



GHG EMISSION REPORT - 2023

About Al- Babtain Metalogalva Solar

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Al-Babtain MTG is a joint venture between two key players in the design and manufacturing of Solar PV Steel Structures. With more than 70 years of combined experience in the industry, Al-Babtain MTG is on a mission to tap new sources of energy in the MENA region.

The development and competitiveness of new sources of energy are pushing huge investments worldwide and the MENA region will have an important role to play in it. Apart from all the natural conditions that this region has – with the highest irradiation of sun in the world – local governments are planning to implement and build new energy from this natural resource.

AL-BABTAIN MTG is regarded as a key player in the region. The combination of our experience in the region, production skills, knowledge of the local and international players are the key to our success. Al-Babtain Power & Telecom aims to expand its steel manufacturing activities into the PV trackers and fixed steel components in the MENA region. Metalogalva aims to expand its global footprint in the steel PV market and support the customers in the region.

Together, AL-BABTAIN and Metalogalva are on a mission to be the leader in the MENA region for delivering the most competitive supply and solution in the following:

- PV Tracker Steel Components
- Fixed Steel Structures
- Carports



Al-Babtain's Climate Change Strategy



Energy Conservation strategy

This strategy is intended to reduce the energy consumption and the company actively pursues the following:-

- Control of energy usage / wastage over its operational facilities
- Digitization of Documents and Communication (Email, Intranet, ERP etc)
- Better Planning and Control of Logistics Operation

Energy Efficiency Strategy

This strategy is intended to use less energy for a constant service level thereby reducing overall energy demand and the company actively pursues the following

- Procurement Policy regarding Energy Star Products such as Computers, Office Equipment, HVAC equipment, Energy Efficient Lights etc.
- Periodic Preventive Maintenance Program for Machineries, Utilities, Material Handling Equipment etc. which would help to maintain energy efficiency levels.
- Asset Disposal or Replacement Policy with energy consumption / unit of production as one of the decision factor

Low Carbon / Clean Energy

This strategy is intended to substitute the more carbon intensive fuel with a less carbon intensive one where the scope exists and viability of adoption is perceived to be reasonably high.

- Use of alternate low carbon fuels such as Natural Gas instead of diesel where scope exists.
- Use of Solar powered electricity energy from SEC when it is integrated into the grid.

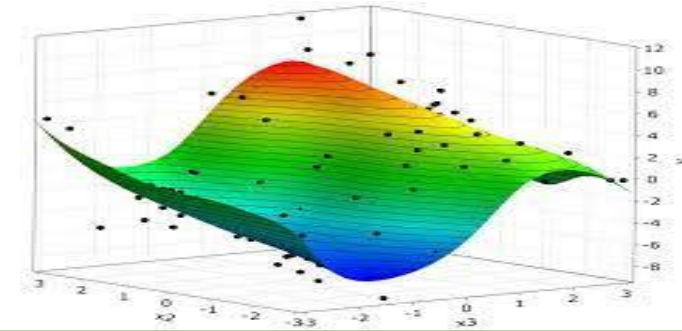
Al-Babtain's Climate Change Strategy – Continued...



Eco Friendly Strategy

This strategy is intended to substitute less eco-friendly materials with more eco-friendly materials that has a comparatively minimal GHG emission. The company plans to pursue the following in the long term:-

- Use of Air Conditioners with refrigerants having low Ozone Depletion Potential and Global Warming Potential among the various models that will be made available in the market



Design Optimization Strategy

This strategy is intended to reduce the material and resources requirements through optimization of design of our products and economic utilization of materials through material planning and economic layouting process which would eliminate the waste and ultimately result in scope 1,2 and scope 3 GHG emission. The company has already been pursuing this strategy in line with its continual improvement process.



Emission Reduction Target :- 25% from base year over a 5 year period (Scope 1 & 2)

Organizational Boundary

Al-Babtain Metalogalva's Approach: -

Control Approach

Our Organizational Boundary is based on the Control Approach of the GHG Accounting Protocol. Under this approach, Operational Control approach is chosen as the basis of the measurement and reporting in which emissions from operations over which the company has operational control is accounted. Due professional care has been exercised to reasonably assure that no double counting in accounting of emission sources and activity

Reporting Protocol Adopted



GREENHOUSE
GAS PROTOCOL

Changes to Organizational Boundary

No changes to Organizational boundary happened during this reporting period.

Reporting Period Covered

2023

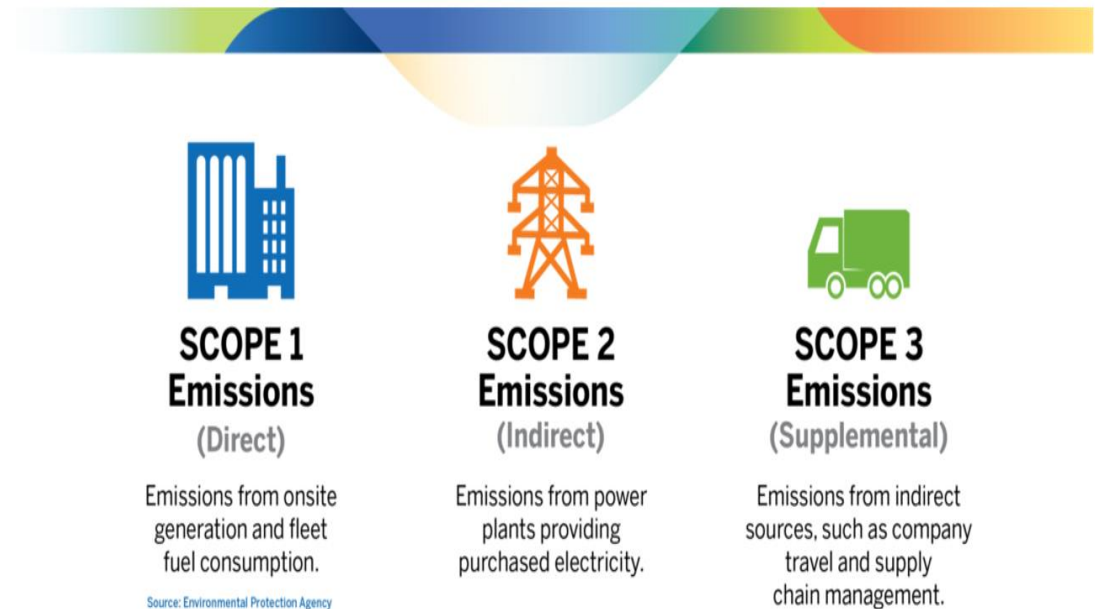
Operational Boundaries

The operational boundaries chosen as per GHG protocol is classified into three scopes namely

Scope 1 Emission :- These are direct GHG emissions from sources that are owned or controlled by the company.

Scope 2 Emission:- These are indirect GHG emissions from the generation of purchased electricity consumed by the company

Scope 3 Emission:- These are indirect GHG emissions that are consequence of the activities of the company, but occur from sources not owned or controlled by the company.



Carbon Footprint

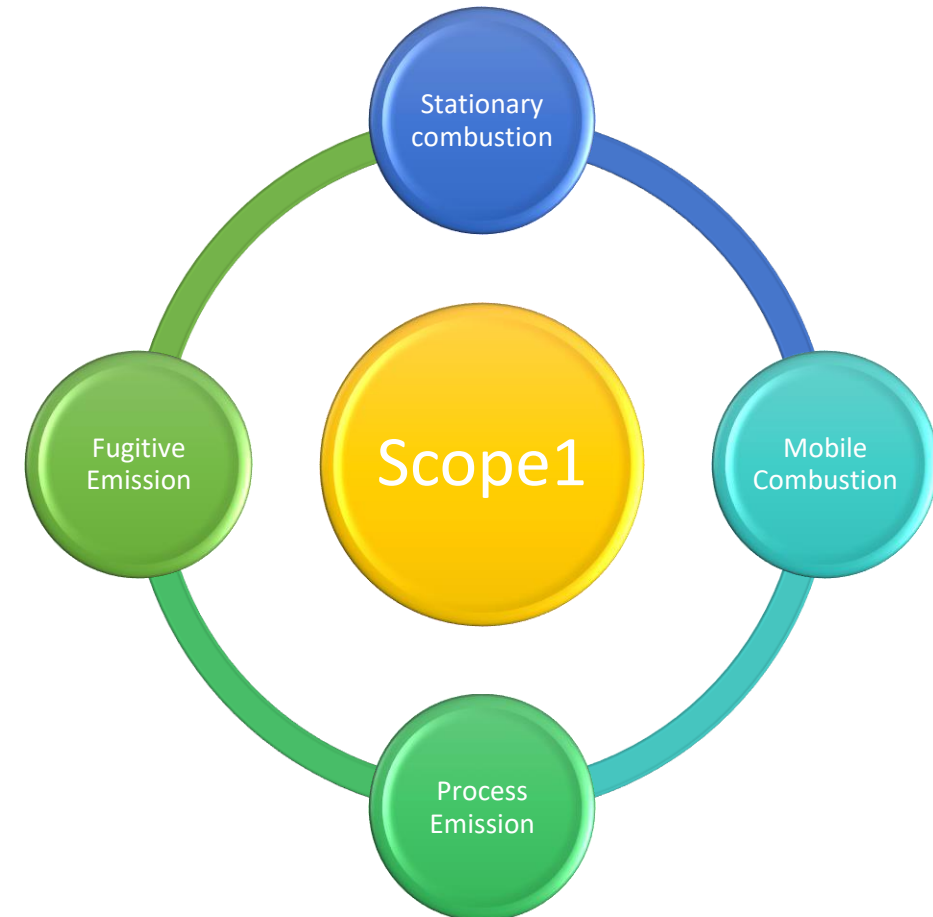


Information on Emissions



Scope 1 Emission:-

- The Scope 1 emission accounted for the reporting period is **209 Tons** and the main sources of this emissions accounted are from Stationary combustion sources, mobile Combustion sources and Process Emission and Fugitive Emission.

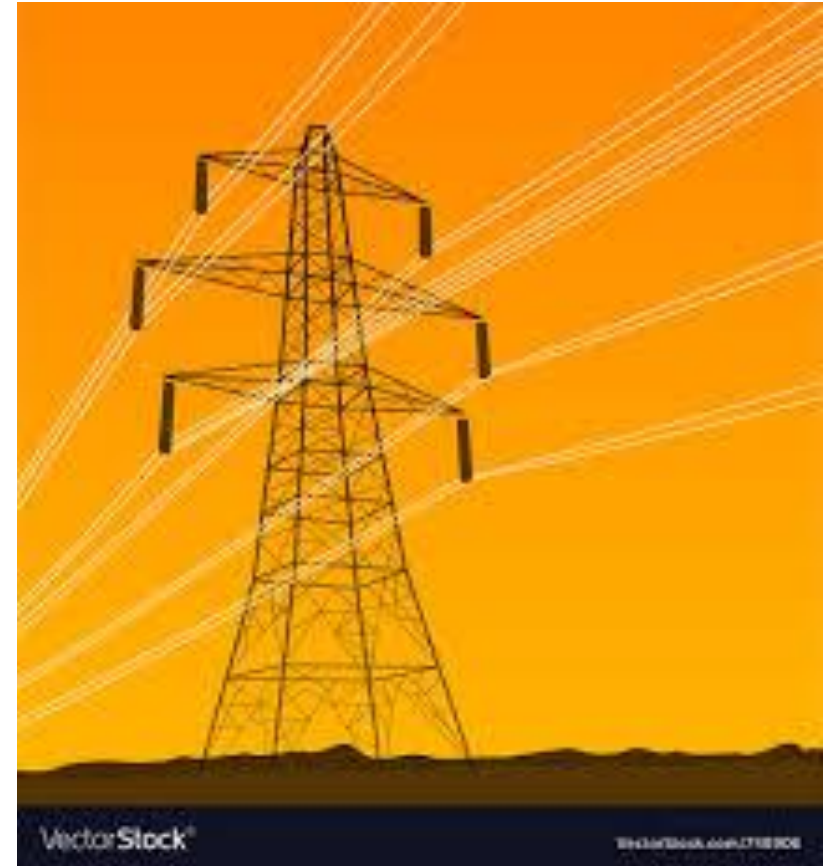


Information on Emissions

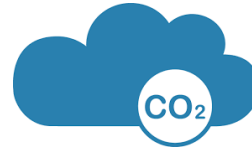


Scope 2 Emission:-

- The Scope 2 emission accounted for the reporting period is **1,433 Tons** and it is from purchased electricity consumed by the company



Information on Emissions

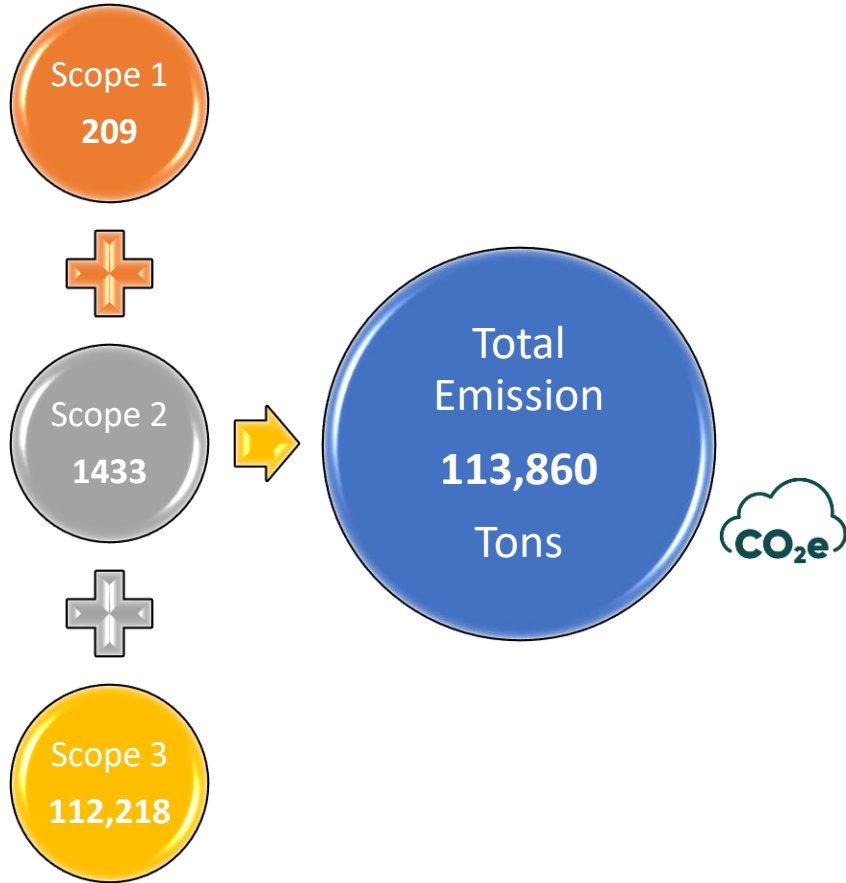


Scope 3 Emission:-

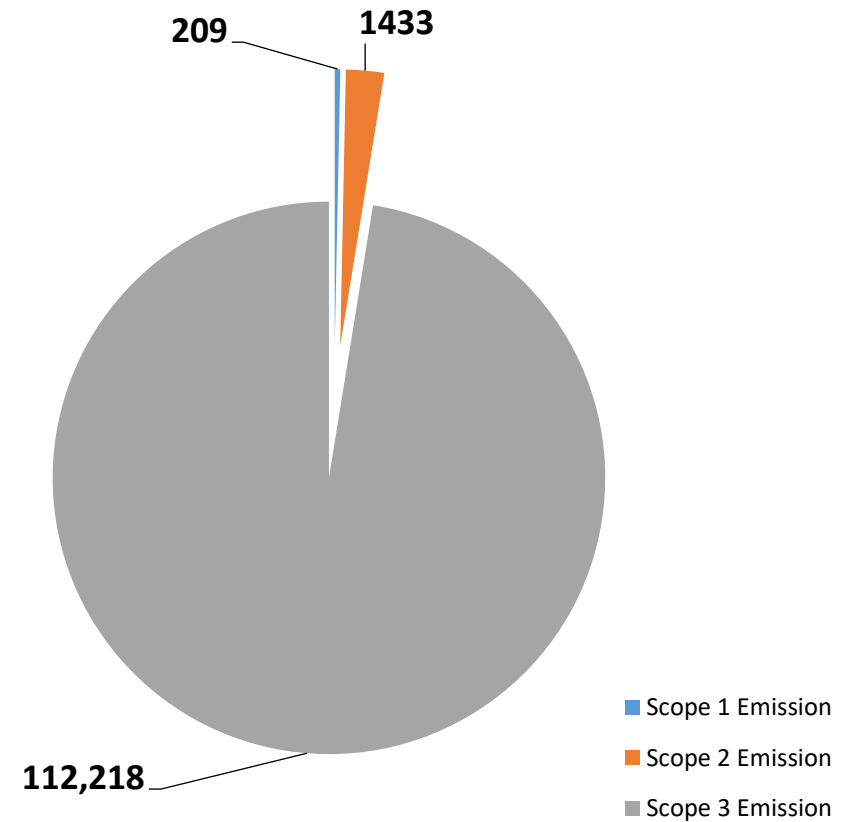
- The Scope 3 emission accounted for the reporting period is **112,218 Tons** and the main sources of this emissions generally accounted are from Purchased Goods and Services, Transport-related activities which includes Upstream, Downstream, Employee business travel, Employees commuting, Leased assets, Waste disposal as applicable.



Total Emission



2023 CO₂e Emission in Tons



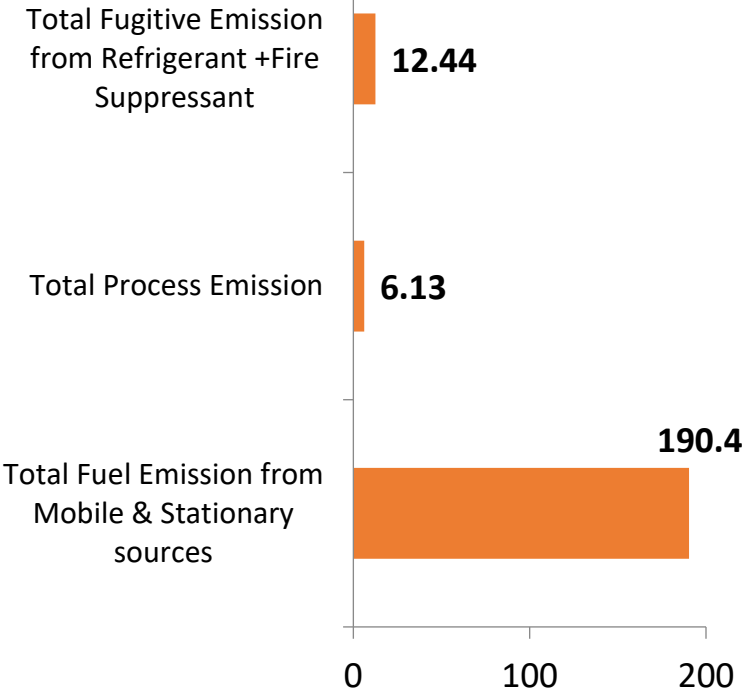
Note:- There are no notable emission of these GHG CH₄, N₂O, HFCs, PFCs, SF₆ as sources of this emissions are not available in the company's operations. Confirmed by Environmental Air Quality Measurements by external NCEC approved Agency..

Detailed emission data by source category for the reporting period 2023

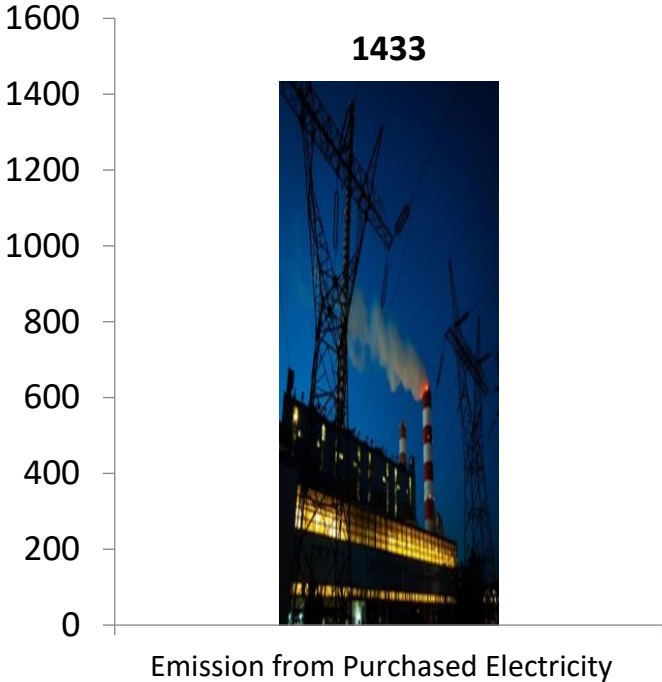
GHG Absolute Emission Summary for Al-Babtain Metalogalva Solar Co.	
Emission Scope & Type	CO2e Emission in Tons
Scope 1 Emission	
Total Fuel Emission from Mobile & Stationary sources	190.4
Total Process Emission	6.13
Total Fugitive Emission from Refrigerant +Fire Suppressant	12.44
Total Scope 1 Emission	209
% of Scope 1 Emission over Total Emission	0.18%
Scope 2 Emission	
Total Scope 2 Emission from Electricity Consumption	1433
% of Scope 2 Emission over Total Emission	1.26%
Scope 3 Emission	
Total Purchsed Goods Emission	110756
Total Transportation Emission from Upstream, Downstream, Business Trip & Employee Commuting	1461.7
Total Scope 3 Emission	112218
% of Scope 3 Emission over Total Emission	98.56%
Grand Total of Scope 1+2 Emission	1642
% of Scope 1+2 Emission over Total Emission	1.44%
Grand Total of Scope 1+2+3 Emission	113860

Detailed emission data by source category for the reporting period 2023

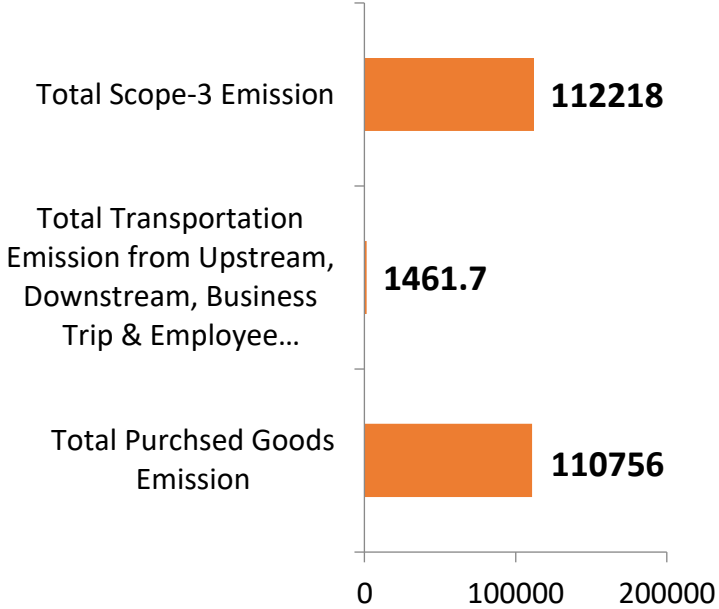
Scope 1. Co2e Emission in Tons



Scope 2. Co2e Emission in Tons



Scope 3. Co2e Emission in Tons

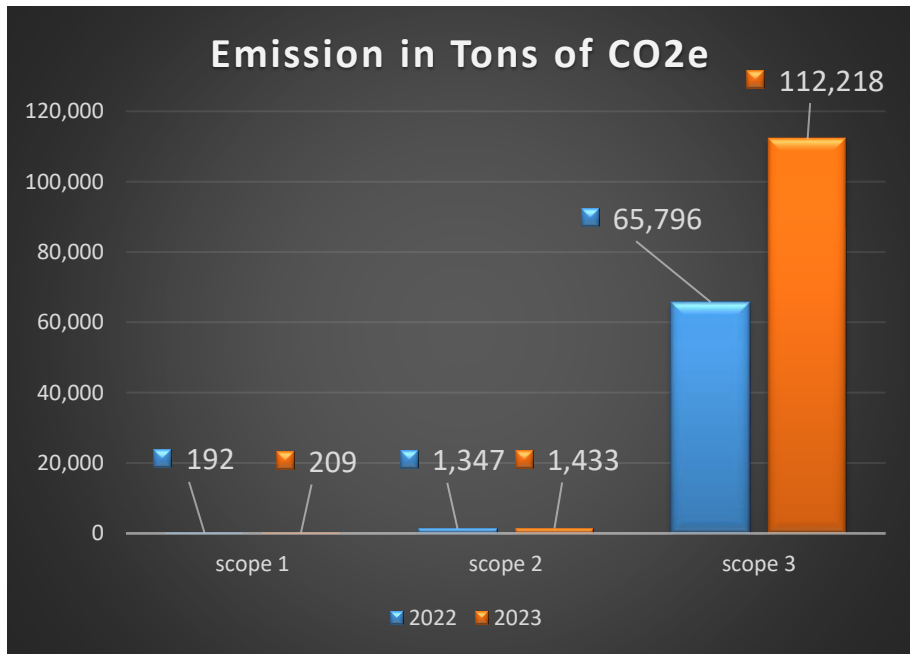


Base year chosen:-

2021

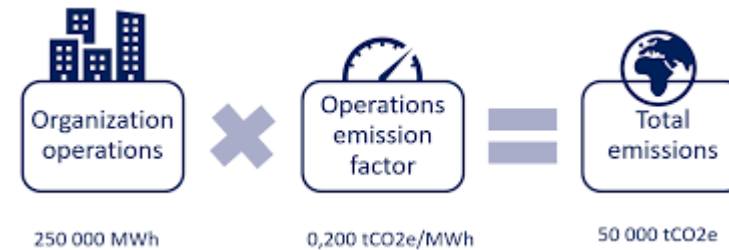
The Base Year chosen for GHG emission reporting is 2021 for which reliable, verifiable emissions data available to set a performance datum.

Comparative statistics of emission over past year:



Methodologies used to calculate or measure emissions:-

The GHG emission calculation approach followed is by the application of documented and published emission factors from reliable sources. The figure below illustrate the methodology.



A reference to the published emission factors used is given :- [click here](#)

An in-house developed calculation spreadsheet is used to calculate emission from the identified scope 1 , scope 2 and scope 3 emission sources by the application of above mentioned conversion factors to get equivalent CO₂ emission.

GHG Emission Ratio Indicators:-

Ratio Indicators:-

The Intensity ratios express GHG impact on per unit of economic output and it reflects the normalized environmental impact data. The relevant intensity ratios that are measured are Product Emission Intensity ratio and Sales Emission Intensity and it relates to Scope 1 and Scope 2 emission.

Product Intensity Ratio (Production based)

CO2 e emission per Ton



28.4 Kg /
Ton

Sales Intensity Ratio (Revenue based)

CO2 e emission per Saudi Riyal revenue

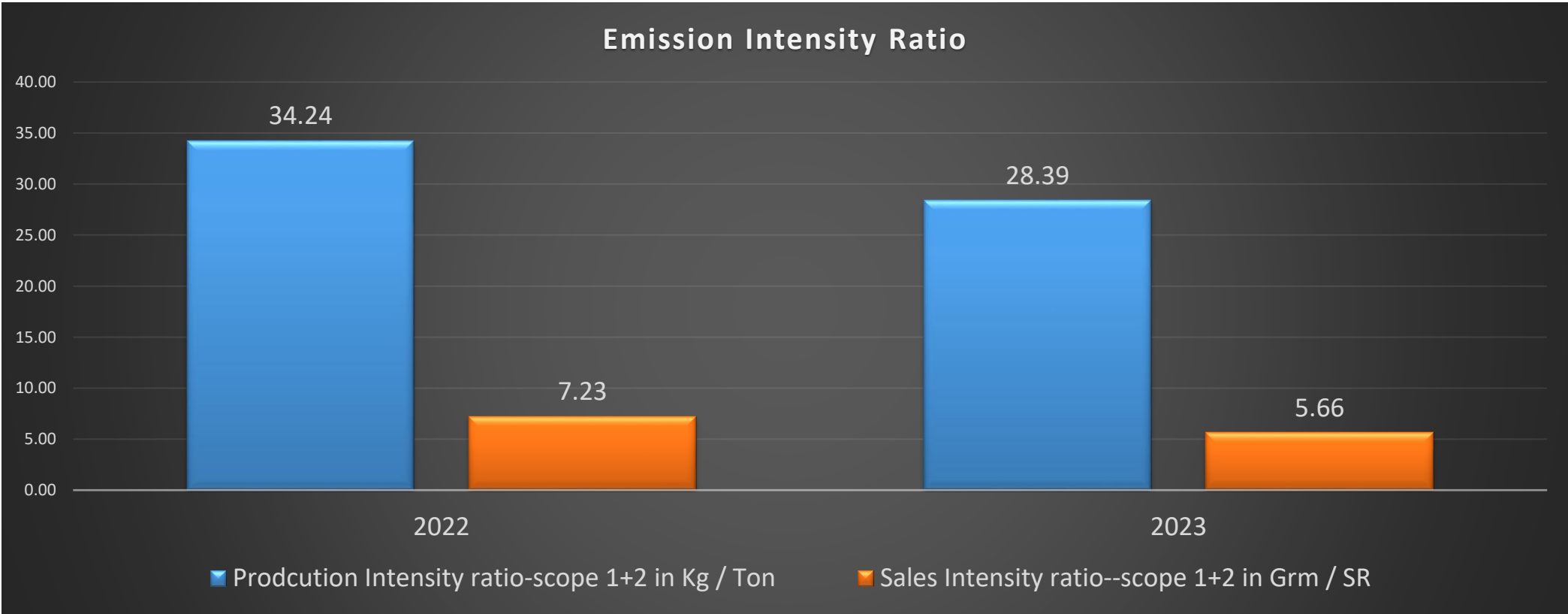


5.66 gm /
Saudi Riyal

Exclusion of Emission Sources:-

None during this reporting period.

Comparative statistics of emission intensity ratio:





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