



GB AUTO CFP 2020.21

**CARBON FOOTPRINT REPORT
2020.21**



I. ABOUT THIS REPORT

This report details the greenhouse gas emissions generated by GB Auto's internal operations at its owned facilities in the years 2020 and 2021. As it's the first time to report the emissions, the year of 2020 is considered as the base year which is the reference year for all upcoming emission calculations.

All the data collected and analyzed within this report follow the World Resources Institute Greenhouse Gas Protocol principles of relevance, completeness, consistency, transparency, and accuracy.





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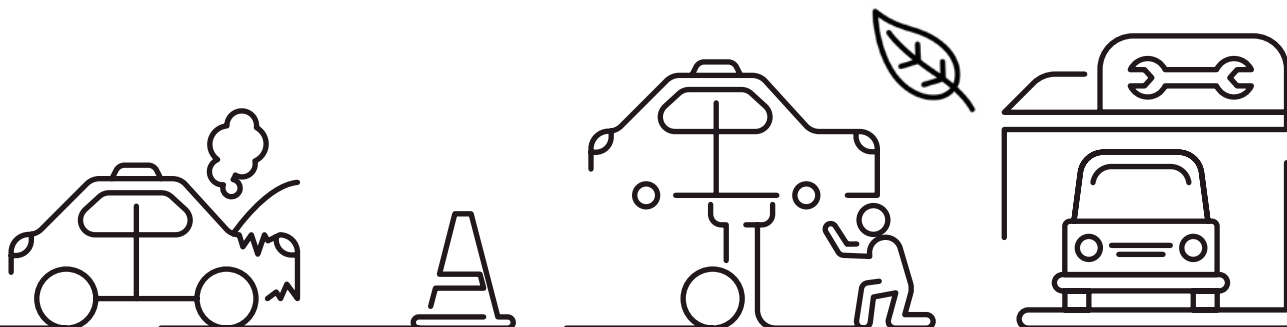
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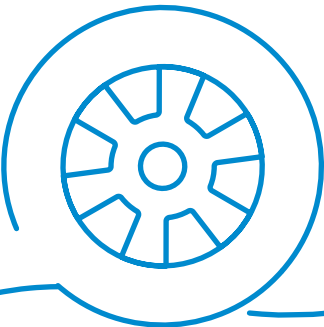
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III. ABBREVIATIONS & ACRONYMS



| | |
|--------------------------|---|
| AC | Air-conditioning |
| AR6 | Sixth Assessment Report |
| BY | Base Year |
| CDP | Carbon Disclosure Project |
| CFP | Carbon Footprint |
| CH4 | Methane |
| CO₂ | Carbon Dioxide |
| CO₂e | Carbon Dioxide equivalent |
| DEFRA | Department for Environment, Food & Rural Affairs |
| EBITDA | Earnings Before Interest, Taxes, Depreciation, and Amortization |
| EF | Emission Factor |
| ERA | Electricity Regulatory Authority |
| ESG | Environmental, Social and Governance |
| GB Auto | Ghabbour Auto |
| GHG | Greenhouse Gases |
| GWP | Global Warming Potential |
| HCWW | Holding Company for Water and Wastewater |
| HVAC | Heating, ventilating, and air conditioning; |
| IPCC | Intergovernmental Panel on Climate Change |
| ISO | International Standard Organization |
| KPI | Key Performance Indicator |
| kWh | Kilowatt hour |
| L | Litre |
| LoB | Line of Business |
| m² | Square meter |
| m³ | Cubic meter |
| MENA | Middle East and North Africa |
| mt | Metric tons |
| mtCO₂e | Metric tons Carbon Dioxide equivalent |
| p.km | Passenger-kilometre |
| Scp | Scope |
| SDG | Sustainable Development Goals |
| SDS | Sustainable Development Strategy |
| TCFD | Task Force on Climate Related Disclosure |
| t.km | Ton kilometer |
| WBCSD | World Business Council for Sustainable Development |
| WF | Water Footprint |
| WRI | World Resources Institute |
| WTT | Well-to-Tank |
| YoY | Year-on-Year |



IV EXECUTIVE SUMMARY



EXECUTIVE SUMMARY

Founded in 1960, Ghabbour (GB) Auto has become a leading automotive company in the Middle East and North Africa (MENA). As GB Auto enters a new era of sustainable development and corporate citizenship, we have felt the need to fully utilize all available frameworks and solutions to achieve a clean and fast transition towards Environmental, Social and Governance (ESG) advancement. Allowing for a solid and methodological assessment, the **Carbon Footprint Analysis** provides a reference to our overall sustainability by addressing the overall emissions related to our operation leading to the assessment of and highlights our performance over time. We aim to align with Egypt Vision 2030 and the Sustainable Development Goals through converting to a greener operation and environmentally conscious operation.

GB Auto is hereby presenting their first carbon footprint assessment, with the reporting period from the 1st of January 2020 to 31st of December 2020, and from the 1st of January 2021 to the 31st of December 2021. The year 2020 serving as the

base year (BY) against which all upcoming years will be compared.

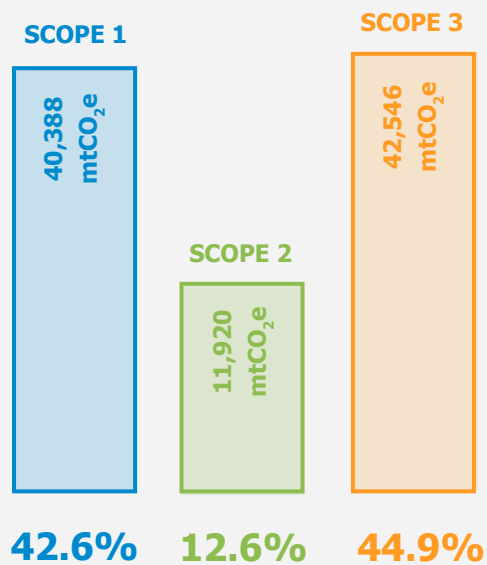
The operational boundaries included GHG emissions of our main activities, embracing direct emissions from controlled equipment and assets, emissions from purchased electricity, and selected indirect emissions resulting from our operations within Egypt and Iraq. The analysis and calculations were based on the Greenhouse Gas Protocol, the Intergovernmental Panel on Climate Change (IPCC) Guidelines for Greenhouse Gas Inventories, and the ISO 14064-1:2018 standards with the baseline being 2020.

Ghabbour Auto has witnessed a total carbon footprint of **94,853 mtCO₂e** for the Base Year (BY) 2020 and **77,783 mtCO₂e** for 2021. This constitutes to an absolute decrease of **18%** in its total carbon footprint emissions with the addition of the increased revenues, the total intensity has witnessed a drop of **41%**

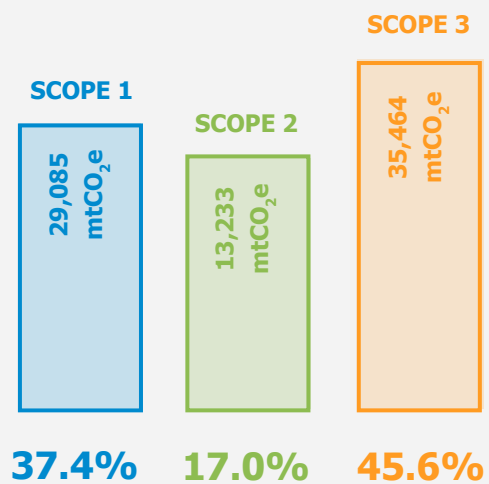
CARBON FOOTPRINT

| | 2020 BASE YEAR | 2021 |
|------------------------------------|---|---|
| Absolute Emissions | 94,853 mtCO ₂ e | 77,783 mtCO ₂ e |
| Intensity per Revenue (Scp 1+2) | 2.9 mtCO ₂ e/Mln EGP | 1.7 mtCO ₂ e/Mln EGP |

2020 EMISSIONS



2021 EMISSIONS



EMISSIONS SUMMARY (2020 AND 2021)

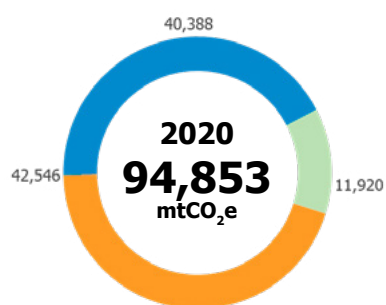
| SCOPE 1 – DIRECT EMISSIONS (mtCO ₂ e) | | 2020 (BY) | | 2021 | |
|--|---|--------------|-----|--------|-----|
| Stationary Combustion | Fuel burning – Diesel | 6,578 | | 2,444 | |
| | Fuel burning – Natural Gas | 170 | | 1,654 | |
| Mobile Combustion | Fuel burning – Owned vehicles (including employees commuting and business travel) | 9,553 | 43% | 4,566 | 37% |
| | Fuel burning - Upstream and downstream transportation | 12,390 | | 10,607 | |
| Fugitive Emissions | Refrigerant leakage | 11,697 | | 9,814 | |
| Total Scope 1 (mtCO ₂ e) | | 40,388 | | 29,085 | |

| SCOPE 2 – INDIRECT EMISSIONS (mtCO ₂ e) | | 2020 (BY) | | 2021 | |
|--|-----------------------|--------------|-----|--------|-----|
| Electricity | Purchased electricity | 11,920 | 13% | 13,233 | 17% |
| Total Scope 2 (mtCO ₂ e) | | 11,920 | | 13,233 | |

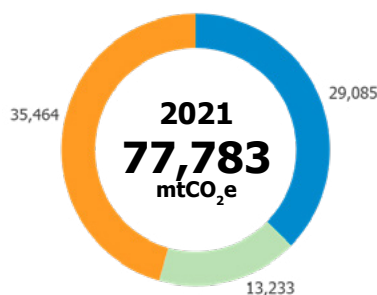
| | | | | | |
|---|--|--------|---------------------------------|--------|---------------------------------|
| Total Scope 1 & 2 Emissions (mtCO ₂ e) | | 52,307 | mtCO ₂ e | 42,318 | mtCO ₂ e |
| Scope 1 & 2 Carbon intensity (mtCO ₂ e/ Mln EGP) | | 2.9 | mtCO ₂ e/ Mln EGP | 1.7 | mtCO ₂ e/ Mln EGP |

| SCOPE 3 – INDIRECT EMISSIONS (mtCO ₂ e) | | 2020 (BY) | | 2021 | |
|--|--|--------------|-----|--------|-----|
| Purchased goods and services | Office supplies | 41 | | 33 | |
| | Fuel burning – Diesel (WTT) | 1,576 | | 568 | |
| Fuel and energy-related activities (not included in scope 1 and 2) | Fuel burning – Natural Gas (WTT) | 22 | | 283 | |
| | Fuel burning – Owned vehicles (WTT) | 2,487 | | 1,088 | |
| | Fuel burning - Upstream and downstream transportation (WTT) | 2,969 | 44% | 2,465 | 46% |
| | Water usage & wastewater treatment | 835 | | 762 | |
| Upstream transportation and distribution | Imports | 34,321 | | 29,929 | |
| Waste generated in operations | Solid waste disposal | 172 | | 190 | |
| Business travel | Hotel stay | 122 | | 42 | |
| | Air Travel + (WTT) | 1 | | 103 | |
| Total Scope 3 (mtCO ₂ e) | | 42,546 | | 35,464 | |

| | | | | | |
|--|--|--------|---------------------|--------|---------------------|
| Total Scope 1, 2 & 3 Emissions (mtCO ₂ e) | | 94,853 | mtCO ₂ e | 77,783 | mtCO ₂ e |
|--|--|--------|---------------------|--------|---------------------|



■ Scope 1 ■ Scope 2 ■ Scope 3

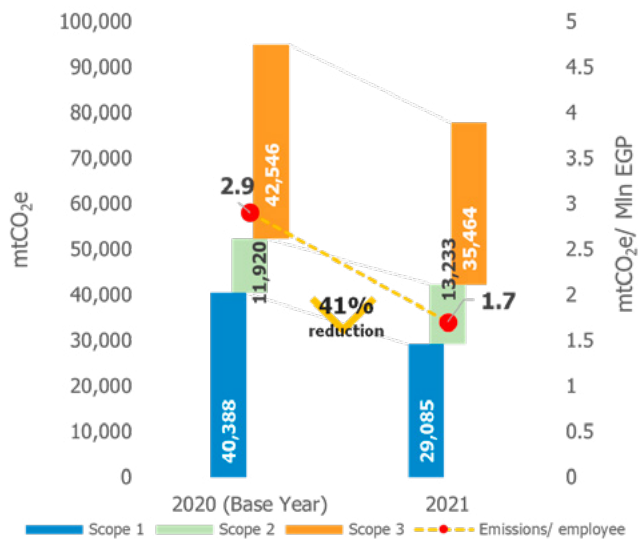


■ Scope 1 ■ Scope 2 ■ Scope 3

Scope 1 direct emissions had a share of **43%** in the base year of 2020. While in the following year, scope 1 emissions were reduced, and the total share was equal to **37%**.

BASEYEAR & CARBON INTENSITY

GHG EMISSIONS PER SCOPE (mtCO₂e)

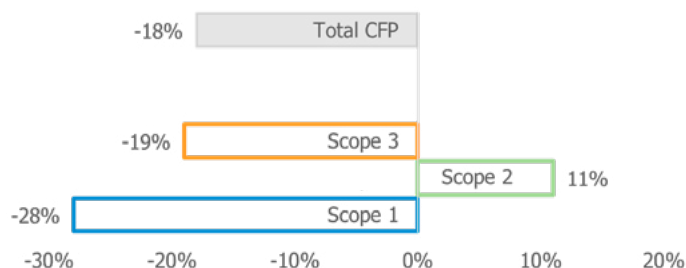


**2021
Carbon
Intensity**
Scope 1 and 2

1.7
mtCO₂e/
Mln EGP

The above graph represents scope 1, 2, and 3 emissions for both reporting periods, as well as scope 1 and 2 emissions per revenue. To keep track of yearly emissions, absolute emissions are used. While the intensity emissions are used to evaluate the business's performance over time. With a reduction of more than 40%, GB Auto demonstrated an improvement in emissions intensity per revenue.

CHANGE IN GB AUTO'S ABSOLUTE EMISSIONS 2020 - 2021 (%)

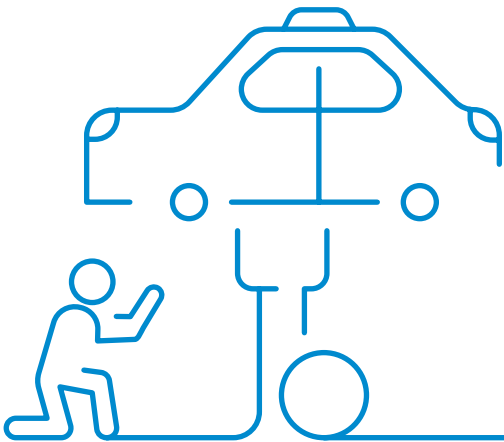


Even though our purchased electricity and natural gas consumption has increased in the year 2021, the overall drop in the carbon footprint emissions can be attributed to the decrease of our scope 1 and 3 emissions and this is mainly because of replacing the diesel fuel with natural gas.

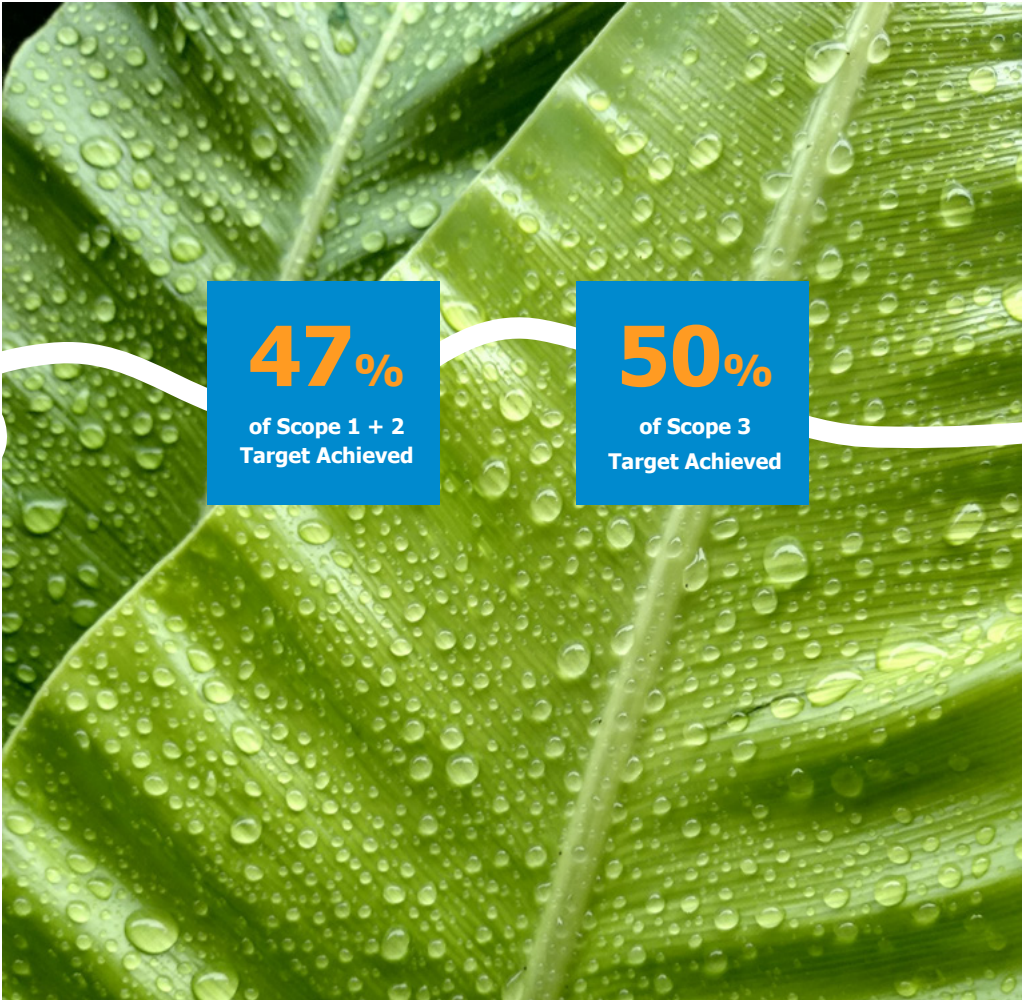
EMISSIONS REDUCTION TARGETS

Accordingly, we have committed to calculating the carbon footprint for the years 2020 and 2021 to determine the environmental impacts and set clear and attainable targets aimed at achieving the 1.5°C scenario. This scenario in short, is a global goal to hold global warming at 1.5°C and was set during the 2015 Paris Agreement.

GB Auto is committed to achieving the following absolute reduction targets by **2028**. As such, the following depicts our targets for each scope:

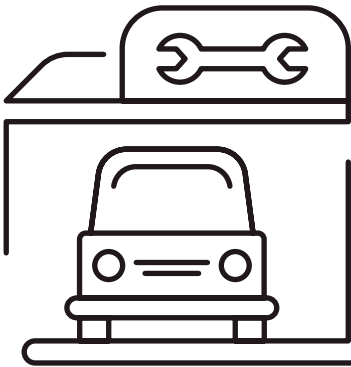


| SCOPE | Base year emissions – mtCO ₂ e (2020) | Most Recent Year (2021) | Target year emissions (2028) | % Reduction target | Status |
|-----------|--|-------------------------|------------------------------|--------------------|--------------|
| SCOPE 1 | 40,388 | 29,085 | 23,039 | 43% | 65% Achieved |
| SCOPE 2 | 11,920 | 13,233 | 7,951 | 34% | 0% Achieved |
| SCOPE 1+2 | 52,308 | 42,318 | 30,954 | 41% | 47% Achieved |
| SCOPE 3 | 42,546 | 35,464 | 28,251 | 34% | 50% Achieved |



DECARBONIZATION PLAN

As such, we are able to determine and conclude that enhancing the sustainability of our operation is a natural possibility. Moving forward we have set a framework and targets to allow for the improvement of our performance and ensure our constant and advancing efforts to reduce our negative impact on the planet.



WAY FORWARD



V INTRODUCTION





INTRODUCTION

With a solid reputation in the automotive industry in Egypt and Iraq, Ghabbour Auto acknowledges its economic, social and environmental impacts within the MENA region. Building on its strong awareness and belief in investing in green solutions, GB Auto has started expanding its sustainable operations frameworks and policies. This year, GB Auto has undergone a carbon footprint analysis to estimate and mitigate all negative impacts related to its operations. At GB Auto we understand the significant impact related to our scope of work and accordingly have decided to quantify it in a clean and clear way to ensure our past and future efforts are within the right track.

As GB Auto remains committed to reducing its energy consumption, it continues to uphold its sustainability policy, which places controls on energy consumption, guides the company's waste treatment efforts, and mitigates pollution risks. The regular introduction of upgrades and improvements across the company's operations has also helped GB Auto reaffirm its willingness to adapt to changing circumstances, especially with the increasing growth of sustainable industrial practices among

companies within the local and global communities. Our new ESG policy builds upon our core beliefs and sets a multitude of further KPIs to ensure our strategic and fast paced advancement. We hope the quantification of our emissions becomes our first step towards setting targets for climate action and building a resilient and competitive business of the future.

Today, the term "carbon footprint" is often used as shorthand for the amount of carbon being emitted by an activity or organization. This idea behind it being that organizations, entities and people can calculate and tabulate their annual emissions and its effect on the atmosphere and global warming. As such, carbon footprint reports have gained a momentum over the years to become a fundamental part of any organization's sustainability reporting practice. Carbon footprint reports generally encompass any entity's directly related emissions and well as indirect ones. At GB Auto, we are proud to be one of the first within our industry in Egypt to report on our emissions and aim at being part of the exemplary sustainable organizations within the MENA Region.

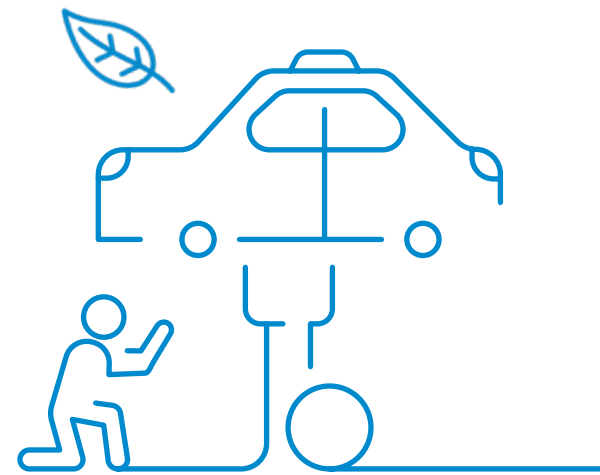
INVENTORY BOUNDARIES

| | |
|---------------------------|----|
| Organizational Boundaries | 15 |
| Operational Boundaries | 17 |
| Reporting Period | 21 |



ORGANIZATIONAL BOUNDARIES

Organizational boundaries define the scope of business and operation that is taken into consideration when calculating a company's Green House Gas Emissions. At Ghabbour Auto, we chose to disclose all operations related to our owned facilities. This covers the manufacturing, assembly, sales, after-sales and trading of passenger cars, motorcycles & three wheelers and construction equipment and tires over Egypt and all operations occurring in our Iraq facilities. Admin buildings, showrooms, service centers, factories, warehouses, and outlets are taken into consideration.



BOUNDARIES *

EGYPT

| FACILITY TYPE | NUMBER OF FACILITIES |
|-----------------|----------------------|
| Service Centers | 25 |
| Factories | 5 |
| Admin | 5 |

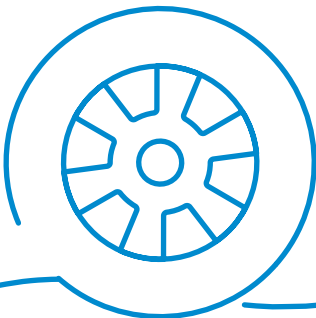
To ensure a clear organizational boundary is properly taken into consideration during GB Auto's carbon foot printing, all dynamic factors – elements that change Year-on-Year (YoY) – as well as static factors must be taken into consideration. Dynamic factors include, but are not limited to: Employees' headcount, production quantity and revenue and number of owned/rented locations. Static boundaries include slowly changing factors or more stable factors which is mainly a branch or location's area.

IRAQ

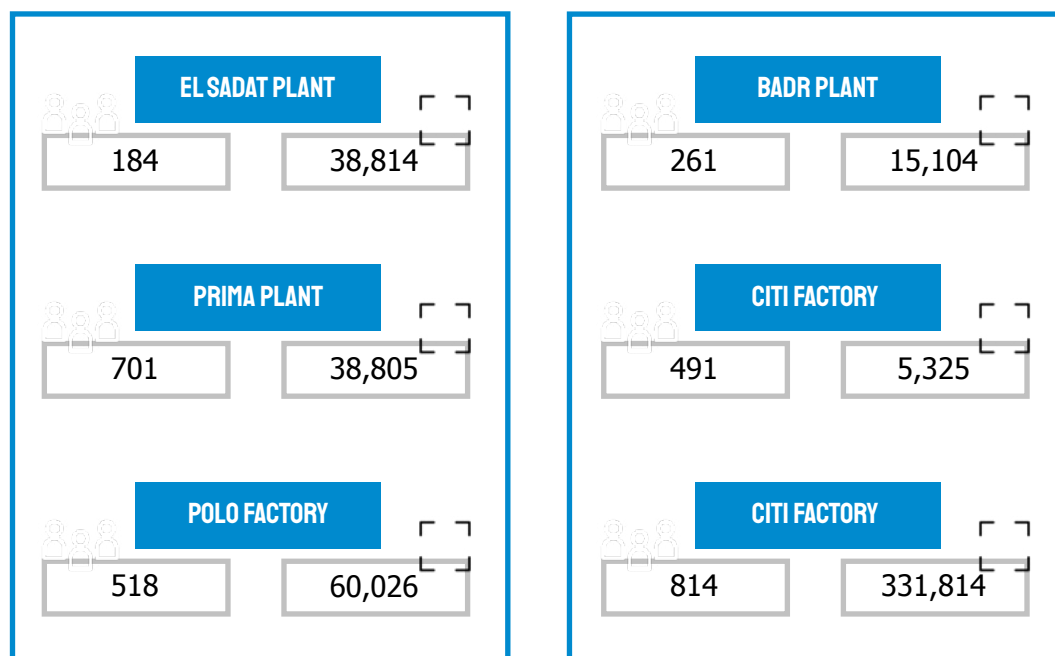
| FACILITY TYPE | NUMBER OF FACILITIES |
|-------------------------------|---|
| Admin | 1 |
| Service Centers | 5 |
| Showrooms | 8 |
| Showrooms and Service Centers | 16 (two of which were introduced in 2021) |
| Warehouse | 5 |
| Outlet | 4 |

For consistency and analysis' purposes, this information is collected over the years to obtain a better understanding of how the operations of GB Auto are affected during these trying times and how that correlate to GB Auto's emissions. Spatial and employee boundaries assist in our target-setting as well.

* More details can be found within the Annexes



SPATIAL AND EMPLOYEE BOUNDARIES



Employees and Workers



Area (m²)



OPERATIONAL BOUNDARIES

Operational boundaries determine the business activities of the reporting company that generate emissions, and which of these activities that should be included in the calculations, and how these activities should be classified (i.e. Direct, or indirect emissions). The emissions fall under different scopes; scope 1, resulting from GB Auto's owned or controlled equipment and assets, scope 2 covering emissions from purchased electricity; and Scope 3

embracing significant indirect emissions resulting from the operations.

In conformance with the GHG Protocol Corporate Standard, the reporting of Scope 1 and Scope 2 emissions, direct emissions and indirect emissions resulting from purchased electricity, are mandatory to report. The operational boundaries for GB Auto's carbon footprint assessment included the following:



SCOPE 1 - DIRECT EMISSIONS

Emissions from sources that are owned or controlled by **GB Auto** (i.e. any owned or controlled activities that release emissions straight into the atmosphere).

The list of scope 1 activities includes the following:

- Stationary combustion
 - ◊ Diesel fuel burning on site (This mainly includes diesel generators)
 - ◊ Natural gas fuel burning
- Mobile combustion
 - ◊ Owned vehicles (including employees commuting and business travel)
 - ◊ Upstream and downstream transportation
- Fugitive emissions:
 - ◊ Refrigerant leakage

SCOPE 2 - INDIRECT EMISSIONS

Emissions associated with the consumption of purchased electricity, heat or steam from a source that is not owned or controlled by **GB Auto**.

The list of scope 2 activities includes the following:

- Purchased electricity

SCOPE 3- INDIRECT EMISSIONS

Emissions resulting from other activities that are not covered in scope 1 and 2. This includes transport fuel used by air business travel, imports, emissions from waste disposal; ... etc. **The list of scope 3 activities includes the following:**

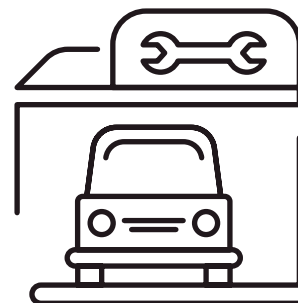
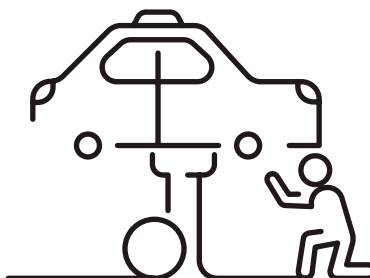
- Purchased goods and services
 - ◊ Office supplies
- "Fuel and energy-related activities (not included in scope 1 and 2)"
 - ◊ Fuel burning: diesel Well-to-Tank (WTT)
 - ◊ Fuel burning: natural gas (WTT)
 - ◊ Fuel burning: owned vehicles (WTT)
 - ◊ Fuel burning: Upstream and downstream transportation (WTT)
 - ◊ Water usage & wastewater treatment
- Upstream transportation and distribution
 - ◊ Imports
- Waste generated in operations
 - ◊ Office solid waste disposal
- Business travel
 - ◊ Air travel + (WTT)
 - ◊ Hotel stay





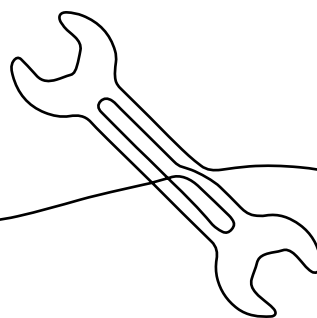
REPORTING PERIOD

The reporting period covers from the 1st of January 2020 to the 31st of December 2021. This is the first report for the GB Auto; therefore, 2020 will be considered the base year to which all future years will be referenced.



OVERALL METHODOLOGY

| | |
|----------------------------------|----|
| Followed Protocols and Standards | 17 |
| Calculation Approach | 21 |



FOLLOWED PROTOCOLS & STANDARDS

This carbon footprint report is based on a number of international and commonly used carbon footprint accounting and reporting standards, protocols, and guidelines, including the following:

The Greenhouse Gas Protocol Guidelines which include, but not limited to:

- ◇ A Corporate Accounting and Reporting Standard
- ◇ Corporate Value Chain (Scope 3) Accounting and Reporting Standard

ISO 14064-1:2019

Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

2006 Intergovernmental Panel on Climate Change (IPCC)

Guidelines for Greenhouse Gas Inventories (with 2019 Refinements).



CALCULATION APPROACH

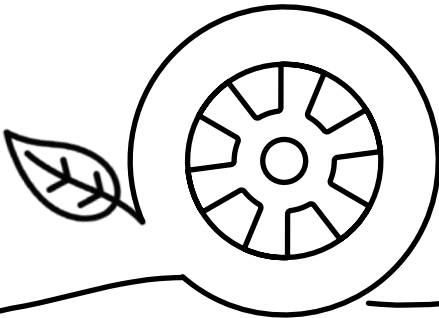
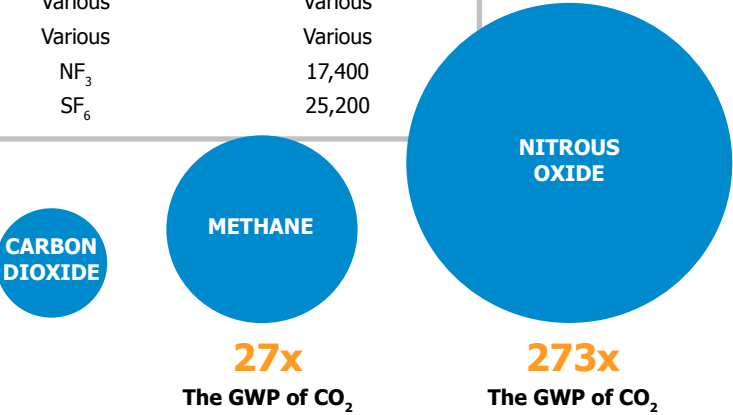
As required by best practice in organizational GHG accounting and the chosen WBCSD/ WRI GHG Protocol, all seven Kyoto Protocol greenhouse gases have been included where applicable and material. This includes biogenic carbon dioxide, which is created from the combustion, harvesting, decomposition or processing of biological sources rather than fossil sources.

Global warming potentials (GWPs) are factors describing the radiative forcing impact of one unit of a specific greenhouse gas (e.g. methane) relative to one unit of carbon dioxide. They are used in GHG accounting to convert

individual greenhouse gas emissions totals to a single standardized unit useful for comparison, carbon dioxide equivalent, or CO₂e.

The carbon footprint applied 100-year GWPs to all emissions data in this inventory in order to calculate total emissions in metric tons carbon dioxide equivalent (mtCO₂e). Global warming potential values were sourced from the Intergovernmental Panel on Climate Change's (IPCC) sixth Assessment Report (AR6 2021), the most recent IPCC report available at the time of assessment. The Kyoto Protocol GHGs (or categories of GHGs) and their respective GWPs are listed in the table below.

| GREENHOUSE GAS | CHEMICAL FORMULA | 100-YEAR GWP |
|---------------------------|------------------|--------------|
| Carbon dioxide | CO ₂ | 1 |
| Methane | CH ₄ | 27 |
| Nitrous oxide | N ₂ O | 273 |
| Hydrofluorocarbons (HFCs) | Various | Various |
| Perfluorocarbons (PFCs) | Various | Various |
| Nitrogen trifluoride | NF ₃ | 17,400 |
| Sulphur hexafluoride | SF ₆ | 25,200 |





Each activity falls under a certain scope according to the GHG Protocol Guidelines; Scope 1 (Direct emissions), Scope 2 (Indirect emissions associated with the consumption of purchased electricity) and Scope 3 (Indirect emissions) that are a consequence of the operations of the organization but are not directly owned or controlled by the reporting company.

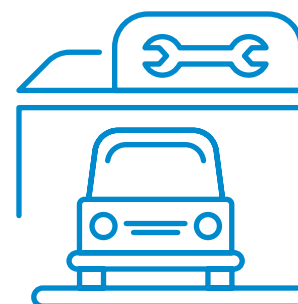
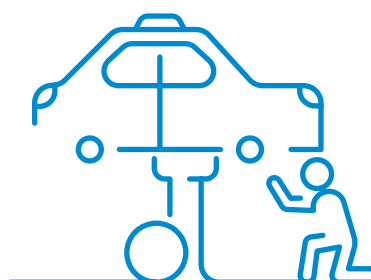
When calculating the CFP of Ghabbour Auto, the emissions of each activity have been considered. Each activity falls under a certain scope, which is described more in depth under each activity. The general calculation approach for the emissions, counted in mtCO_2e , is

multiplying the activity with its corresponding emission factor. When doing this, a unit analysis is performed in order to make sure the results of the emissions are obtained in the desired unit mtCO_2e . The general formula for calculating the emissions for each activity is according to the below equation.

The unit of the GHG Emissions is metric tons carbon dioxide equivalent (mtCO_2e). The unit CO_2e refers to an amount of a GHG, whose atmospheric impact has been standardized to that one-unit mass of carbon dioxide (CO_2), based on the global warming potential (GWP) of the gas.

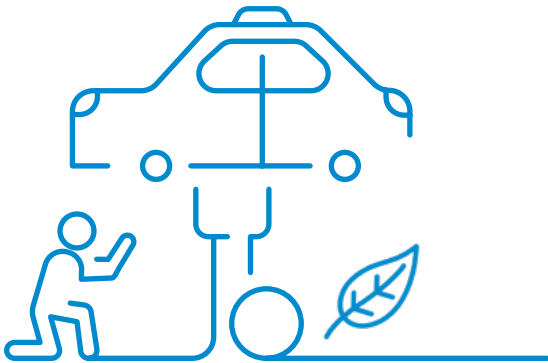
$$\text{GHG Emissions, } E [\text{mtCO}_2\text{e}] = \text{Activity, } A [\text{unit}] \times \text{Emission Factor, } EF [\text{mtCO}_2\text{e/unit}]$$

The general formula could be applied for each activity to obtain its emissions. All activities were calculated for the fiscal year, **2020 and 2021**. Thus, the emissions accounted for, were those of the total value for each activity in a single fiscal year.



EMISSION FACTORS

Emission factors (EF) are representing the quantity of pollutants released to the atmosphere caused by a certain activity. The emission factor is usually expressed as the carbon dioxide equivalent (CO₂e) emissions generated by a unit weight, volume, distance, or duration of the activity, e.g., CO₂e /liter fuel consumed, CO₂e /km driven or CO₂e / kWh of purchased electricity etc. The emission factors were identified based on:



DEFRA

Department for Environment, Food & Rural Affairs UK 2020 and 2021

IPCC

Intergovernmental Panel on Climate Change

Country Specific Emission Factors

Emission factor calculated specifically for Egypt

As regards to the country specific emission factor, the emission factor is reported monthly by Egypt Electricity Regulatory authority (ERA). An average value is calculated for each year. The emission factor is based on Egypt's actual fuel consumption.

The emission factor for water supply and wastewater treatment is calculated using a conversion formula, provided by the Holding Company for Water and Wastewater (HCWW). Based on the amount of energy consumed in each process, the corresponding emission factor could be obtained.



CARBON FOOTPRINT 2020.21 RESULTS



| YEAR | 2020 (BY) | 2021 |
|-------------------------------------|---|---|
| TOTAL EMISSIONS | 94,853 mtCO ₂ e | 77,783 mtCO ₂ e |
| EMISSION INTENSITY (SCOPE 1 + 2) | 2.9 mtCO ₂ e/Mln EGP | 1.7 mtCO ₂ e/Mln EGP |



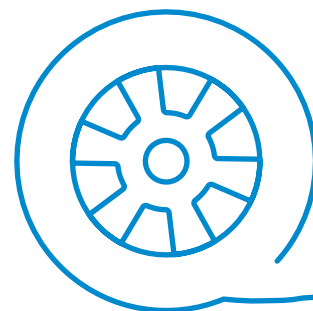
SCOPE I – DIRECT EMISSIONS

STATIONARY COMBUSTION

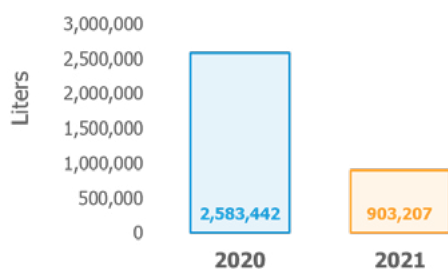


FUEL BURNING - DIESEL

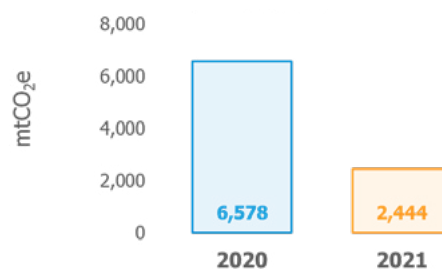
Emissions resulting from diesel fuel burning on site fall under scope 1 (direct emissions). Diesel burned is used in different activities including the use of diesel to generate electricity in factories, service centers and showrooms. In 2020 GB auto facilities consumed **2,583,442 liters** of diesel and resulted in **6,578 mtCO₂e**. As for the year 2021, GB auto consumed **903,207 liters** of diesel which resulted in **2,444 mtCO₂e**.



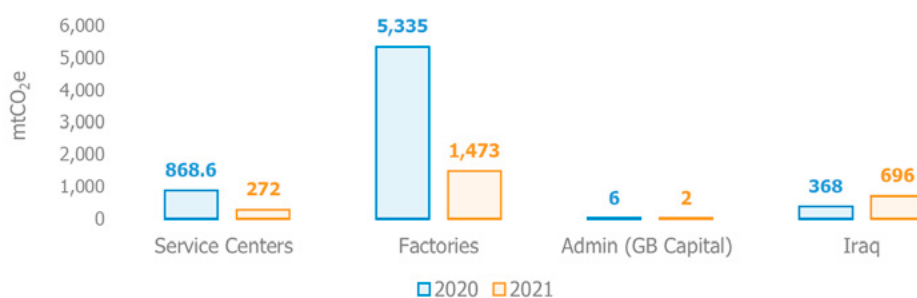
Total Diesel Consumption (Liters/year)



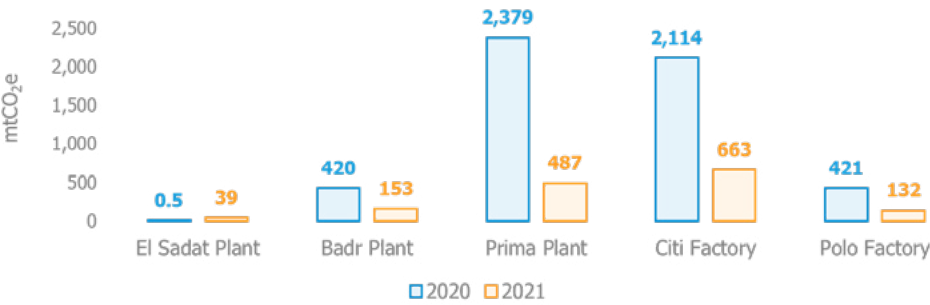
Total Diesel Fuel Burning Emissions (mtCO₂e/year)



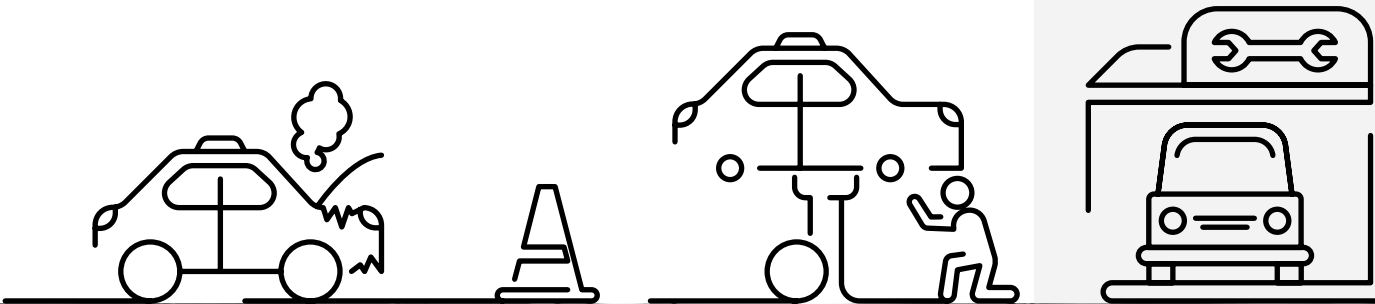
Diesel Fuel Burning Emissions per type of facility (mtCO₂e/ year)



Diesel Fuel Burning Emissions per Factory (mtCO₂e/Factory)



The highest emissions resulted from Prima and Citi factories in the base year 2020 resulting in 2,379 and 2,114 mtCO₂e respectively. After switching to natural gas, these factories were able to drastically reduce their diesel emissions the following year with emissions of 487 and 663 mtCO₂e. This was around 80% reduction in Prima plant and 68% reduction in Citi factory.

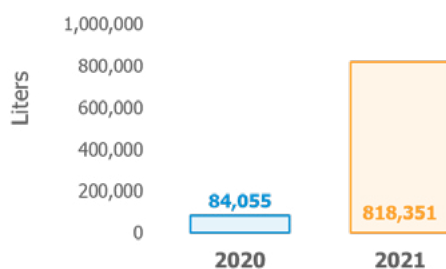




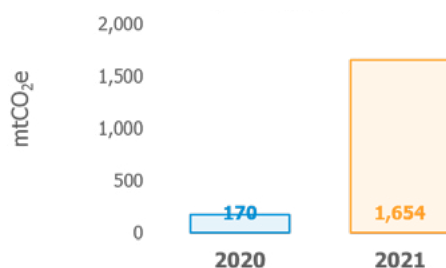
FUEL BURNING - NATURAL GAS

Since it is directly used by GB Auto, the emissions resulting from the consumption of natural gas were accounted for under scope 1. Natural gas burned is used in different activities in factories, service centers and showrooms. In the base year 2020, GB auto facilities consumed **84,055 m³** of natural gas and resulted in **170 mtCO₂e** and in 2021 the increase in consumption reached **818,351 m³** this resulted in **1,654 mtCO₂e**.

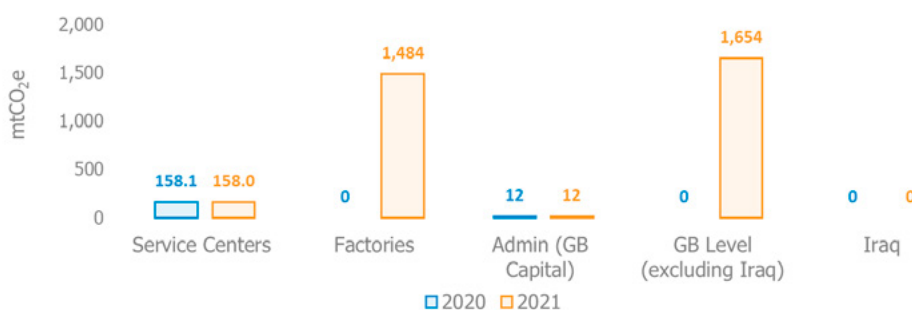
Total Natural gas Consumption (m³/year)



Total Natural Gas Fuel Burning Emissions (mtCO₂e/year)



Natural gas Fuel Burning Emissions per type of facility (mtCO₂e/ year)



For the year 2021 the overall natural gas consumption increased by 870% as shown in the graph above which resulted in an increase in emissions from 170 mtCO₂e to 1,654 mtCO₂e

The factories with the greatest emissions were those that had reduced their diesel emissions and switched to natural gas. The dramatic increase can be seen from the baseline year of 2020, which was zero, to the year 2021, which resulted in 1,484 mtCO₂e, or 90% of total natural gas emissions in 2021.



MOBILE COMBUSTION



FUEL BURNING - Owned Vehicles (including employees commuting and business travel)

Mobile combustion includes emissions from our company's owned vehicles, which are accounted for under scope 1 (direct emissions). In 2020, our company's owned vehicles and employees commuting to and from the workplace consumed 1,758,977 liters of gasoline, resulting in **9,553 mtCO₂e**. In 2021, GB Auto consumed 1,749,135 liters of gasoline, resulting in **4,566 mtCO₂e**.

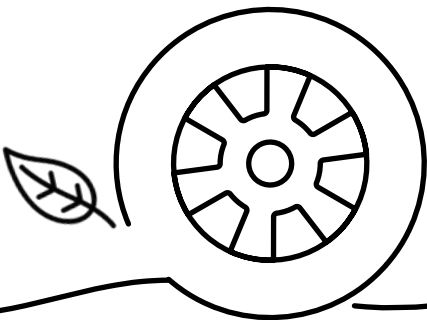


FUEL BURNING - Upstream and downstream transportation

Scope 1 accounts for the transportation of imported products from ports to factories, as well as the transfer of products from factories to service centers and showrooms. In 2020, our company's upstream and downstream transportation activities consumption was 4,866,254 liters of diesel, resulting in emissions of **12,390 mtCO₂e**. As for the year 2021, our consumption was equal to 3,920,579 liters of diesel in upstream and downstream transportation activities which resulted in **10,607 mtCO₂e**.



Mobile Combustion Emissions (mtCO₂e/year)



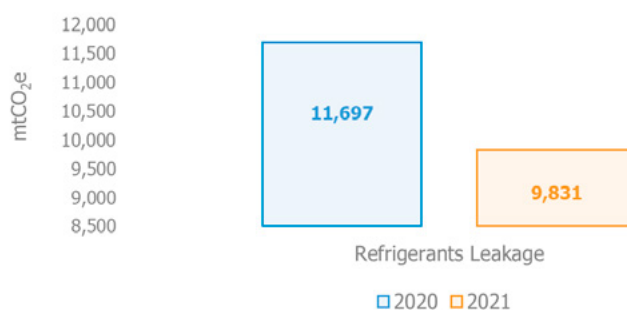
FUGITIVE EMISSIONS



REFRIGERANT LEAKAGE

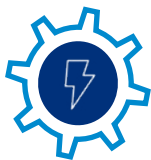
Refrigerants are fluids used in refrigeration for cooling. The emissions resulted from this activity fall under scope 1 (direct emissions). GB Auto have consumed 6,789 kg of R-22, and R 134A and other mix of refrigerants in 2020 and resulted in **11,697 mtCO₂e**. As for the year 2021 GB Auto consumed 5,415 kg of refrigerants and resulted in **9,831 mtCO₂e**. Refrigerant leakage was the second most significant emitting activity in scope 1 direct

Refrigerants Emissions (mtCO₂e/year)



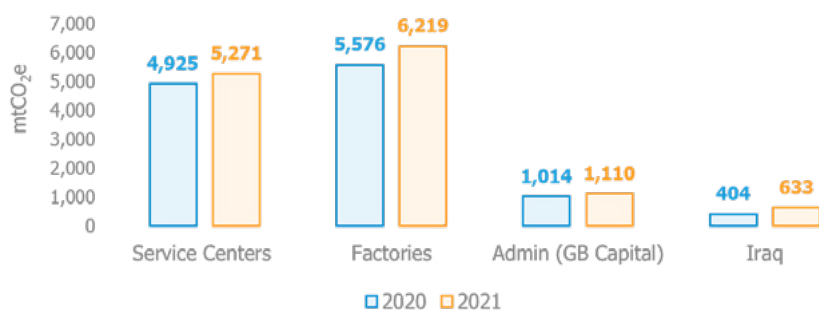
SCOPE2 – INDIRECT EMISSIONS

PURCHASED ELECTRICITY

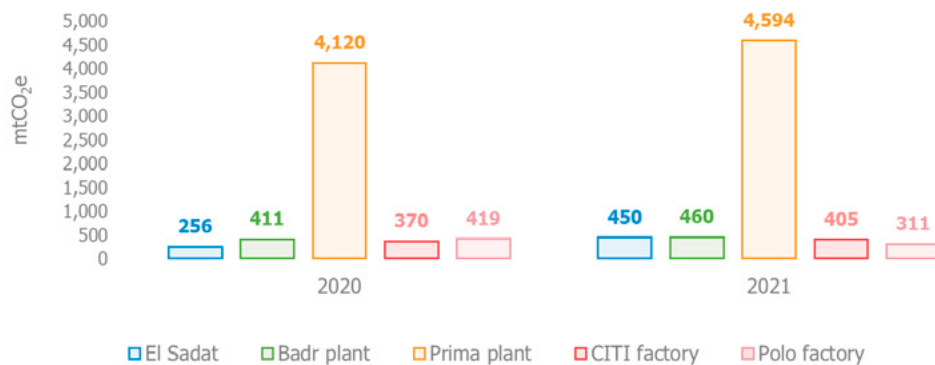


The electricity consumption for GB auto for the year 2020 was **26,963,328 kWh** and resulted in emissions of **11,920 mtCO₂e**, and for the year 2021 was **30,518,957 kWh** and resulted in **13,233 mtCO₂e**. This activity accounts for the second largest share of the carbon footprint emissions, accounting for about 13% and 17% of total scope 1, 2 and 3 emissions in 2020 and 2021.

Purchased Electricity Emissions per line of Business (mtCO₂e/year)

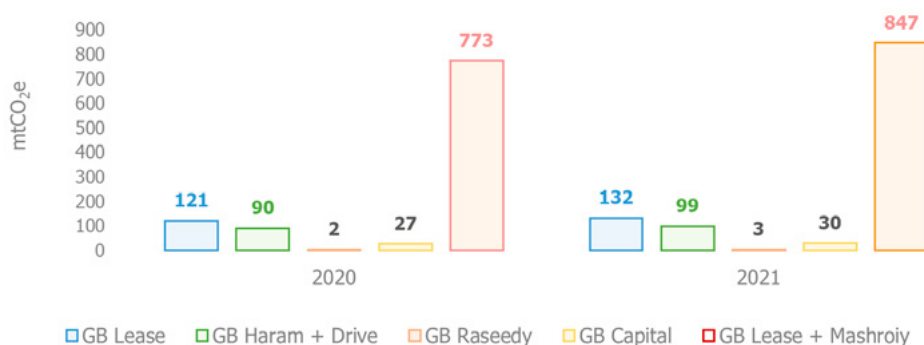


Electricity Emissions per Factory (mtCO₂e/year)



Prima Plant, with a share of 73 percent of the factory's overall emission in 2021, can be seen as the source of most GB auto's electricity emissions.

Electricity Emissions per Admin building (mtCO₂e/year)



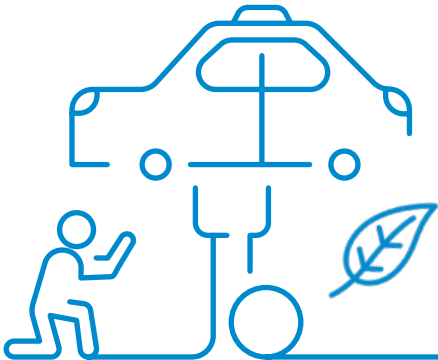
SCOPE 3 – INDIRECT EMISSIONS

PURCHASED GOODS AND SERVICES

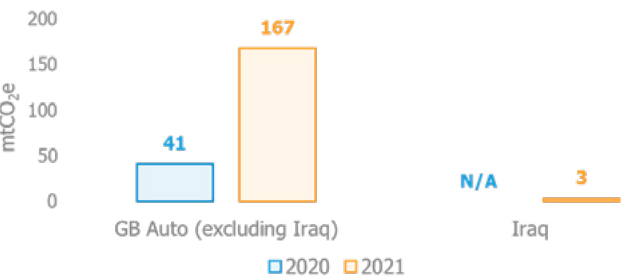


OFFICE SUPPLIES

Which includes paper, ink cartridges, flyers, face masks, etc., falls under scope 3 (indirect emission). Our office supplies consumption for the year 2020 was **44 tons** and it resulted in emissions of **41 mtCO₂e**, as for the year 2021 our consumption was **186 tons** and resulted in **171 mtCO₂e**.



Purchased Goods Emissions (mtCO₂e/year)



FUEL AND ENERGY-RELATED ACTIVITIES

(NOT INCLUDED IN SCOPE 1&2)



WELL-TO-TANK (WTT) EMISSIONS

GB Auto accounted for WTT emissions in order to capture the maximum climate impacts from fuel burning activities. Emissions related to fuel burning WTT fall under scope 3 are as follows:

- 1

Fuel burning - Diesel WTT: For the years 2020 and 2021, WTT emissions resulting from diesel usage were **1,576 mtCO₂e** and **568 mtCO₂e** respectively.
- 2

Fuel burning - Natural gas WTT The WTT emissions related to the consumption of natural gas were **22.11 mtCO₂e** in 2020 and **283 mtCO₂e** in 2021.
- 3

Fuel burning - Owned vehicles (including employees commuting and business travel) WTT: GB Auto's WTT emissions in 2020 were equal to **2,487 mtCO₂e** and for the year 2021 the emissions were **1,088 mtCO₂e**.
- 4

Fuel burning - Upstream and downstream transportation (WTT): Finally, the WTT emissions related to this activity were equal to **2,969 mtCO₂e** in 2020, and for the year 2021 the emissions were **2,465 mtCO₂e**. This was the highest emitting activity in this category.



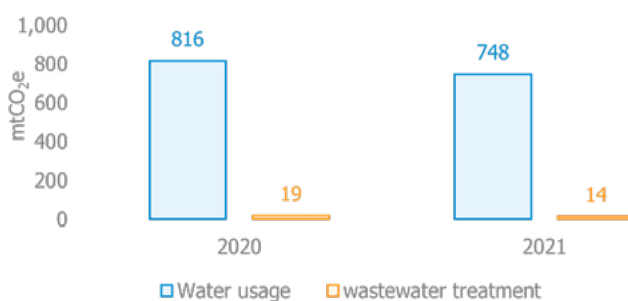
| 2020 (BY) | 2021 |
|------------------------------|------------------------------|
| 1,576 mtCO ₂ e | 568 mtCO ₂ e |
| 22 mtCO ₂ e | 283 mtCO ₂ e |
| 2,487 mtCO ₂ e | 1,088 mtCO ₂ e |
| 2,969 mtCO ₂ e | 2,465 mtCO ₂ e |



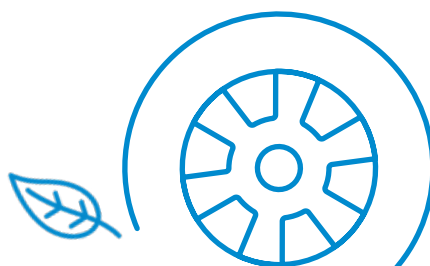
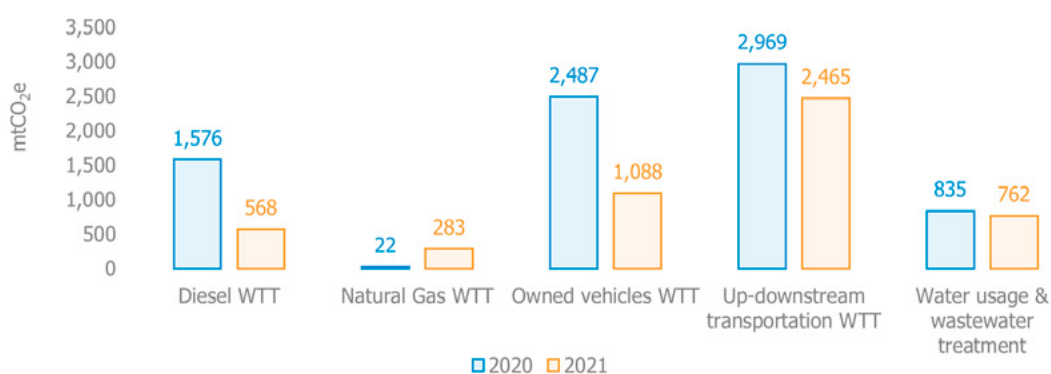
WATER USAGE & WASTEWATER TREATMENT

Scope 3 includes water consumption and wastewater treatment emissions. In the reporting period of 2020, GB Auto's facilities consumed 634,166 m³ of water resulting in **816 mtCO₂e** for water consumption and **19 mtCO₂e** for wastewater treatment. The overall water consumption in the year 2021 was equal to 493,402 m³ which resulted in **748 mtCO₂e** for water consumption and **14 mtCO₂e** for wastewater treatment.

Water usage & wastewater treatment Emissions (mtCO₂e/year)



Fuel and energy-related activities (not included in scope 1&2) emissions summary per activity (mtCO₂e/year)

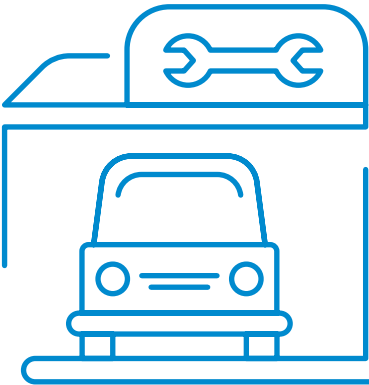


UPSTREAM TRANSPORTATION AND DISTRIBUTION

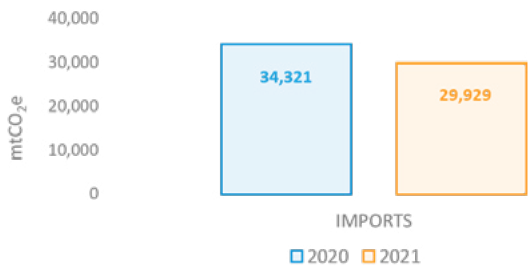


IMPORTS

Imports of complete build ups (CBU's), spare parts and vehicle body parts are accounted for under scope 3 (indirect emissions). In the base year of 2020, the total imports have reached **170,684 ton.km** and resulted in emissions of **34,321 mtCO₂e**. As for the year 2021, the imports were **157,096 ton.km** and resulted in emissions of **29,929 mtCO₂e**.



Imports Emissions (mtCO₂e/year)



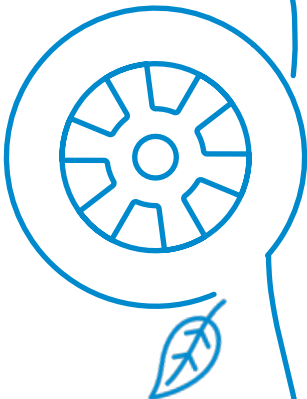
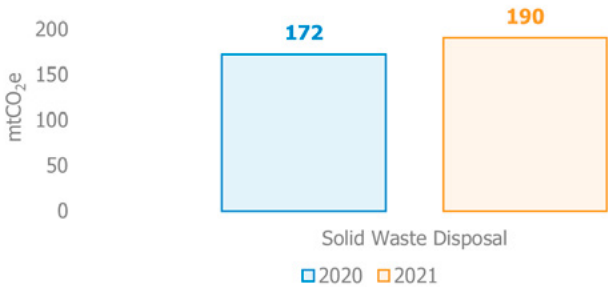
WASTE GENERATED IN OPERATIONS



SOLID WASTE DISPOSAL

The solid waste generated in operations was accounted for under scope 3 (indirect emissions). The emissions associated with transportation of waste from the facility to disposal or treatment was accounted for in this category. The waste generated from our facilities for the year 2020 was **8,076 tons** and resulted in **172 mtCO₂e**, as for the following year, the quantities have reached **8,928 tons** which resulted in **190 mtCO₂e**.

Solid Waste Disposal Emissions (mtCO₂e/year)



BUSINESS TRAVEL



HOTEL STAY

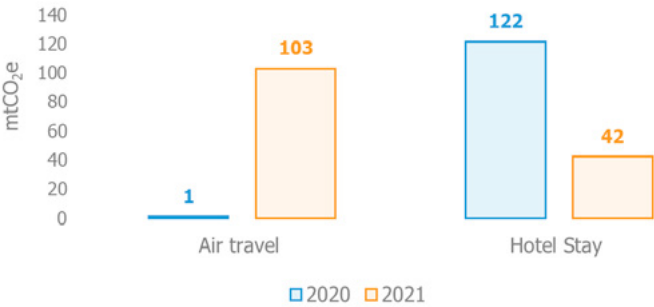
Hotel stay emissions from business-related visits are accounted for under scope 3 (indirect emissions). In 2020, **2,006 nights** were stayed, resulting in **122 mtCO₂e**, while in 2021, **746 nights** were stayed, resulting in **42 mtCO₂e**.



AIR TRAVEL + (WTT)

Because of COVID-19, GB Auto only had domestic flights in 2020. The total kilometers travelled by all passengers were **6,271 p.km**, resulting in **1.1 mtCO₂e**. International as well as domestic flights took place in the year 2021. In this year, total passenger kilometers for domestic and international flights totaled **605,203 p.km**, resulting in **103 mtCO₂e**. WTT emissions were taken into account in order to capture the maximum impacts of air travel.

Business Travel Emissions (mtCO₂e/year)



EMISSIONS SUMMARY (2020 AND 2021)

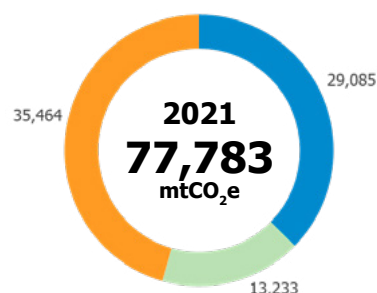
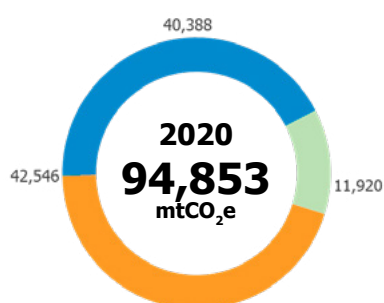
| SCOPE 1 – DIRECT EMISSIONS (mtCO ₂ e) | | 2020 (BY) | | 2021 | |
|--|---|--------------|-----|--------|-----|
| Stationary Combustion | Fuel burning – Diesel | 6,578 | 43% | 2,444 | 37% |
| | Fuel burning – Natural Gas | 170 | | 1,654 | |
| Mobile Combustion | Fuel burning – Owned vehicles (including employees commuting and business travel) | 9,553 | | 4,566 | |
| | Fuel burning - Upstream and downstream transportation | 12,390 | | 10,607 | |
| Fugitive Emissions | Refrigerant leakage | 11,697 | | 9,814 | |
| Total Scope 1 (mtCO ₂ e) | | 40,388 | | 29,085 | |

| SCOPE 2 – INDIRECT EMISSIONS (mtCO ₂ e) | | 2020 (BY) | | 2021 | |
|--|-----------------------|--------------|-----|--------|-----|
| Electricity | Purchased electricity | 11,920 | 13% | 13,233 | 17% |
| Total Scope 2 (mtCO ₂ e) | | 11,920 | | 13,233 | |

| | | | | |
|---|--------|---------------------------------|--------|---------------------------------|
| Total Scope 1 & 2 Emissions (mtCO ₂ e) | 52,307 | mtCO ₂ e | 42,318 | mtCO ₂ e |
| Scope 1 & 2 Carbon intensity (mtCO ₂ e/ Mln EGP) | 2.9 | mtCO ₂ e/ Mln EGP | 1.7 | mtCO ₂ e/ Mln EGP |

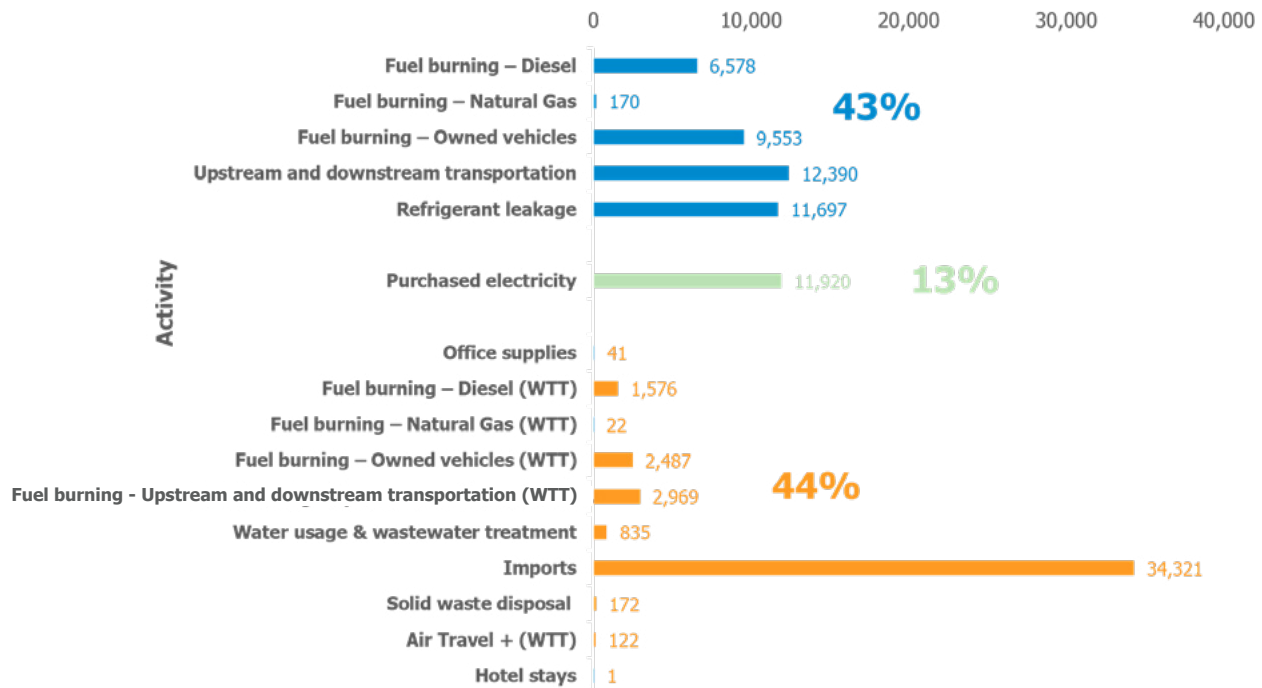
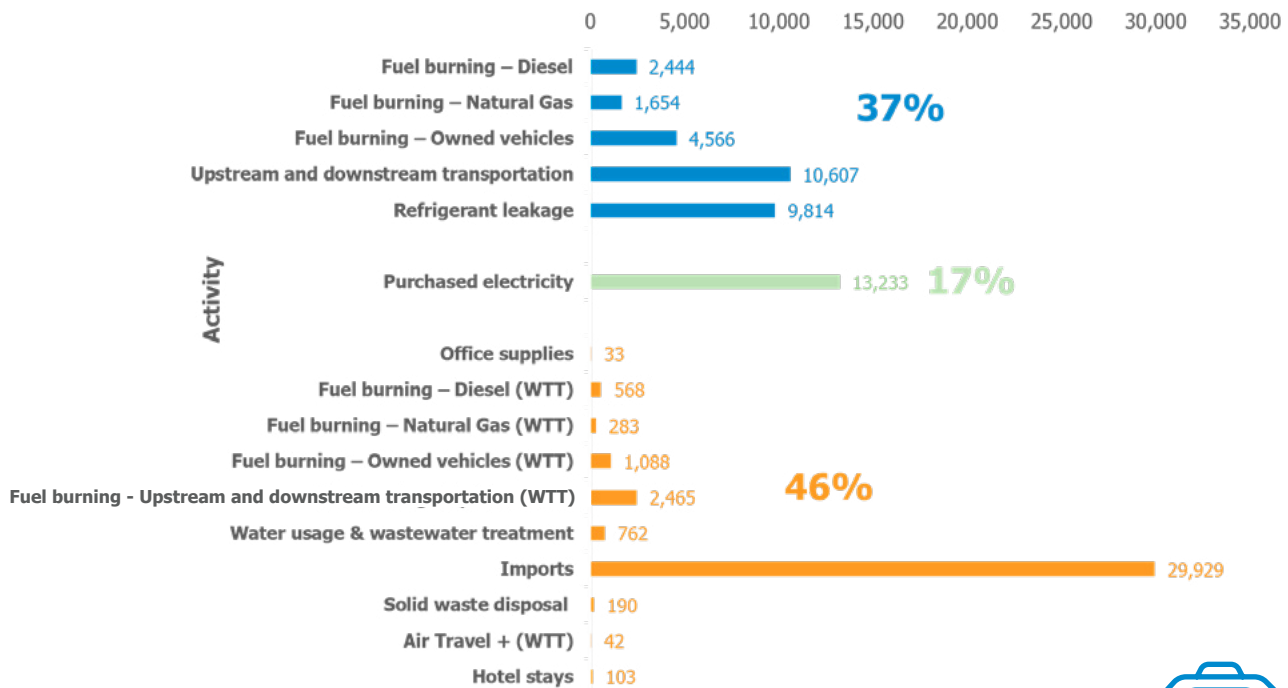
| SCOPE 3 – INDIRECT EMISSIONS (mtCO ₂ e) | | 2020 (BY) | | 2021 | |
|--|--|--------------|-----|--------|-----|
| Purchased goods and services | Office supplies | 41 | 44% | 33 | 46% |
| | Fuel burning – Diesel (WTT) | 1,576 | | 568 | |
| | Fuel burning – Natural Gas (WTT) | 22 | | 283 | |
| | Fuel burning – Owned vehicles (WTT) | 2,487 | | 1,088 | |
| | Fuel burning - Upstream and downstream transportation (WTT) | 2,969 | | 2,465 | |
| Upstream transportation and distribution | Water usage & wastewater treatment | 835 | 44% | 762 | 46% |
| | Imports | 34,321 | | 29,929 | |
| Waste generated in operations | Solid waste disposal | 172 | | 190 | |
| | Hotel stay | 122 | | 42 | |
| Business travel | Air Travel + (WTT) | 1 | | 103 | |
| Total Scope 3 (mtCO ₂ e) | | 42,546 | | 35,464 | |

| | | | | |
|--|--------|---------------------|--------|---------------------|
| Total Scope 1, 2 & 3 Emissions (mtCO ₂ e) | 94,853 | mtCO ₂ e | 77,783 | mtCO ₂ e |
|--|--------|---------------------|--------|---------------------|

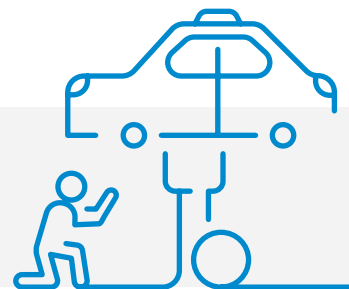


■ Scope 1 ■ Scope 2 ■ Scope 3

■ Scope 1 ■ Scope 2 ■ Scope 3

2020 Emissions per activity (mtCO₂e)2021 Emissions per activity (mtCO₂e)

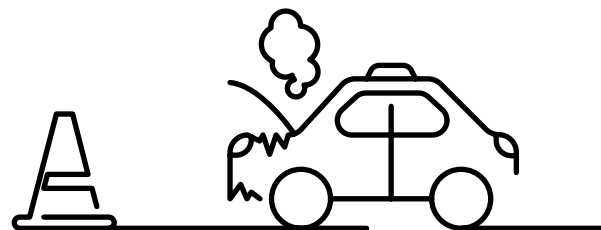
Imports (scope 3, Indirect emissions) had the highest contribution in both reporting periods, with percentages of 36 percent and 38 percent of the total emissions, respectively.



IX BASE YEAR & TARGETS EVALUATION

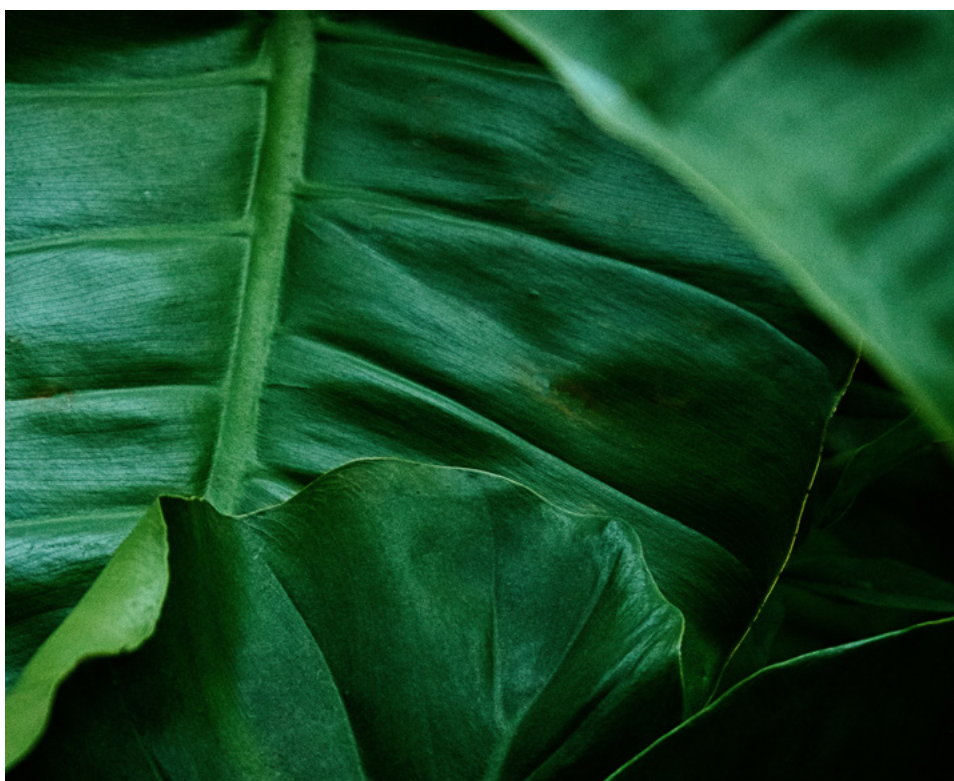
BASE YEAR & CARBON INTENSITY

The Base Year represents a reference point in the past against which current emissions can be compared. The base year for GB Auto's carbon emissions is 2020, as this is the first year when GB Auto first started calculating the emissions for all its operations. In the following table, GHG emissions for the years 2020 and 2021 are compared:



| SCOPE | | ABSOLUTE EMISSIONS (mtCO ₂ e) | | DIFFERENCE |
|--|---------|---|---|------------|
| | | BASE YEAR EMISSIONS – mtCO ₂ e (2020) | 2021 EMISSIONS – mtCO ₂ e | |
| SCOPE 1 | | 40,388 | 29,085 | - 11,303 |
| SCOPE 2 | | 11,920 | 13,233 | +1,313 |
| SCOPE 1+2 | | 52,307 | 42,318 | - 9,989 |
| SCOPE 3 | | 42,546 | 35,464 | -7,082 |
| Emissions Intensity Scope 1 & 2 | Revenue | 2.9 | 1.7 | -1.2 |
| | EBITDA* | 41.6 | 21.8 | -19.8 |
| Emissions Intensity Scope 1, 2 & 3 | Revenue | 3.8 | 4.3 | +0.5 |
| | EBITDA | 49.8 | 62.2 | +12.4 |

* Earnings Before Interest, Taxes, Depreciation, and Amortization



A carbon intensity is the emission rate of a given pollutant relative to the intensity of a specific activity, or an industrial production process. An example of emission intensity is the ratio of GHG emissions produced to the total revenues of GB and GB related entities. This would help in understanding and analyzing

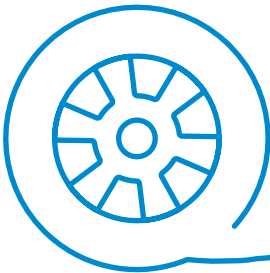
the performance of each factory when compared to the base-year intensity. GB Capital was excluded from the calculations because the data provided did not represent GB Capital as well as the emissions. The following charts show the difference in emissions/ revenue for the years 2020, and 2021:

GHG Emissions per Scope (mtCO₂e)

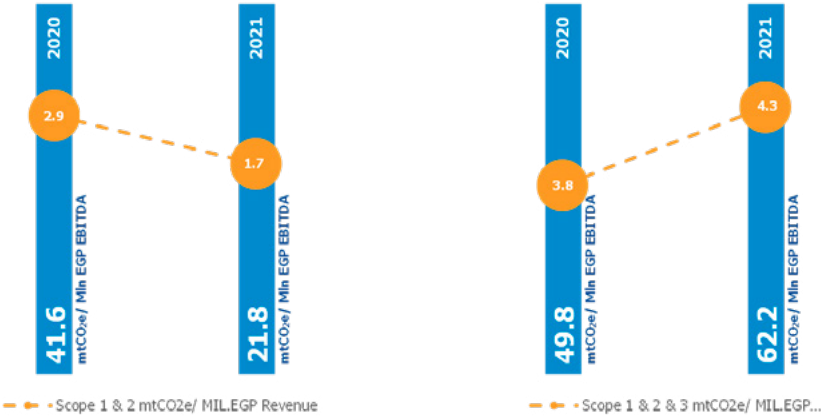




As observed below (as well as within the above table), the carbon intensity decreased for the calculated scope 1 & 2, this was due to the drastic decrease in diesel fuel and its replacement with natural gas in 2021. As for scope 1, 2 & 3 there is an increase in the calculated carbon intensity due to the additional data in scope 3 that was not available in the year 2020 but was completed in the year 2021.



Carbon Emissions Intensity



X TARGETS

Climate Scenario Aligned with a
1.5 Degree Temperature Goal

41

TARGETS

In Paris in 2015, we witnessed a historic and unprecedented moment of global unanimity. Nearly 200 countries have committed to keeping global warming far below 2 degrees Celsius above pre-industrial levels, with a target of 1.5 degrees Celsius.

Targets set a clear roadmap for businesses to reduce greenhouse gas (GHG) emissions, allowing them to avoid the worst effects of climate change while also assuring future corporate success.

All targets are based on the Absolute Contraction method, which calls for a 1.5 degree Celsius scenario by 2028.

Scope 1 & 2 target

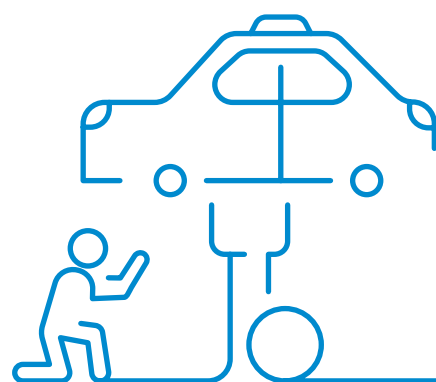
40.8%

Reduction to 2028



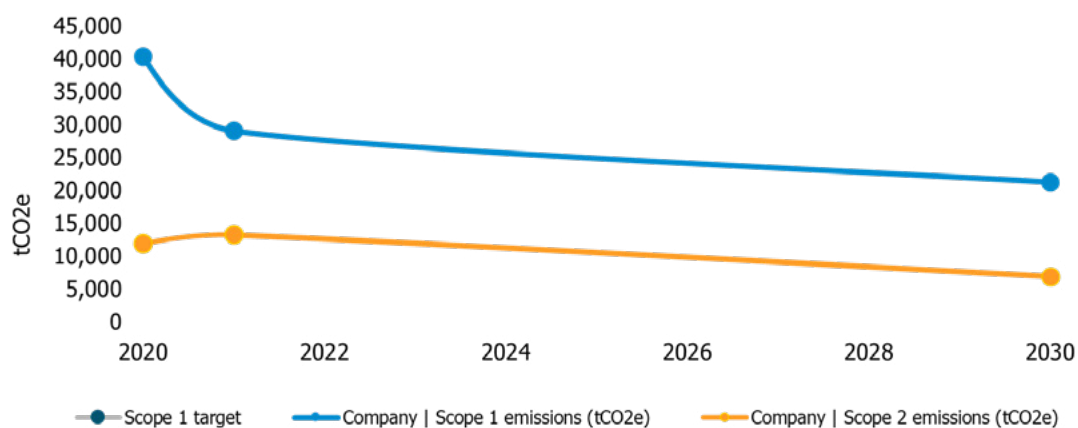
CLIMATE SCENARIO ALIGNED WITH A 1.5 DEGREE TEMPERATURE GOAL

We can set emission reduction targets and direct investments toward a low-carbon economy by accounting for carbon emissions and ensuring that our activities and related emissions contribute to a global temperature increase of no more than 1.5 degrees Celsius. The Intergovernmental Panel on Climate Change, or IPCC, has set this as the safe limit for temperature increases from pre-industrial levels.



| SCOPE | Base year emissions – mtCO ₂ e (2020) | Most Recent Year (2021) | Target year emissions (2028) | % Reduction target | Status |
|-----------|--|-------------------------|------------------------------|--------------------|--------------|
| SCOPE 1 | 40,388 | 29,085 | 23,039 | 43% | 65% Achieved |
| SCOPE 2 | 11,920 | 13,233 | 7,951 | 34% | 0% Achieved |
| SCOPE 1+2 | 52,308 | 42,318 | 30,954 | 41% | 47% Achieved |
| SCOPE 3 | 42,546 | 35,464 | 28,251 | 34% | 50% Achieved |

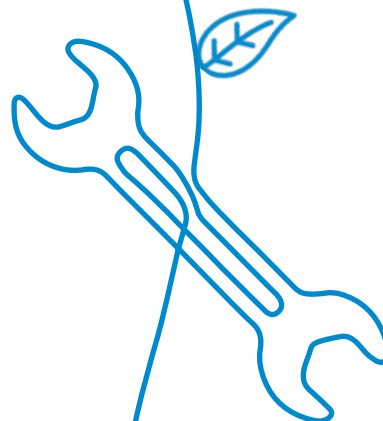
Absolute emissions targets | 1.5C









XI DECARBONIZATION PLAN

DECARBONIZATION PLAN

Ghabbour Auto has made a commitment to decarbonization as climate change and global warming have become a global issue affecting not only humanity but also the environment. As GHG emissions from industrial and other human-induced activities rise, it is more important than ever to restore the ecological balance, which is why GB Auto has developed a strategy and GHG emission reduction plan that includes various sustainability solutions and carbon emissions offsetting schemes in order to achieve Carbon Neutrality by 2050.



| ACTION AREA | | TARGET |
|----------------------------------|---|---|
| Energy |  | <ul style="list-style-type: none"> Implementing green electricity and renewable energy and investing in renewable energy projects Energy monitoring systems. Using energy efficient lighting system. 100% facilities certified according to ISO 50001. Conduct annual climate risk assessment. |
| Wastewater and water consumption |  | <ul style="list-style-type: none"> Reduce water consumption in office buildings and factories by installing sensor operated sinks with low flow fittings. Implementing of grey water treatment in facilities and reaching zero wastewater |
| Transportation and distribution |  | <ul style="list-style-type: none"> Sustainable and low-carbon fleet, encouraging employees traveling to work via their private cars to reduce using their cars. |
| Waste disposal and recycling |  | <ul style="list-style-type: none"> Conducting corporate waste management system Setting up separate waste bins for different types of waste in all GB auto facilities, and ensuring collection and recycling Adapting the concept of reducing the use of raw materials, Out-sourced materials renewable recycled or recyclable. zero waste from operations |
| Refrigerant consumption |  | <ul style="list-style-type: none"> Establish a full-scale system to purchased refrigerants tracking their quantities, types and locations Using more ecofriendly refrigerants such as R-1234yf, R-152a or R-744 if applicable |
| Corporate sustainability |  | <ul style="list-style-type: none"> Publish internal guidelines for integrating sustainability into decision-making by 2023 Conduct a review of corporate policies, standards, instructions, plans and procedures for capacity to effectively manage material ESG topics 100% of managers trained on ESG topics by 2025 |

XIII CONTRIBUTION TOWARDS A GREEN ENVIRONMENT





CONTRIBUTION TOWARDS A GREEN ENVIRONMENT

In global alignment to the Sustainable Development Goals (SDGs), Egypt has developed its own Sustainable Development Strategy (SDS) – the Egypt Vision 2030. The SDS addresses the country's unique requirements and challenges and is broken down into eight goals addressing social, economic and environmental dimensions. All eight goals correspond to the 17 SDGs.

Ghabbour Auto's current goals and targets contribute to the SDGs & Egypt Vision 2030 on both the economic as well as the environmental dimensions of the sustainable development of Egypt and its infrastructure.



In an ambitious yet dedicated goal to ensure our sustainability momentum and transparency, Ghabbour Auto will be disclosing in accordance to the Carbon Disclosure Project (CDP) for the second time in 2021. The CDP is a questionnaire aimed at assessing a company's water, environment or forests (deforestation) impact and provides a scoring accordingly.



The Task Force on Climate-related Financial Disclosure (TCFD) is a globally recognized climate related disclosure platform focusing on the adoption and consideration of financial risks and opportunities related to climate change. The TCFD reporting is in alignment with the CDP Questionnaire. For further information kindly reference our [2021 Sustainability Report](#).

SDG



EGYPT VISION 2030



SDG



EGYPT VISION 2030





CLEAN ENERGY

Ghabbour Auto is currently in the process of changing its factories' consumption to greener and more sustainable solutions. Along with shifting towards natural gas where applicable instead of Diesel, we aim at having our solar energy plants up and running by 2023.



WATER MANAGEMENT

With the aim of achieving net-zero liquid discharge – a closed loop water usage and treatment system, GB Auto is in the process of implementing a wastewater treatment system at El Sadat Plant to reuse treated water within our manufacturing process. Excess water is to be used in the irrigation of our green areas surrounding the factory.



CLEAN ENERGY VEHICLES

In efforts to transform the mobile sector in Egypt and to allow for a streamless conversion to green vehicles, we are planning on introducing a new variety of natural gas vehicles.



GB AUTO ESG POLICY

In 2021, GB Group has published its first ESG Strategy 2022-2030 covering four main pillars: Good Governance, Vibrant Business, Livable Planet and Thriving Humanity. This strategy aims at ensuring the sustainable and transparent operation of GB Group. Throughout the policy, different risks are being addressed and mitigated with focus on the green recovery, circularity, sustainable mobility and climate and energy. The fourth pillar (Livable Planet) goes hand-in-hand with GB Auto's carbon footprint assessment

SDG



EGYPT VISION 2030



SDG



EGYPT VISION 2030



SDG



EGYPT VISION 2030



SDG



EGYPT VISION 2030



ANNEX

XIII

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| Calculation Methodology | 43 |

DEFINITIONS & TERMINOLOGY

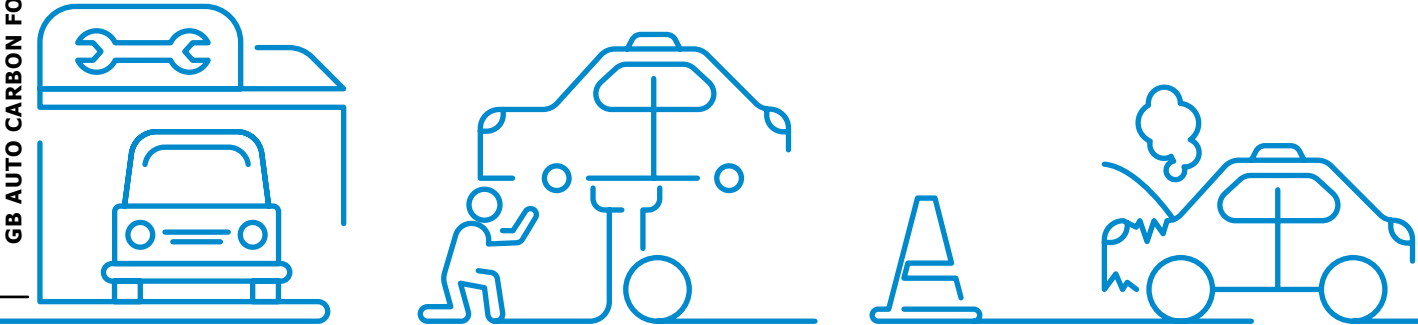
| | |
|-------------------------------------|--|
| Base year | A base year is a reference year in the past with which current emissions can be compared. In order to maintain the consistency and comparability with future carbon footprints, base year emissions need to be recalculated when structural changes occur in the company that change the inventory boundary (such as acquisitions or divestments). If no changes to the boundaries of the inventory happen, the base year is not adjusted. |
| Carbon Footprint | The amount of Carbon Dioxide that an individual, group, or organization lets into the atmosphere in a certain time frame. |
| CO₂ Sequestration | The capture and secure storage of carbon that would otherwise be emitted to or remain in the atmosphere. |
| CO₂e | Carbon dioxide equivalent or CO ₂ equivalent, abbreviated as CO ₂ e, is a metric used to compare the emissions from various GHGs on the basis of their global-warming potential (GWP), by converting amounts of other gases to the equivalent amount of carbon dioxide with the same global warming potential. |
| Direct Emissions | Greenhouse gas emissions from facilities/sources owned or controlled by a reporting company, e.g., generators, blowers, vehicle fleets. |
| Emission Factors | Specific value used to convert activity data into greenhouse gas emission values. |
| Fugitive Emissions | Fugitive emissions are emissions of gases or vapors from pressurized equipment due to leaks and other unintended or irregular releases of gases, mostly from industrial activities. As well as the economic cost of lost commodities, fugitive emissions contribute to air pollution and climate change. |
| Well-to-Tank Emissions | Well-to-Tank emissions, also known as upstream or indirect emissions, is an average of all the GHG emissions released into the atmosphere from the production, processing and delivery of a fuel |
| Stationary Combustion | Stationary fuel combustion sources are devices that combust solid, liquid, or gaseous fuel, generally for the purposes of producing electricity, generating steam, or providing useful heat or energy for industrial, commercial, or institutional use |
| Mobile Combustion | Mobile combustion are emissions from the transportation of materials, products, waste, and employees resulting from the combustion of fuels in company owned or controlled mobile combustion sources (e.g., cars, trucks, buses, trains, airplanes, ships, etc.). |
| GHG Protocol | Greenhouse Gas Protocol – uniform methodology used to calculate the carbon footprint of an organization. |
| GWP | Global Warming Potential – an indication of the global warming effect of a greenhouse gas in comparison to the same weight of carbon dioxide. |



Reported by: Greenpeace
Report Year: 2020

DEFINITIONS & TERMINOLOGY

| | |
|-------------------------|---|
| HVAC | HVAC (heating, ventilating, and air conditioning; also heating, ventilation, and air conditioning) is the technology of indoor and vehicular environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality. |
| Indirect Emissions | Greenhouse gas emissions from facilities/sources that are not owned or controlled by the reporting company, but for which the activities of the reporting company are responsible, e.g. purchasing of electricity. |
| Kyoto protocol | It operationalizes the United Nations Framework Convention on Climate Change by committing industrialized countries to limit and reduce greenhouse gases (GHG) emissions in accordance with agreed individual targets. |
| Operational boundary | Determination of which facilities or sources of emissions will be included in a carbon footprint calculation. |
| Organizational boundary | Determination of which business units of an organization will be included in a carbon footprint calculation |
| Refrigerant | A refrigerant is a substance or mixture, usually a fluid, used in a heat pump and refrigeration cycle |
| Renewable Energy | Energy from a source that is not depleted when used, such as wind or solar power. |
| Scope 1 | Emissions from sources that are owned or controlled by the reporting entity (i.e. any owned or controlled activities that release emissions straight into the atmosphere). |
| Scope 2 | Emissions associated with the consumption of purchased electricity, heat or steam from a source that is not owned or controlled by the company. |
| Scope 3 | Emissions resulting from other activities. This includes transport fuel used by air business travel, and employee-owned vehicles for commuting to and from work; emissions resulting from courier shipment; emissions from waste disposal; ... etc. |



LIST OF INCLUDED AND EXCLUDED ORGANIZATIONAL BOUNDARIES

| | 2021 Facilities | 2020 | Rationale | 2021 | Rationale |
|---------|-----------------------------|------|-----------|------|-----------|
| SC-01 | Abu Rawash - ITAMCO 01 | ✓ | | ✓ | |
| SC-02 | Ismailia | ✓ | | ✓ | |
| SC-03 | Katamia - Ring Road | ✓ | | ✓ | |
| SC-04 | Qaliub k7 | ✓ | | ✓ | |
| SC-05 | Merghem - Hyundai | ✓ | | ✓ | |
| SC-06 | Bosch Building - Qalyoub K3 | ✓ | | ✓ | |
| SC-07 | Factory - Qaliub k16 | ✓ | | ✓ | |
| SC-08 | Itamco 2 | ✓ | | ✓ | |
| SC-09 | Itamco 3 | ✓ | | ✓ | |
| SC-10 | Al Ameria | ✓ | | ✓ | |
| SC-11 | Raml Station | ✓ | | ✓ | |
| SC-12 | Assiut | ✓ | | ✓ | |
| SC-13 | Hurghada - Hyundai | ✓ | | ✓ | |
| SC-14 | Hurghada - Volvo | ✓ | | ✓ | |
| SC-15 | Mazda Plaza - K32 | ✓ | | ✓ | |
| SC-16 | Suez | ✓ | | ✓ | |
| SC-17 | Sharm El Sheikh - Hyundai | ✓ | | ✓ | |
| SC-18 | Sohag | ✓ | | ✓ | |
| SC-19 | Menya - Hyundai | ✓ | | ✓ | |
| SC-20 | Portsaid | ✓ | | ✓ | |
| SC-21 | Zagazig | ✓ | | ✓ | |
| SC-22 | Tanta | ✓ | | ✓ | |
| SC-23 | Obour | ✓ | | ✓ | |
| SC-24 | Luxour | ✓ | | ✓ | |
| SC-25 | Gesr El Suez | ✓ | | ✓ | |
| SC | Iraq Service center | ✓ | | ✓ | |
| FC-01 | El Sadat Plant | ✓ | | ✓ | |
| FC-02 | Badr Plant | ✓ | | ✓ | |
| FC-03 | Prima Plant | ✓ | | ✓ | |
| FC-04 | CITI factory - toktok | ✓ | | ✓ | |
| FC-05 | Polo Factory - Buses | ✓ | | ✓ | |
| Admin | GB Lease | ✓ | | ✓ | |
| Admin | GB Haram + Drive | ✓ | | ✓ | |
| Admin | GB Raseedy | ✓ | | ✓ | |
| Admin | GB Tasaheel + Mashroey | ✓ | | ✓ | |
| Admin | GB Capital | ✓ | | ✓ | |
| Admin | Iraq Office building | ✓ | | ✓ | |
| GK - WH | Baghdad Awareeg WH | ✓ | | ✓ | |
| GK - WH | El Dora WH | ✓ | | ✓ | |
| GK - SR | Baghdad 62 SR | ✓ | | ✓ | |
| GK - SC | Baghdad -Orisat SC | ✓ | | ✓ | |
| GK - SC | Basra SC | ✓ | | ✓ | |
| GK - SR | Baghdad Mall | ✓ | | ✓ | |
| GK - SC | Erbil SC | ✓ | | ✓ | |
| GK - SR | Douhok SC | ✓ | | ✓ | |
| GK - SC | Douhok SR | ✓ | | ✓ | |
| GK - SR | Kwer WH | ✓ | | ✓ | |
| GK - WH | Solimania SC | ✓ | | ✓ | |

LIST OF INCLUDED AND EXCLUDED ORGANIZATIONAL BOUNDARIES

| | 2021 Facilities | 2020 | Rationale | 2021 | Rationale |
|-------------|----------------------------|------|--------------------------------------|------|---|
| GK - SC | Douhok SR | ✓ | | ✓ | |
| GK - SR | Kwer WH | ✓ | | ✓ | |
| GK - WH | Solimania SC | ✓ | | ✓ | |
| GK - SC | Solimania SR | ✓ | | ✓ | |
| GK - SR | GK AL Mansour SE | ✓ | | ✓ | |
| GK - SR | Basra SR | ✓ | | ✓ | |
| GK - SR | Baghdad - Bayaa S.R | ✓ | | ✓ | |
| GK - SR | Baghdad - Mehion Outlet | ✓ | | ✓ | |
| GK - Outlet | Baghdad -Souq Outlet | ✓ | | ✓ | |
| GK - Outlet | Baghdad -El Mansour Outlet | ✓ | | ✓ | |
| GK - Outlet | Erbil Outlet | ✓ | | ✓ | |
| GK - Outlet | Baghdad Awareeg | ✓ | | ✓ | |
| GQ - WH | Al Najaf | ✓ | | ✓ | |
| GQ - WH | Al Basraa - Al Ashar | ✓ | | ✓ | |
| GQ - Land | Bajaj Building | ✓ | | ✓ | |
| GQ - SC,SR | Al Hela | ✓ | | ✓ | |
| GQ - SC,SR | Al Amarah | ✓ | | ✓ | |
| GQ - SC,SR | Al Najaf | ✓ | | ✓ | |
| GQ - SC,SR | Karblaa | ✓ | | ✓ | |
| GQ - SC,SR | Al Hayania | ✓ | | ✓ | |
| GQ - SC,SR | Abu Dsheer | ✓ | | ✓ | |
| GQ - SC,SR | Al Basraa - Al Ashar | ✓ | | ✓ | |
| GQ - SC,SR | Al Samawah | ✓ | | ✓ | |
| GQ - SC,SR | Al Mahmoudya | ✓ | | ✓ | |
| GQ - SC,SR | Al Najaf | ✓ | | ✓ | |
| GQ - SC,SR | Al Basraa - Um Qaser | ✓ | | ✓ | |
| GQ - SC,SR | Al Dewanya | ✓ | | ✓ | |
| GQ - SC,SR | Al Najaf | ✓ | | ✓ | |
| GQ - SC,SR | Al Bayaa | ✓ | | ✓ | |
| GQ - SC,SR | New SR - Al Mahmoudya | ✗ | Facility was not established in 2020 | ✓ | |
| GQ - SC,SR | New SR - Karbla | ✗ | Facility was not established in 2020 | ✗ | No consumption data was available regarding the facility. |
| GQ - SC,SR | Spare Part Outlet Baghdad | ✗ | Facility was not established in 2020 | ✓ | |



DATA SOURCES AND QUALITY

All of the information used to compute the various footprints comes from our database. The data quality has been evaluated and presented below, with data from each business sector evaluated independently to enable for better analysis and display of resolution and further explanations. The most used types of data are:

- **Primary data:** data taken from documents that are directly linked to the assessment, such as electricity invoices, to calculate emissions caused due to electricity.
- **Secondary data:** such as databases, studies, and reports.
- **Assumptions:** assumptions made based on internationally recognized standards and studies.



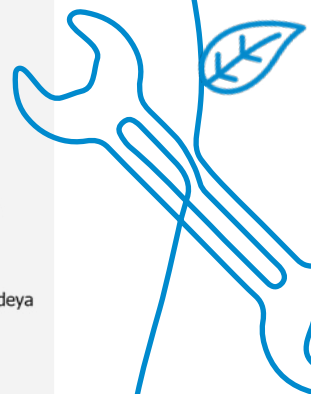
CFP Data quality from 1/1/2020 to 31/12/2020 (Base year)

| SCP | ACTIVITY | DATA | RESOLUTION | NOTES |
|-----|---|--|---|---|
| 1 | Fuel burning – Diesel | 2,583,442.37 L | Yearly diesel consumption per facility – Liters/year | - |
| 1 | Fuel burning – Natural Gas | 84,055.04 m ³ | Monthly consumption in m ³ | - |
| 1 | Fuel burning – Owned vehicles (including employees commuting) - business travel | 247,865.35 L 1,511,111 km (Employees commuting) | Yearly diesel consumption per facility – Liters/year Average distance traveled per month for employees commuting | <p>Owned vehicles: The data is correct and accurate, but it should be provided for each facility separately.</p> <p>Employees commuting: 1. Emissions were calculated based on total consumed fuel for transportation per liter and not per p.km due to lack of data (e.g. no. of employees transported per vehicle, no. of trips per month per vehicle type etc.) 2. Emissions from outsourced buses were excluded due to lack of data 3. Average of the of Km available for allowance was used to calculate the average total distance travelled per year</p> |
| 1 | Fuel burning - Upstream and downstream transportation | 4,866,254 L | Yearly fuel consumption and distance travelled per vehicle – liters and distance travelled/vehicle and year | The data is correct and accurate, but it should be provided for each facility separately. |
| 1 | Refrigerant leakage | 6,788.40 kg | Total yearly consumption per type of refrigerant in kg | The data is correct and accurate, but it should be provided for each facility separately. |
| 2 | Purchased Electricity | 26,963,327.01 kWh | Consumption per month – kWh/month | <p>1. Iraq's electricity EF was based on a 2011 value (latest value available) 2. Average tariff value was used to calculate the consumption in kWh for the entire year (normally, tariff values increase every 6 months)</p> |
| 3 | Purchased goods | 44.21 ton | Yearly quantities of purchased goods – kg/year | The data is correct and accurate, but it should be provided for each facility separately. |
| 3 | Water consumption | 634,166.43 m ³ | Monthly consumption | <p>1. Assumed the electrical energy needed to supply and treat the water in Iraq is the same as that in Egypt 2. For facilities with no data, an average of the facilities of the same type was used, in proportion to the area of that facility 3. Assumed same water tariff in Iraq as Egypt, to calculate the emissions from Iraq SC and Iraq office building</p> |
| 3 | Imports | 2,161,270,839.45 t.km | Weight of imports and distance of shipment from port to port was provided | All the containers (20" and 40") were assumed to be loaded with the maximum capacity |
| 3 | Solid Waste disposal | 8,076.48 tons | Total waste quantity in tons per type | The data did not include the waste resulted from employees and workers during the operation of each facility. |
| 3 | Hotel stay | 2,006 nights | Number of nights per trip | - |
| 3 | Air travel | 6,271 km | Total distance traveled per flight (short-long haul) | - |



CFP Data quality from 1/1/2021 to 31/12/2021

| SCP | ACTIVITY | DATA | RESOLUTION | NOTES |
|-----|---|---------------------------|---|---|
| 1 | Fuel burning – Diesel | 903,207.17 L | Yearly diesel consumption per facility – Liters/year | Values provided as average "Diesel oil consumption/month in liter" for prima, sadat and badr (no indication whether this is used for transportation or no)/ average data provided was not used instead monthly data provided was used for Iraq (GQ) information is not satisfactory as not all months were covered for the reported information |
| 1 | Fuel burning – Natural Gas | 818,351 m ³ | Monthly consumption in m ³ | Data was provided for Prima Plant only; 2020 data was taken for the rest of the facilities. |
| 1 | Fuel burning – Owned vehicles (including employees commuting) - business travel | 1,749,134.74 L | Yearly diesel consumption per facility – Liters/year Average distance traveled per month for employees commuting | The data is accurate, but it should be provided for each facility separately. Employees commuting was calculated as part of this category. |
| 1 | Fuel burning - Upstream and downstream transportation | 3,920,579 L | Total yearly consumption per type of transportation | - |
| 1 | Refrigerant leakage | 5,401 kg | Total yearly consumption per type of refrigerant in kg | Data was only provided for Iraq and type of refrigerant was not mentioned |
| 2 | Purchased Electricity | 30,518,958.33 kWh | Consumption per month – kWh/month | Not all facilities provided data. Karabla and Mahmoudeya closed for GQ Iraq |
| 3 | Purchased goods | 35.98 ton | Yearly quantities of purchased goods – kg/year | - Data for GQ was provided without unit; therefore, it was not accounted for in this category. - GK data was provided as an average in KG and the average was assumed as avg yearly not monthly. - Egypt values were provided like last year and therefore the CFP 2020 values were taken. |
| 3 | Water consumption | 493,401.85 m ³ | Monthly consumption | Values provided in LE for Egypt and assumed m ³ for Iraq like what was assumed last year/ like the values provided in m ³ for last year |
| 3 | Imports | 157,096 t.km | Weight of imports and distance of shipment from port to port was provided | - |
| 3 | Solid Waste disposal | 113,758 ton | Total waste quantity in tons per type | - The data did not include the waste resulted from employees and workers during the operation of each facility. - Data provided only for factories as sold products. - Hazardous waste was not accounted for in this category. |
| 3 | Hotel stay | 746 nights | Number of nights per trip | International hotel stay was not provided within the data therefore excluded from calculation. |
| 3 | Air travel | 605,230.34 km | Total distance traveled per flight (short-long haul) | - |



RELEVANCY AND EXCLUSIONS

EXCLUDED OPERATIONS AND ACTIVITIES

The following section describes the GHG emission sources and sinks that were excluded from GB Auto’s GHG inventory due to data not being available, or not technically feasible to obtain or for data whose emission quantification is beyond GB Auto’s operation and control. The exclusion rationale per category has also been specified.



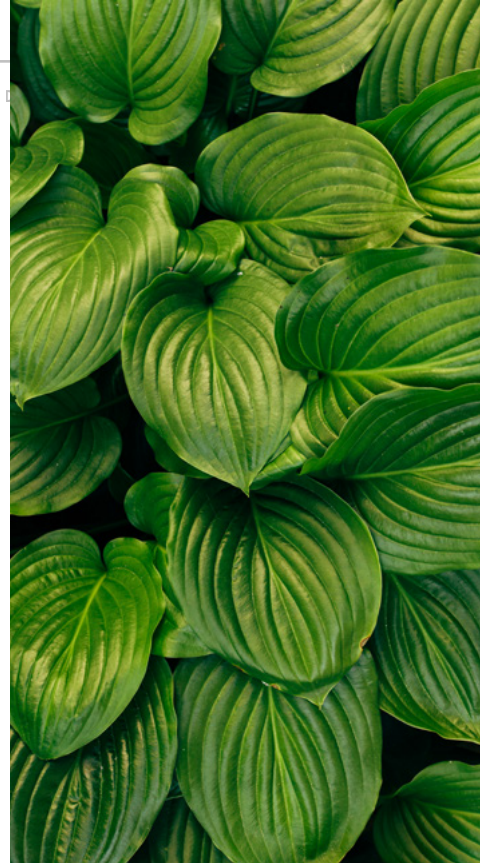
SCOPE 3

| # | ACTIVITY | DESCRIPTION | 2020 - BY (mtCO ₂ e) | 2021 (mtCO ₂ e) | STATUS |
|----|--|--|------------------------------------|-------------------------------|------------------------------------|
| 1 | Purchased goods and services | Includes office supplies, paper consumption, face masks etc. | 41 | 33 | Relevant, calculated |
| 2 | Capital goods | Includes the emissions from embodied carbon in GB Auto's owned assets, buildings, etc. | - | - | Relevant, not yet calculated |
| 3 | "Fuel and energy-related activities (not included in scope 1 and 2)" | Emissions from energy consumed for municipal water supply and wastewater treatment, as well as WTT from fuel burning and transportation. | 7,889 | 5,166 | Relevant, calculated |
| 4 | Upstream transportation and distribution | Only emissions from imports are included in this category, transportation of raw material and goods to the factories takes place using GB Auto's owned fleet. | 34,321 | 29,929 | Relevant, calculated |
| 5 | Waste generated in operations | Includes emissions from the transportation of Solid waste to recycling facilities | 172 | 190 | Relevant, calculated |
| 6 | Business travel | Emissions from air travel and hotel stays are included under this category, other forms of business travel take place using GB Auto's owned cars; hence, under scope 1 (fuel burning - owned cars) | 123 | 145 | Relevant, calculated |
| 7 | Employee commuting | Calculated under scope 1, as commuting takes place using GB Auto's owned fleet/ buses | - | - | Not relevant, explanation provided |
| 8 | Upstream leased assets | We do not have any upstream leased assets. | - | - | Not relevant, explanation provided |
| 9 | Downstream transportation | Calculated under scope 1, as the transportation of the final products from the factories to the warehouses, and/or show rooms takes place using GB Auto's owned fleet | - | - | Not relevant, explanation provided |
| 10 | Processing of sold products | This category is not relevant to GB Auto's business and has therefore been excluded. | - | - | Not relevant, explanation provided |
| 11 | Use of sold products | This category is not yet embraced in GB Auto's boundaries but could include the fuel burning emissions of the sold vehicles. | - | - | Relevant, not yet calculated |
| 12 | End of life treatment of sold products | This category is not yet embraced in the calculations but could include end of life treatment of sold spare parts. | - | - | Relevant, not yet calculated |
| 13 | Downstream leased assets | This category is not relevant to GB Auto's business and has therefore been excluded. | - | - | Not relevant, explanation provided |
| 14 | Franchises | This category is not relevant to GB Auto's business and has therefore been excluded. | - | - | Not relevant, explanation provided |
| 15 | Investments | It is expect to identify and evaluate the investments-related emissions within the upcoming years. | - | - | Relevant, not yet calculated |

CALCULATION METHODOLOGY

CARBON FOOTPRINT EQUATIONS

The following section describes the GHG emission sources and sinks that were excluded from GB Auto's GHG inventory due to data not being available, or not technically feasible to obtain or for data whose emission quantification is beyond GB Auto's operation and control. The exclusion rationale per category has also been specified.



SCOPE I: DIRECT EMISSIONS

STATIONARY COMBUSTION



Diesel and natural gas are consumed by our buildings, factories, service centers and showrooms. The total consumption of diesel for each facility was recorded monthly in both liters and amount of money purchased. On the other hand, natural gas is used by most of the service centers and few factories.

Since it is directly used by the company, the emissions resulting from the stationary consumption were accounted for under scope 1.



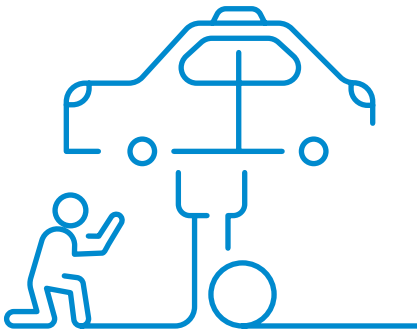
Fuel burning – Diesel Emissions (mtCO₂e) = Fuel consumption (L) x EF (mtCO₂e/ L)

Fuel burning – Natural gas Emissions (mtCO₂e) = Fuel consumption (m³) x EF

MOBILE COMBUSTION



Owned vehicles fuel burning falls under scope 1 direct emissions. This included all the owned vehicles used to transport the managers, employees, upstream-downstream transportation, etc. The fuel type and annual consumption in liters for each vehicle type was retrieved from our database. Since the data of fuel type and fuel consumption were available, these were utilized to estimate the emissions occurring from owned vehicles.



Owned Vehicles Emissions (mtCO₂e) = Fuel consumption (L) x EF (mtCO₂e/ L)

FUGITIVE EMISSIONS



Refrigeration fluids are fluids which are used to cool a space in refrigeration cycles. Each year, an amount of refrigerants is used to re-charge the cooling systems used in each building in order to compensate for the leakage that happened during the operating year. The refrigerant type used in each building is different and all its related data was found in our database.

Refrigerants Leakage Emissions (mtCO₂e) = Refrigerant leakage (Kg) x EF (mtCO₂e/Kg)



SCOPE 2: INDIRECT EMISSIONS

PURCHASED ELECTRICITY



Emissions from purchased electricity are the product of the national grid emission factor and the annual electricity consumption of each facility.

Purchased Electricity falls under Scope 2 (Indirect emissions). The electricity consumption includes all the operating buildings. The monthly electricity consumed at the facilities, was retrieved from the electricity bills in both kWh and amount of money purchased (EGP). Therefore, the total electricity consumption of the fiscal year was calculated using the formula below:

$$\text{Purchased Electricity Emissions (mtCO}_2\text{e)} = \text{Electricity Consumption (kWh)} \times \text{EF (mtCO}_2\text{e/kWh)}$$

SCOPE 3: INDIRECT EMISSIONS

PURCHASED GOODS AND SERVICES



OFFICE SUPPLIES, MASKS, MARKETING MATERIALS, ETC.

Purchased goods are the commodities used by the different sectors. For GB Auto's facilities, office supplies including ink, copy paper, envelopes, files, cardboard archive boxes etc. as well as hygiene and disposal items such as face masks, paper cups and plastic bags were included in the purchased goods. Items that did not have clear specifications were estimated where applicable using common market characteristics and specifications, and otherwise excluded.

The yearly amounts of purchased goods per type have been retrieved from the internal data recordings, as units of items. The emissions were obtained by multiplying the emission factor per unit by the number of items.

$$\text{Purchased Goods Emissions (mtCO}_2\text{e)} = \sum \text{quantity of item (units)} \times \text{EF of each item (mtCO}_2\text{e/unit)}$$

FUEL AND ENERGY-RELATED ACTIVITIES (NOT INCLUDED IN SCOPE 1 AND 2)



WELL-TO-TANK (WTT) EMISSIONS

WTT emissions are those that result from the production of a fuel, including resource extraction, initial processing, transportation, fuel production, distribution and marketing, and delivery into a consumer vehicle's fuel tank. WTT emissions were taken into consideration to reflect the full range of climatic impacts from fuel-burning activities.

All fuel burning activities, such as diesel & natural gas consumed by our buildings, distribution fleet and owned vehicles, internal and external courier shipment were included in WTT emissions.

For each amount and type of fuel burned, the general formula was applied to determine the relevant emissions.

$$\text{WTT Emissions (mtCO}_2\text{e)} = \text{Fuel consumption (unit)} \times \text{WTT EF (mtCO}_2\text{e/unit)}$$



WATER USAGE & WASTEWATER TREATMENT

The emission factor for water supply and wastewater treatment is calculated by using a conversion formula, provided by Holding Company for Water and Wastewater (HCWW). The emissions are based on the amount of energy consumed in each process. The emission factors for water supply and wastewater treatment are accordingly calculated by multiplying the conversion factor by the electricity emission factor. At the same time, a unit analysis is performed to make sure the units are conforming.

$$\text{Energy Consumption (Wh)} = \text{Water supply/ wastewater (m}^3\text{)} \times \text{Conversion formula (Wh/m}^3\text{)}$$

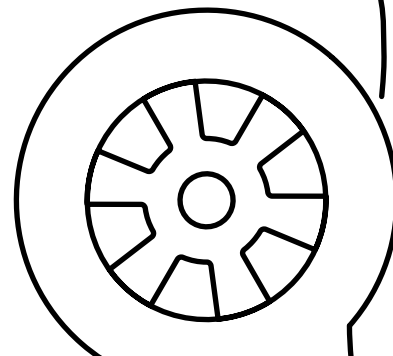
$$\text{Water Supply and Treatment (mtCO}_2\text{e)} = \text{Energy Consumption (kWh)} \times \text{EF (mtCO}_2\text{e/kWh)}$$

UPSTREAM TRANSPORTATION AND DISTRIBUTION



IMPORTS

Imports are accounted for under scope 3 indirect emissions, the weight of each shipment and the distance from port to port were both recorded in our database, and the ton kilometers (t.km) were calculated by multiplying the distance travelled (km) by the entire weight of the shipment, and then multiplying by the emission factor.



$$\text{Fuel burning Emissions (mtCO}_2\text{e)} = \text{Distance (t.km)} \times \text{EF (mtCO}_2\text{e/t.km)}$$

WASTE GENERATED IN OPERATIONS



SOLID WASTE DISPOSAL

Solid waste disposal falls under scope 3 (indirect emission). Waste Generated was calculated as the sum (in tons) of waste diverted plus waste disposed. The quantities for the waste were retrieved from our data recording for the amounts of waste generated annually. The emissions were calculated by multiplying the quantity in tons by the corresponding emission factor.

$$\text{Solid waste disposal Emissions (mtCO}_2\text{e)} = \text{Quantity (ton)} \times \text{EF (mtCO}_2\text{e/ton)}$$



BUSINESS TRAVEL



HOTEL STAYS

For each of the hotel stays, dates, location, no. of hotel rooms and nights were obtained from our data records. All hotel stays are during 2021, with minimal hotel stays during 2020. DEFRA is providing the emission factors per hotel night for each country as UK and non-UK countries. In those cases where the country of the hotel stay is not available in DEFRA, an average value of all non-UK values has been used to approximate the emissions.



Hotel stay emissions (mtCO₂e) = Number of nights x EF (KgCO₂e/night)/1000



AIR TRAVEL + WELL TO TANK EMISSIONS

In 2020, no international flights occurred, only domestic flights. As for 2021, both international and domestic flights took place. GB Auto’s data records provided data of flight routes, dates, and no. of tickets. The flight distances have been obtained from airport distances calculator. The emissions factors were obtained from DEFRA as average passenger, flights to/from non-UK countries.

Air travel emissions (KgCO₂e) = Distance travelled per passenger (p.km) x EF (mtCO₂e/ p.km)

Air travel (WTT) emissions (KgCO₂e) = Distance travelled per passenger (p.km) x EF (mtCO₂e/ p.km)





IXX QUALITY ASSURANCE

QUALITY ASSURANCE STATEMENT

To Ghabbour Auto Board of Directors',

We have been appointed by GB Auto to conduct GHG calculations pertaining to GB Auto's operational activities in Egypt and Iraq for the period from 1st of January 2020 to the 31st of December 2021. The Scope covered GB Auto's operations in their owned facilities across Egypt and Iraq; this included service centers, showrooms, factories, admin buildings, warehouses, and outlets.

AUDITOR'S INDEPENDENCE AND QUALITY CONTROL

We adhere to integrity, objectivity, competence, due diligence, confidentiality, and professional behavior. We maintain a quality control system that includes policies and procedures regarding compliance with ethical requirements, professional standards, and applicable laws and regulations.

AUDITOR'S RESPONSIBILITY

In conducting the carbon footprint calculations, we have adopted the Greenhouse Gas Protocol Guidelines, IPCC Guidelines for Greenhouse Gas Inventories, and ISO 14064-1:2019 specification with guidance at the organization level for quantification and reporting of GHG emissions and removals.

It is our responsibility to express a conclusion about the quality and completeness of the primary data collected/ provided by GB Auto. We have performed the following quality assurance/ quality control tasks:

- Several rounds of data requests were performed whenever the received information was not clear;
- All data presented in this report were provided by the reporting entity and revised and completed by our technical teams;
- For data outliers, meetings were held to investigate the accuracy of the data and new data was provided when requested;
- Any gaps, exclusions and/or assumptions have been clearly stated in the report.

CONCLUSION

Based on the aforementioned procedures, nothing has come to our attention that would cause us to believe that GB Auto's raw data used in the GHG calculations have not been thoroughly collected, verified and truly represent GB Auto's resource consumption in 2020 and 2021 related to all categories/aspects identified in this report. We do not assume and will not accept responsibility to anyone other than GB Auto for the provided assurance and conclusion.

Abdelhamid Beshara



ABOUT MASADER

Masader is an innovative interdisciplinary consulting, design, and engineering sustainability firm based in Cairo, aiming at leveraging positive impact across the MENA region and globally. It specializes in Resource Efficiency, Sustainable Management of Natural Resources, and Integrated Sustainability Solutions. Since 2015, Masader has led 100+ projects across the areas of energy, environment, climate change & carbon footprint, circular economy, green building (LEED), as well as corporate sustainability strategies, reporting, and certification.

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Dr. Abdelhamid Beshara, Founder and Chief Executive Officer
MASADER, ENVIRONMENTAL & ENERGY SERVICES S.A.E CAIRO,
October 2022

