

Verification Opinion

GHGEV 717410 – 17.06.2022

Responsible Party:

Kazan Soda Elektrik Üretim A.Ş.
Mulk Kume Evleri 1. Cadde No:122 Yenikent
Sincan / Ankara, 06946, Turkey

Type of GHG Statement:
Organisational

Identification of GHG Statement:
Kazan Soda Elektrik Üretim A.Ş. GHG Report 2021

Scope of activities:
Natural Heavy Soda Ash and Sodium Bicarbonate production

Organisational Boundary:
Operational Control

Sites Included in Organisational Boundary:

Within the scope of the Greenhouse Gas Inventory, Kazan Soda Elektrik Üretim A.Ş. has adopted a control approach to combine greenhouse gas emissions and removals. All emissions arising from the activities of Kazan Soda within the boundaries of the facility located in Ankara, Turkey are within the boundaries of the organization.

- Address: Mulk Kume Evleri 1. Cadde No:122 Yenikent Sincan / Ankara, 06946, Turkey

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Reporting Boundary:

1- Direct GHG emissions and removals.

Combustion Welded

- * Soda Ash-Process Emission
- * Natural gas
- * Diesel
- * LPG

Vehicle Sourced

- * Diesel

Sources of Chemicals

- * R410A
 - * R134A
 - * CO2
 - * HFC 236 FA
 - * HFC 227 ea
- 2 - Indirect greenhouse gas emissions from imported energy; Electricity Purchased
- * Electricity

3 - Indirect greenhouse gas emissions from transport.

- * Seaway Product Transportation
- * Road Product Transportation
- * Personnel Services
- * Road Raw Material Transportation
- * Staff Airline Travel

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

- * Network water

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

- * Greenhouse Gas Emissions During Product Use Phase

6 - Greenhouse gas emissions from other sources

- * Staff accommodation
- * Waste
- * Drinking water consumption

Exclusions from Reporting Boundary:

Emissions from the following sources are excluded:

- The data required for the calculation of the emissions related to the removal of Lime and Caustic are not kept. In addition, it is foreseen that the said emissions are not at a significant level,
- It is foreseen that there is no degradation during the product life cycle and no emission as a result of product use, when the products are used in detergent, feed industry and other sectors.

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Criteria for developing the organisational carbon footprint:

ISO14064-1:2018

Kazan Soda Elektrik Üretim A.Ş. GHG Management System Documentation

Level of Assurance:

Limited

Materiality level:

%10

Period:

01.01.2021-31.12.2021

GHG Emissions:

DIRECT GREENHOUSE GAS EMISSIONS		
1- Direct GHG emissions and removals;	1.250.375	tCO ₂ e
INDIRECT GREENHOUSE GAS EMISSIONS		
2 - Indirect GHG emissions from imported energy; Purchased Electricity	26.173	tCO ₂ e
3 - Indirect GHG emissions from transportation;	426.737	tCO ₂ e
4 - Indirect GHG emissions from products used by organization;	128.178	tCO ₂ e
5 -Indirect GHG emissions associated with the use of products from the organization;	56.745	tCO ₂ e
6 -Indirect GHG emissions from other sources.	24	tCO ₂ e
TOTAL	1.888.262	tCO₂e

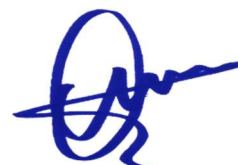
<i>Non-Biogenic GHG emission</i>	<i>1.888.260</i>	
<i>anthropogenic biogenic GHG emission</i>	<i>-</i>	<i>tCO₂e</i>
<i>non-anthropogenic biogenic GHG emission</i>	<i>2</i>	<i>tCO₂e</i>
TOTAL	1.888.262	tCO₂e

Verification Opinion: Verified as Satisfactory

Based on the process and procedures conducted, there is no evidence that the GHG report 2020 produced by Kazan Soda Elektrik Üretim A.Ş.:

- is not materially correct and is not a fair representation of GHG data and information;
- has not been prepared in accordance with ISO14064-1:2018

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Verification Opinion: Verified as Satisfactory

Based on the process and procedures conducted, there is no evidence that the GHG report 2021 produced by Kazan Soda Elektrik Üretim A.Ş.:

- is not materially correct and is 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 Kazan Soda Elektrik Üretim A.Ş. in the document GHG report 2021. This document is the responsibility of Kazan Soda Elektrik Üretim A.Ş. 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: Furkan Sadıkoğlu

Signed on behalf of BSI: Yonca Çakır



Issue Date: 29.06.2022

NOTE: BSI Eurasia Belgelendirme Hizm. Ltd. Sti. is independent to and has no financial interest in Kazan Soda Elektrik Üretim A.Ş. This verification Opinion has been prepared for Kazan Soda Elektrik Üretim A.Ş. 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 Kazan Soda Elektrik Üretim A.Ş. is true, accurate and complete. BSI Eurasia Belgelendirme Hizm. Ltd. Sti. accepts no liability to any third party who places reliance on this Statement.