:**  
Organisational

**Identification of GHG Statement:**  
Akenerji Elektrik Üretim A.S. GHG Report 2021

**Scope of activities:**  
Electricity production

**Organisational Boundary:**  
Operational Control

**Sites Included in Organisational Boundary:**  
It contains the data of Akenerji Elektrik Üretim A.Ş.'s Erzin Natural Gas Combined Cycle Power Plant, located at the address of Hatay Province, Erzin District Aşağı Burnaz Mevkii, Latitude: 237604.00 Longitude: 4090973.00

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**Reporting Boundary:**

1- Direct greenhouse gas emissions and removals

- \* GT-1, GT-2, Auxiliary Boiler (Natural gas)
- \* Diesel Generator (Powerhouse) Diesel
- \* Diesel Generator (Switchyard) Diesel
- \* Diesel fire pump (10SGA05AP001) Motorin
- \* Acil durum dizel yangın pompası (10SGA10AP001) Diesel
- \* Rented Company Cars (6 cars) Diesel (1 car) Gasoline
- \* Air condition (R410-A)
- \* SF6 Switchyard
- \* Fire Extinguishers (CO2)
- \* LPG Tüpleri
- \* Acetylene
- \* Gas Detector Tester (Test Gas CH4)
- \* Turbine Generator H2 disposal CO2 Gas
- \* Chromatograph (Chromatograph gas – Natural gas)

2 - Indirect greenhouse gas emissions from imported energy; Electricity Purchased

- \* Electricity

3 - Indirect greenhouse gas emissions from transport;

- \* Employee commuting to and from work
- \* Emissions from visitors and customers to the facility
- \* Business travel
- \* Waste transportation

4 - Indirect greenhouse gas emissions from products used by the organization;

- \* Purchased materials and their transportation
- \* Waste water treatment
- \* Waste disposal

5-Indirect greenhouse gas emissions associated with the use of products from the organization;

- \* Use of electricity sold

6 - Greenhouse gas emissions from other sources

- \* Loss and fugitive emissions from the electricity grid

**Criteria for developing the organisational carbon footprint:**

ISO14064-1:2018

Akenerji Elektrik Üretim A.S. GHG Management System Documentation



**Level of Assurance:**

Reasonable

**Materiality level:**

%7

**Period:**

01.01.2021-31.12.2021

**GHG Emissions:**

<i>DIRECT GREENHOUSE GAS EMISSIONS</i>		
1- Direct GHG emissions and removals;	1.560.163,48	tCO2e
<i>INDIRECT GREENHOUSE GAS EMISSIONS</i>		
2 - Indirect GHG emissions from imported energy;	4.541,32	tCO2e
3 - Indirect GHG emissions from transportation;	252.590,98	tCO2e
4 - Indirect GHG emissions from products used by organization;	1,90	tCO2e
5 -Indirect GHG emissions associated with the use of products from the organization;	1.527.813,21	tCO2e
6 -Indirect GHG emissions from other sources.	1.407,00	tCO2e
<b>TOTAL</b>	<b>3.346.518</b>	tCO2e

Non-Biogenic GHG emission	3.346.460	tCO2e
anthropogenic biogenic GHG emission	-	tCO2e
non-anthropogenic biogenic GHG emission	58	tCO2e

**Verification Opinion: Verified as Satisfactory**

Based on the process and procedures conducted, there is no evidence that the GHG report 2021 produced by Akenerji Elektrik Uretim A.S. not a fair representation of GHG data and information; — has not been prepared in accordance with ISO14064-1:2018

**Verification Activities:**

The following were the verification activities undertaken:

- Evaluation of the monitoring and controls systems through interviewing employees observation & inquiry
- Verification of the data through sampling recalculation, retracing, cross checking, reconciliation

The quantification and reporting of the carbon footprint have been independently verified by BSI against the specifications defined in ISO 14064-1:2018. The verification activity has been carried out in accordance with ISO 14064-3:2019 and the principles of ISO 14065:2020.

**Responsibilities:**

The data on which the footprint is based has been provided by Akenerji Elektrik Uretim A.S. in the document GHG report 2021. This document is the responsibility of Akenerji Elektrik Uretim A.S. and is historical in nature.

The responsible party is responsible for the preparation and fair presentation of the GHG statement in accordance with the criteria.

The verifier is responsible for expressing an opinion on the GHG statement based on the verification

**Lead Verifier:** Mehmet Kumru

**Signed on behalf of BSI:** Yonca akır



**Issue Date:** 06.07.2022

**NOTE:** BSI Eurasia Belgelendirme Hizm. Ltd. Sti. is independent to and has no financial interest in Akenerji Elektrik Uretim A.S. This verification Opinion has been prepared for Akenerji Elektrik Uretim A.S. only for the purposes of verifying its statement relating to its carbon emissions more particularly described in the scope above. It was not prepared for any other purpose. In making this Statement, BSI Eurasia Belgelendirme Hizm. Ltd. Sti. has assumed that all information provided to it by Akenerji Elektrik Uretim A.S. is true, accurate and complete. BSI Eurasia Belgelendirme Hizm. Ltd. Sti. accepts no liability to any third party who places reliance on this Statement.