

# ■IB Carbon Footprint Report

For the year 2018

Heliopolis, Nasr City, Down Town & Maadi, New Cairo, Canal & Industrial ports, Delta & Upper Egypt, Touristic, Alexandria and Giza zones.

Prepared by







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| Scope 3_   |                            | AND ENER |
|            |                            |          |

# I. ABBREVIATIONS & ACRONYMS

| AC              | Air Conditioner                                  |
|-----------------|--|
| вти             | The British Thermal Unit                         |
| BUR             | Biennial Update Report                           |
| CDD             | Cooling Degree Days                              |
| CDM             | Clean Development Mechanism                      |
| CDP             | Carbon Disclosure Project                        |
| CH <sub>4</sub> | Methane  |
| CO <sub>2</sub> | Carbon Dioxide                                   |
| CO₂e            | Carbon Dioxide Equivalent                        |
| DEFRA           | Department for Environment, Food & Rural Affairs |
| EF              | Emission Factor                                  |
| EPA             | Environmental Protection Agency                  |
| FTE             | Full Time Equivalent                             |
| GHG             | Greenhouse Gases                                 |
| GWP             | Global Warming Potential                         |
| HCWW            | Holding Company for Water and Wastewater         |
| НГО             | High Density Fuel Oil                            |
| HVAC            | Heating, Ventilation and Air Conditioning        |
| IPCC            | Intergovernmental Panel on Climate Change        |
| IR              | Infrared   |
| kWh             | Kilowatt hour                                    |
| Mt              | Metric Tons                                      |
| NCV             | Net Calorific Value                              |
| pKm             | Passenger Kilometer                              |
| SDG             | Sustainability Development Goal                  |
| WTT             | Well to Tank                                     |
|                 |  |

# II. KEY DEFINITIONS

| Baseline year      | A historical year used to compare preceding year's emissions.  |
|--------------------|--|
| Carbon Footprint   | The amount of Carbon Dioxide that an individual, group, or organization lets into the atmosphere in a certain time frame.  |
| CO₂e               | Carbon dioxide equivalent – standardization of all greenhouse gases to reflect the global warming potential relative to carbon dioxide.  |
| Direct Emissions   | Greenhouse gas emissions from facilities/sources owned or controlled by a reporting company, e.g. generators, blowers, vehicle fleets.   |
| 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. |
| Emission Factors   | Specific value used to convert activity data into greenhouse gas emission values.  |
| Refrigerant        | A refrigerant is a substance or mixture, usually a fluid, used in a heat pump and refrigeration cycle  |





# III. EXECUTIVE SUMMARY

Climate change has been classified as one of the major challenges facing nations, governments, businesses and citizens over future decades. It has implications for both human and natural systems and could lead to considerable changes in resource use, production and economic activity. Accordingly, international, regional, national and local initiatives are being developed and implemented to limit greenhouse gas (GHG) emissions and concentrations in the Earth's atmosphere. Such GHG initiatives rely on the quantification, monitoring, reporting and verification of GHG emissions and/or removals.

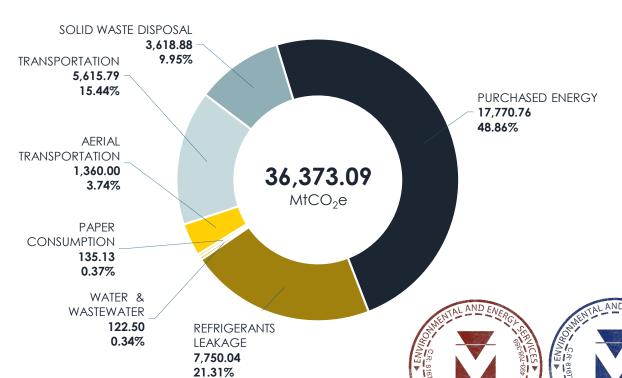
In these regards, Egypt has taken serious measures concluded by issuing its first Biennial Update Report (BUR) in 2018 which includes a complete inventory of the Country's GHG emissions together with a set of climate change mitigation and adaptation measures and indicating the fact that the country's GHG emissions in 2017 would have exceeded 300,000,000 MtCO<sub>2</sub>e with Cairo, Giza and Alexandria topping the governorates chart.

Stemming from its serious commitment to sustainability and transparency, and perfectly aligned with 2030 Sustainable Development Goals (SDGs) as well as Egypt's 2030 Vision, CIB has taken a significant initiative to produce its First Carbon Footprint report in 2017 for its Giza and Alexandria branches. The current report covers the remaining 182 branches, distributed all over the country. This complements the bank's four consecutive sustainability reports published for the years 2015, 2016, 2017 and 2018. The Carbon Footprint initiative places the Bank group at the upfront of the banking sector in Egypt with regards to comprehensive carbon footprint assessment and sets the standards for the sector. It also clearly and accurately defines the baseline and performance indicators allowing setting the future sustainability goals for the bank.

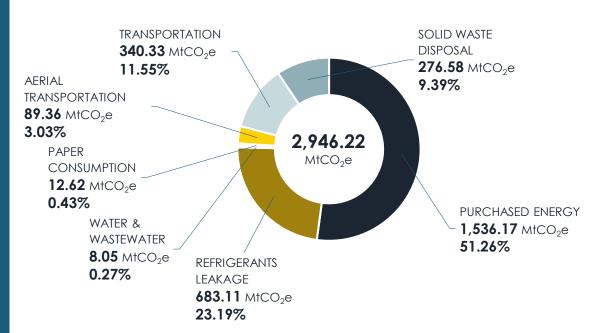


# **TOTAL FOOTPRINT**

| SCOPE Direct Emissions  | M†CO₂e              | %   |
|---|---------------------|---|
| Owned Vehicles (Fuel burning):  | 2,293.41            |   |
| Refrigerants Leakage:   | 7,750.04            |   |
| Total Scope 1   | 10,043.45           | 28 %  |
| SCOPE 2 Indirect Emissions  | MtCO <sub>2</sub> e | %   |
| Purchased Electricity:  | 17,770.76           |   |
| Total Scope 2   | 17,770.76           | 49 %  |
| SCOPE 3 Indirect Emissions  | M†CO₂e              | %   |
| Transportation:   | 3,322.38            |   |
| Aerial Transportation:  | 1,360.00            |   |
| Water & Wastewater:   | 122.50              |   |
| Paper Consumption:  | 135.13              |   |
| Solid Waste Disposal:   | 3,618.88            |   |
| Total Scope 3   | 8,558.88            | 23%   |
| <b>Total emissions</b> MtCO₂e   | 36,373.09           | 100%  |
| Emissions/ employee MtCO <sub>2</sub> e Emissions/ employee MtCO <sub>2</sub> e (Scope 1 & 2) |                     | <ul><li>8.60 MtCO<sub>2</sub>e</li><li>6.57 MtCO<sub>2</sub>e</li></ul> |



MASADE





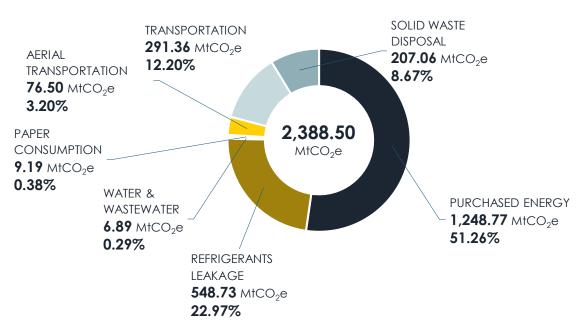
# **Heliopolis Branches**







| 1  | El Shams              |   | • |   |
|----|-----------------------|---|---|---|
| 2  | Sheraton Heliopolis   |   | • | • |
| 3  | Triumph               |   |   |   |
| 4  | New Nozha             |   |   |   |
| 5  | Morabaa El Wozara     | • | • |   |
| 6  | Joseph Tito           | • | • |   |
| 7  | Heliopolis            |   |   |   |
| 8  | El Hegaz              |   |   |   |
| 9  | El Abbassia           |   | • | • |
| 10 | El Khalifa El Maamoun | • | • |   |
| 11 | Gesr El Suez          |   |   | • |
| 12 | New Hegaz "X-Citi"    | • | • |   |
| 13 | Merryland             |   |   |   |
| 14 | El Thawra             |   |   |   |
| 15 | El Sawah              |   |   |   |
| 16 | Hadayek El Koba       |   | • |   |
| 17 | El Korba              | • |   |   |
| 18 | Marghany              | • |   | • |





# **Nasr City Branches**



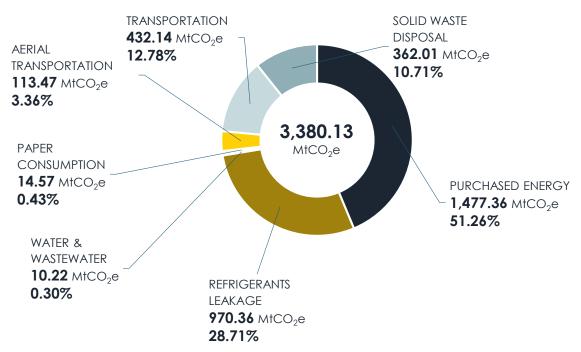




| 230 |
|-----|
| 230 |

| 1        | Mokattam                                 |   |   | • |
|----------|--|---|---|---|
| 2        | Tayaran                                  | • | • |   |
| 3        | Obour Building - Salah Salem             |   |   |   |
| 4        | Abbas El-Akkad                           |   | • |   |
| 5        | Nasr City/ El Zomor                      |   |   |   |
| 6        | Abdel Razek El-Sanhoury                  |   |   |   |
|          |  |   |   |   |
| 7        | Mostafa El Nahas                         |   | • |   |
| 8        | Mostafa El Nahas<br>Abou Dawod El-Zahery |   | • | • |
| <u> </u> |  |   | • | • |
| 8        | Abou Dawod El-Zahery                     | • | • | • |
| 8        | Abou Dawod El-Zahery City Stars          | • |   | • |







# Down Town & Maadi







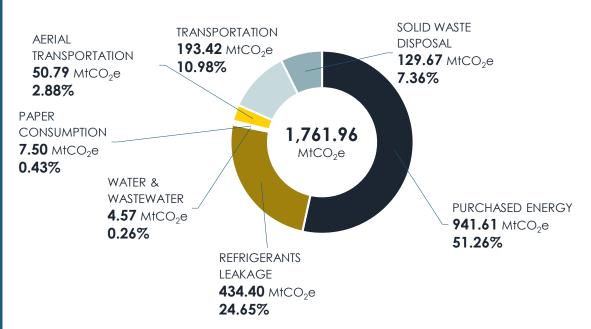
| 1  | Mobtdyan              |   |      |               |
|----|-----------------------|---|------|---------------|
| 2  | Semeramis             |   | •    |               |
| 3  | Nova Park             |   | •    |               |
| 4  | El Ashraf             | • | •    |               |
| 5  | 57357 Cancer Hospital | • | •    | •             |
| 6  | Down Town             |   |      | •             |
| 7  | Kasr El Nil           |   | •    | •             |
| 8  | Ramsis                |   | •    |               |
| 9  | El-Mosky              |   | •    |               |
| 10 | Zamalek               |   |      |               |
| 11 | New Zamalek           |   | •    |               |
| 12 | El Gezira (Citi)      |   | •    |               |
| 13 | Mfa                   | • |      |               |
| 14 | Maadi                 |   |      |               |
| 15 | Saryat El Maadi       |   |      |               |
| 16 | Maadi Towers (Citi)   |   | •    |               |
| 17 | Helwan                | • |      | •             |
| 18 | Cornich El Maadi      | • |      |               |
| 19 | Maadi Grand Mall      |   |      |               |
| 20 | New Maadi             |   |      |               |
| 21 | Laselki               | • |      |               |
| 22 | Zaharaa El Maadi      |   | AL A | ND FAIR       |
| 23 | Meraag                | • | Men  | ERGY          |
|    |                       |   | /07/ | Color Control |

Below Benchmark

Within Benchmark



# NEW CAIRO





# **New Cairo Branches**



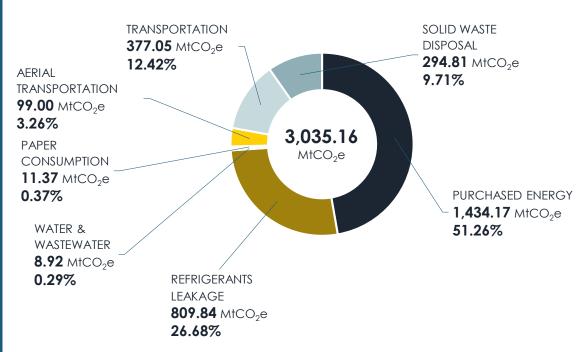






| 1  | JW MARRIOT                  |   |   |   |
|----|-----------------------------|---|---|---|
| 2  | EL HAMAD                    | • | • |   |
| 3  | CAIRO FESTIVAL              |   |   |   |
| 4  | CONCORD PLAZA               |   |   |   |
| 5  | EL TAGAMOO EL KHAMES        |   |   |   |
| 6  | MIVIDA BRANCH               | • | • |   |
| 7  | MEDICARE BRANCH             | • | • |   |
| 8  | EL TAGAMOO EL AWAL, EMERALD |   |   | • |
| 9  | EL REHAB                    |   |   |   |
| 10 | CITY SQUARE                 | • | • |   |
| 11 | WATERWAY                    |   |   |   |
| 12 | EL SHEROUK                  |   |   | • |
| 13 | MADINATY                    | • |   |   |







# Canal & Ind. Ports Branches



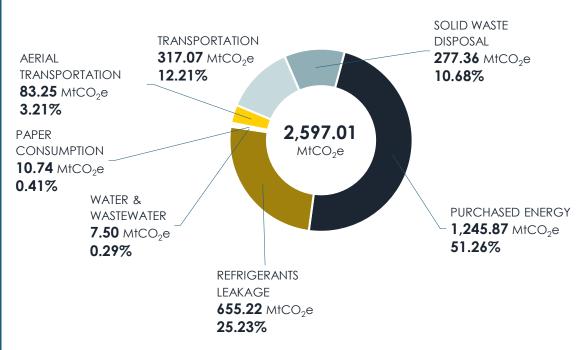






| 1  | New Obour City              |   |   |   |
|----|-----------------------------|---|---|---|
| 2  | El-Obour                    |   |   |   |
| 3  | Port Said                   |   |   |   |
| 4  | Cornich Port Said           | • | • |   |
| 5  | Port Fouad                  | • |   | • |
| 6  | Damietta                    |   |   |   |
| 7  | Damietta Port               |   |   | • |
| 8  | New Damietta                |   |   |   |
| 9  | Suez                        |   |   |   |
| 10 | Sokhna Port                 |   |   |   |
| 11 | Teda Suez                   |   |   |   |
| 12 | Badr Dry Port               | • |   |   |
| 13 | 10 <sup>th</sup> of Ramadan | • | • |   |
| 14 | Ismailia                    | • |   |   |
| 15 | El-Sadat                    |   |   |   |
| 16 | Borg El-Arab                | • | • |   |
| 17 | Alex Port                   |   |   | • |
| 18 | Free Zone Branch            |   | • | • |









| Delta 8 | Upper  | Egypt |
|---------|--------|-------|
| В       | ranche | S     |

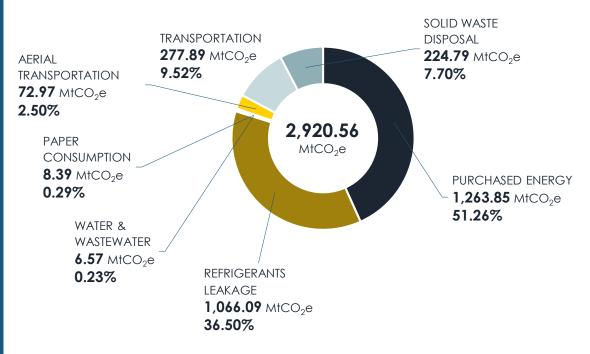






| 1  | Tanta              |   |   |   |
|----|--------------------|---|---|---|
| 2  | Quesna             |   | • | • |
| 3  | Zagazig            |   | • |   |
| 4  | Banha              |   |   | • |
| 5  | Damanhour          | • |   |   |
| 6  | Kafr El Zayat      | • |   |   |
| 7  | Shebein El Kome    |   |   |   |
| 8  | Mansoura           |   |   |   |
| 9  | El Gomhoria        |   | • |   |
| 10 | El Mahalla         |   |   |   |
| 11 | Meet Ghamr         | • |   |   |
| 12 | Kafr El Sheikh     | • |   | • |
| 13 | Ahmed Maher Branch | • | • |   |
| 14 | Menia              |   | • |   |
| 15 | Assuit             |   | • |   |
| 16 | Sohag              |   | • |   |
| 17 | Bani Sweif         | • |   |   |









# **Touristic Zone Branches**

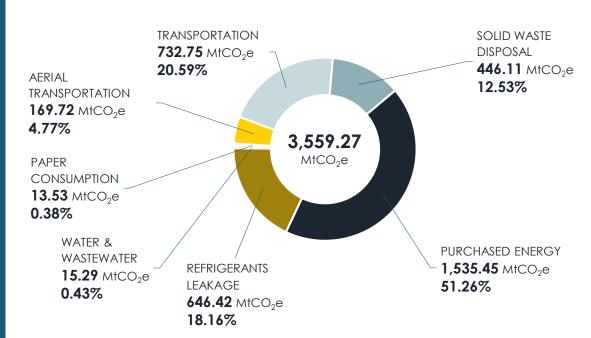






| 1  | HURGHADA MAIN        |   |   |   |
|----|----------------------|---|---|---|
| 2  | EL BASHA             |   |   |   |
| 3  | EL DAHHAR            |   |   |   |
| 4  | HURGHADA GRAND HOTEL |   | • | • |
| 5  | EL GOUNA             |   |   |   |
| 6  | MAKADY BAY           |   |   | • |
| 7  | MARINA ABU TEIG      | • | • | • |
| 8  | SUN RISE             |   |   |   |
| 9  | PORT GHALIB          | • | • | • |
| 10 | LUXOR                | • |   |   |
| 11 | ASWAN                | • | • |   |
| 12 | SHARM EL SHEIKH      |   |   |   |
| 13 | GENENA CITY          | • | • |   |
| 14 | DAHAB                | • | • | • |
| 15 | HADABA               |   |   |   |
| 16 | NABQ                 |   |   |   |
| 17 | EL-TOR SINAI         | • | • |   |
| 18 | TABA                 | • | • | • |







# Alexandria Zone Branches

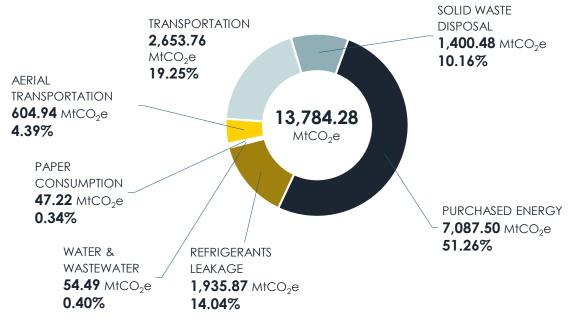








| 1  | El SULTAN HUSSEIN + NILE TWRS. |   |   |   |
|----|--------------------------------|---|---|---|
| 2  | LAGOON CLUB                    |   | • |   |
| 3  | MARSA MATROUH                  | • | • |   |
| 4  | EL AGAMY                       | • |   | • |
| 5  | PORTO MARINA                   |   | • | • |
| 6  | EL MANSHIA                     |   |   |   |
| 7  | EL MANSHIA SQUARE              |   | • |   |
| 8  | SULTAN HUSSEIN II              |   |   |   |
| 9  | GREEN PLAZA                    |   | • |   |
| 10 | PHAROS UNIVERSITY              | • | • | • |
| 11 | AZARITA                        | • | • | • |
| 12 | FOUAD STREET                   | • |   |   |
| 13 | KAFR ABDO - OLD A.B.           |   |   |   |
| 14 | SEMOUHA                        |   | • |   |
| 15 | SPORTING                       | • |   |   |
| 16 | SARAYAH SEMOUHA                |   |   |   |
| 17 | ROUSHDY                        |   | • |   |
| 18 | ROUSHDY AFFLUENT (BOLKLY)      |   |   |   |
| 19 | LOURAN                         |   |   |   |
| 20 | MIAMI                          |   |   |   |
| 21 | SAN STEFANO                    |   |   |   |
| 22 | EL MONTAZA                     | • | • | • |
| 23 | WABOUR EL MAYA                 | • | • |   |
|    |                                |   |   |   |



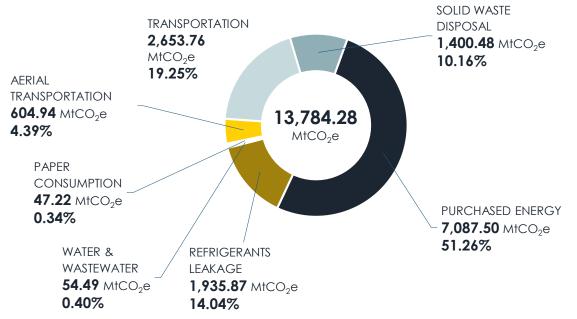


# Giza Zone Branches





| 1  | EL-DOKKI           | • |   |   |
|----|--------------------|---|---|---|
| 2  | NADI EL SEID       | • | • |   |
| 3  | MESSAHA SQUARE     |   |   |   |
| 4  | MOSADAK            | • | • |   |
| 5  | ABDEL MONEIM REYAD | • | • |   |
| 6  | MOHANDESSIN        | • |   | • |
| 7  | GERMAN CHAMBER     |   |   |   |
| 8  | GEZIRET EL ARAB    |   | • |   |
| 9  | LEBANON            |   | • |   |
| 10 | EL GIZA            |   |   |   |
| 11 | EL MANYAL          | • | • | • |
| 12 | EL HARAM           |   |   | • |
| 13 | NEW HARAM          |   |   |   |
| 14 | 6th OCTOBER        | • |   |   |
| 15 | MINA GARDEN CITY   |   |   |   |
| 16 | NEW OCTOBER        |   |   |   |
| 17 | GARDENIA           | • | • | • |
| 18 | RAYA               |   | • |   |
| 19 | MALL OF EGYPT      |   | • |   |
| 20 | EL SHEIKH ZAYED    |   | • |   |





# Giza Zone Branches



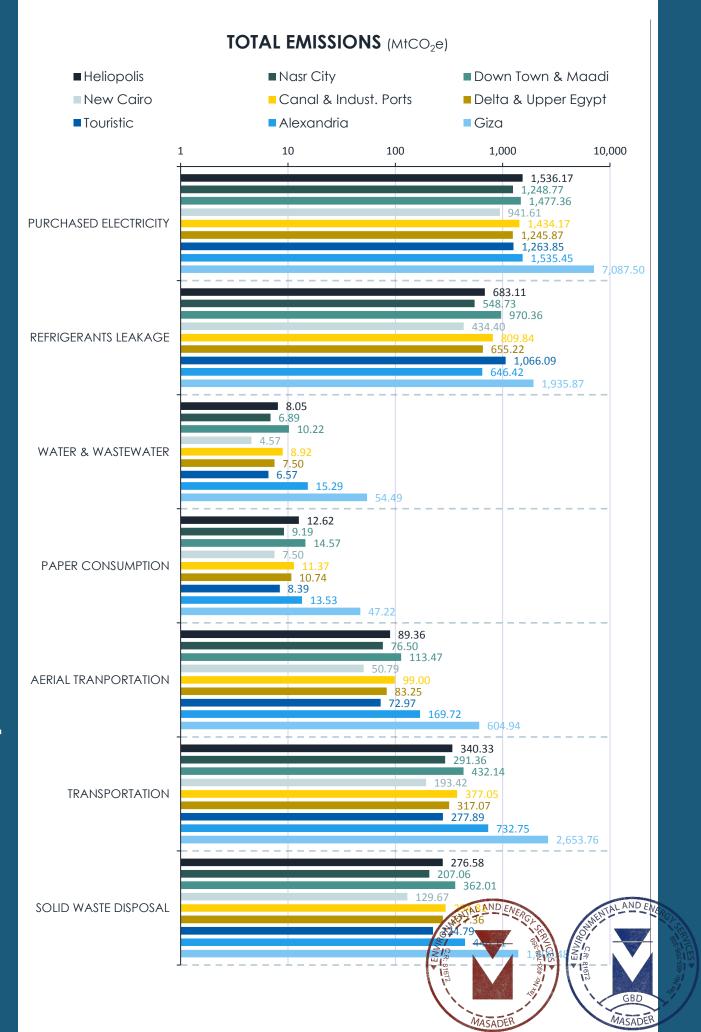




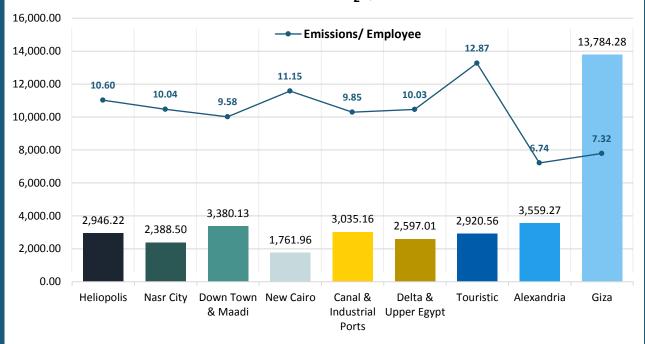


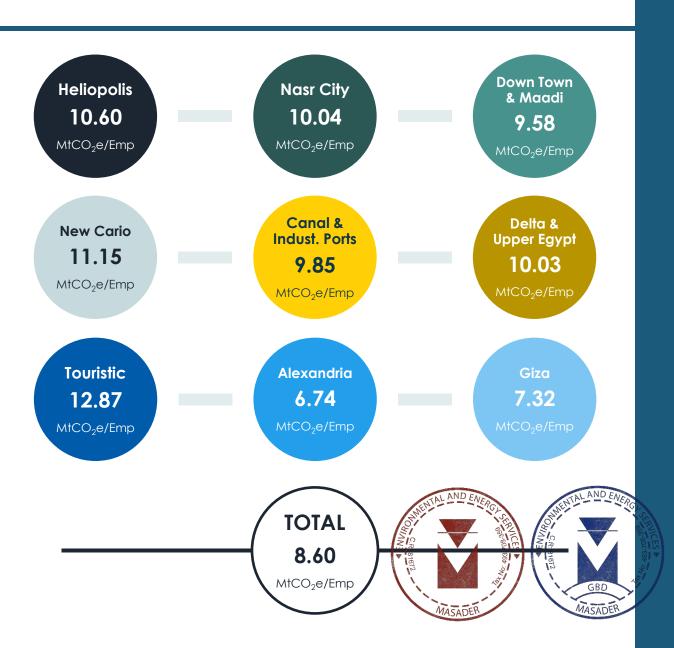
| 21 | MALL OF ARABIA               |   |   |   |
|----|------------------------------|---|---|---|
| 22 | EL RABWA                     | • |   | • |
| 23 | SODIC POLYGON                | • |   |   |
| 24 | SODIC STRIP                  |   | • | • |
| 25 | AMERICANA PLAZA              |   |   |   |
| 26 | CITY VIEW                    | • | • | • |
| 27 | PALM HILLS                   | • |   |   |
| 28 | DANDY MALL                   |   |   |   |
| 29 | NEW GIZA                     | • | • |   |
| 30 | SHOBRA                       |   |   |   |
| 31 | SHOBRA AGHAKHAN              |   | • |   |
| 32 | ARKADIA MALL + CENTRAL VAULT |   | • |   |
| 33 | EL-SABTEYA                   |   |   |   |
| 34 | SMART VILLAGE                |   |   | • |
| 35 | SMART VILLAGE 1              |   |   |   |
| 36 | SMART VILLAGE 2              |   |   |   |
| 37 | SMART VILLAGE 3              |   |   |   |
| 38 | SMART VILLAGE 4              |   |   |   |
| 39 | TIBA BUILDING                |   |   |   |
| 40 | 6th OF OCTOBER STORE         |   | • |   |





# Emissions MtCO<sub>2</sub>e/Zone







# **PURCHASED ELECRICITY**

The carbon footprint internal benchmark for the energy consumption aspect is between 2.84 & 6.50 MtCO<sub>2</sub>e/ employee/ year (equivalent to an energy consumption of 5,380 & 12,306 kWh/ employee/ year). The data analysis indicates that 63 branches across Egypt have exceeded this benchmark with branches emitting as high as 22.50 MtCO<sub>2</sub>e/ employee/ year. CIB could therefore reduce its energy consumption by a total of 5,496,803 kWh per year making this target (i.e. reducing energy consumption) a priority for CIB.

Key steps proposed for reducing the energy consumption could be summarized as follows:

- Conducting an energy measurement campaign and constructing the energy baseline and energy performance indicators for the bank according to ISO50006.
- Implementing an energy management system according to ISO50001 to ensure continual improvement in energy consumption including:
  - Developing Resource-efficient Design guidelines for new CIB branches
  - o Develop Resource-efficiency operational control guidelines
  - Develop Resource-efficiency procurement procedures
- Conducting sustainability training and awareness campaigns
- Conducting a technical energy audit to identify energy saving opportunity. In this regard and from the analysis of results so far, it could be concluded that the operational control and facility management work could be further improved.



# **WATER & WASTEWATER**

The steps proposed for reducing the energy consumption could also serve well for reducing the water consumption.







# PAPER CONSUMPTION

The carbon footprint internal benchmark for the paper consumption aspect is  $0.041~MtCO_2e/$  employee/ year (equivalent to consuming 7,838 A4 paper sheets per employee/ year). 40 branches across Egypt have exceeded this benchmark.

There is therefore a potential in reducing the paper consumption by a total of 1,390,690 A4 paper sheets per year, best achieved by adopting the measures indicated below:

- Conducting sustainability training and awareness campaigns
- Placing a cap on each employee and/or branch
- Finding alternatives means to paper media



# WASTE DISPOSAL

The carbon footprint benchmark for the solid waste disposal aspect is set to zero emissions equivalent to virtually **zero-waste to landfill** according to international best practices. The potential reduction of emissions if the benchmark is achieved would be around  $3,618.88 \, MtCO_2e/year$ .



# REFRIGERANTS LEAKAGE

The steps to take for reducing the refrigerant leakage are mainly associated with checking the design of the existing HVAC systems and ensuring that they are properly designed. These measures are normally incorporated into the implementation of an energy management system and/or conducting a technical energy audit.





# By 2025

CIB aims to reduce their GHG emissions by **10%** (around **1**,800 MtCO<sub>2</sub>e) by the year **2025**. This target could be achieved by reducing:

| Aspect | %   | MtCO <sub>2</sub> e | Absolute Value      |
|--------|-----|---------------------|---------------------|
|        | 15% | 2,665.61            | 5,048,511 kWh       |
|        | 6%  | 465                 | 257 kg – R22        |
|        | 3%  | 3.68                | 19,887 m³           |
|        | 5%  | 6.76                | 1,291,326 A4 papers |
| ×      | 3%  | 40.80               | Carbon Offsetting   |
|        | 3%  | 168.47              | 76,472 Liters       |
|        | 5%  | 180.94              | 576 tons            |
|        | 10% | 3,531               | MtCO <sub>2</sub> e |









# 1. INTRODUCTION

The Earth continuously attempts to maintain a balance between the incoming and outgoing sun radiation. Only around 70% of sun's visible and Ultraviolet (UV) enters the atmosphere; part of this radiation is absorbed by water vapor, aerosols, and ozone, while the remaining part is absorbed by the Earth' surface then re-radiated as Infrared (IR) heat.

The bulk of Earth's atmosphere (Oxygen and Nitrogen) absorb this outgoing reflected radiation. However, there are other gases in the atmosphere namely carbon dioxide ( $CO_2$ ), methane ( $CH_4$ ), nitrous oxide ( $N_2O$ ) and other gases which trap this outgoing reflected energy and radiate in all directions negatively impacting the energy balance. These gases are referred to as 'Greenhouse Gases' (GHG) and the impact is referred to as global warming resulting in climate change.

Egypt in particular is vulnerable to climate change including potential sea-level rise, which threatens the fertile Nile River Delta (the Nile Delta). This is in addition to potential changes in the average flow which could seriously threaten Egypt's water supplies. In addition to climate change impacts and needed mitigation measures, rising energy demands and prices in Egypt are placing increased pressure on businesses. Managing carbon emissions and protecting business from the risks associated with climate change became therefore fundamental in order to achieve sustainable development, greener corporate culture and stronger shareholder returns.

Carbon footprint is the heart of beginning such a journey. It's considered an essential foundation in identifying business behavior including energy consumption among others. It is important for any business to integrate emission management into its strategy to allow for sustainable change in operational behavior Determining the carbon footprint represents a critical step towards setting a baseline for monitoring practices for CIB group.





# 2. OVERALL METHODOLOGY

# 2.1. Overview

CIB's Carbon footprint analysis and calculations were based on a number of standards and guidelines, including but not necessarily limited to the following:

- The Greenhouse Gas Protocol recognized as the most widely used international accounting tool for government and business sector.
- ISO 14064-1:2006
- Intergovernmental Panel on Climate Change (IPPC) Guidelines

# 2.2. Activity Data

To calculate CIB's Carbon Footprint, all relevant GHG emissions from processes and activities occurring uniquely at CIB were identified. Activity data was collected. Explanation was provided whenever activity data has not been available, and recommendations made for future improvements in data recording.

# 2.3. Emission Factors

Emission factors convert activity data (e.g. amount of fuel used, kilometers driven, and kilowatt hours of purchased electricity) into a value indicating carbon dioxide equivalent (CO<sub>2</sub>e) emissions generated by that activity. The emission factors where identified based on the default values adopted by the Department for Environment, Food & Rural Affairs UK (DEFRA) as well as individual researches.

# 2.4. Calculation Method

The Carbon footprint study accounted for all six Kyoto GHG emissions:

Carbon Dioxide (CO<sub>2</sub>)

Hydrofluorocarbons (HFCs)

Methane (CH₄)

Perfluorocarbons (PFCs)

Nitrous Oxide (N₂O)

Sulphur hexafluoride (SF<sub>6</sub>)

**Metric tons carbon dioxide equivalent** (MtCO<sub>2</sub>e) is the main unit of measurement which allows different greenhouse gases to be compared on a like for like basis relative to one unit of CO<sub>2</sub>.

#### **Main Formula**

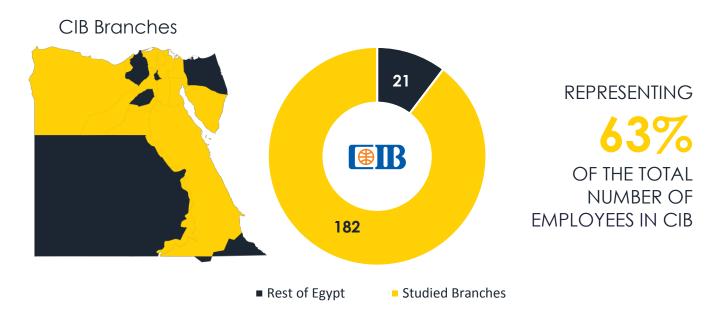
GHG Emission (MtCO₂e) = Activity (unit of activity) x Emission Factor (MtCO₂e/ unit of activity)





# 2.5. Scope & Boundaries

Carbon footprint calculations focus exclusively on 182 CIB branches located in Egypt. This represents 90% of total CIB branches located in Egypt.



| 9 | #  | Branch Name | Address |
|---|----|-------------|---------|
| _ | 77 | Branch Name | Addiess |

|            | 1  | El Shams              | 40 | 2 Abdel Hamid Badawi Street, Beside gate 2, El Shams Club.               |
|------------|----|-----------------------|----|--|
|            | 2  | Sheraton Heliopolis   | 17 | Khaled Ebn El Waleed St. Masaken Sheraton Heliopolis                     |
|            | 3  | Triumph               | 20 | 101 Osman Ibn Affan Street   |
|            | 4  | New Nozha             | 11 | 22, Dr. Ahmed Mostafa st. New Nozha                                      |
|            | 5  | Morabaa El Wozaraa    | 7  | 6 Sayed Zakaria St.,1181 Square - Sheraton Heliopolis - El Nozha Section |
|            | 6  | Joseph Tito           | 8  | 2 block 24 Badr division - joseph tito – EL Nozha.                       |
|            | 7  | Heliopolis            | 28 | 24 El Marghany Street  |
| HELIOPOLIS | 8  | El Hegaz              | 15 | 91 El Hegaz Street   |
|            | 9  | El Abbassia           | 15 | 115, El Abbassia St.   |
| OIT        | 10 | El Khalifa El Maamoun | 8  | 47 El Khalifa El Maamoun Street  |
| 풀          | 11 | Gesr El Suez          | 8  | 7 El Sebak St. beside Merryland  |
|            | 12 | New Hegaz "Xciti"     | 7  | 166 El Hegaz - in Front Of El Watanyia Hospital                          |
|            | 13 | Merryland             | 25 | 2 El Hegaz St., Cedare Building – Merryland.                             |
|            | 14 | El Thawra             | 26 | 4 Farid st., off El Thawra St.   |
|            | 15 | El Sawah              | 15 | 1 Petroleum Co. st., Mostorod  |
|            | 16 | Hadayek El Koba       | 12 | 18/24 Waly El Ahd st.  |
|            | 17 | El Korba              | 8  | 18 Nazih Khalifa St.   |
|            | 18 | Marghany              | 8  | 59 El Merghany St.   |





|      | 19 | Mokattam                | 23 | 106 Road # 9, El Mokattam   |
|------|----|-------------------------|----|---|
|      | 20 | Tayaran                 | 8  | no 2 Omar Zaafan st cross with Tayaran st.                          |
|      | 21 | Obour Building          | 26 | 8, El-Obour Buildings - Salah Salem Street                          |
|      | 22 | Abbas El-Akkad          | 30 | 53 Abbas El Akkad St. Nasr City                                     |
| >    | 23 | Nasr City/ El Zomor     | 18 | 40 Ahmed El Zomor St. Nasr City                                     |
| CITY | 24 | Abdel Razek El-Sanhoury | 28 | 23 Abdel Razik ELSanhoury street.                                   |
| NASR | 25 | Mostafa El Nahas        | 14 | 2 Abdel Hakim El-Rafei-Abbas El-Akkad                               |
| Z    | 26 | Abou Dawod El-Zahery    | 17 | 71 Abou Dawood AlZahery street.                                     |
|      | 27 | City Stars              | 20 | City stars mall, entrance # 6                                       |
|      | 28 | El-Nasr                 | 39 | 14 Ramo Buildings, Across of El Nasr Road & Omar Ibn Khattab St.    |
|      | 29 | Suncity                 | 7  | Sun city Mall in front of Cairo Airport                             |
|      | 30 | Airport                 | 8  | CIA - Amer International Center, Beside Logistic Center - 1st Floor |

|                   | 31 | Mobtdyan              | 23 | 49 Mohamed Ezz El Arab St. From Kasr El Eini St.                  |
|-------------------|----|-----------------------|----|---|
|                   | 32 | Semeramis             | 12 | Medan Semon Bolivar- Semiramis Hotel.Down Town                    |
|                   | 33 | Nova Park             | 9  | 1089 Cornish El-Nil - Nile Plaza tower - Garden City              |
|                   | 34 | El Ashraf             | 14 | Al Ashraf building Al -Azhar p.o box 2430                         |
|                   | 35 | 57357 Cancer Hospital | 4  | 1 seket el emam - eslsyada zeinab - inside 57357 hospital         |
|                   | 36 | Down Town             | 34 | 33 Abdel Khalek Tharwat st., in front of Dar Elmaaref - Down Town |
|                   | 37 | Kasr El Nil           | 17 | 41 kasr El Nil St. Moustafa Kamel Sq.                             |
|                   | 38 | Ramsis                | 15 | 40 Ramsis St., DOWN TOWN, Cairo                                   |
| ٥                 | 39 | El-Mosky              | 9  | 430 Portsaid st., El Moskey                                       |
| DOWN TOWN & MAADI | 40 | Zamalek               | 39 | 12 El Saleh Ayoub st. El Zamalek                                  |
| <u> </u>          | 41 | New Zamalek           | 10 | 44 Mohamed Mazher - El Zamalek                                    |
| N N               | 42 | El Gezira (Citi)      | 10 | 4 (A) El Geziera st., Zamalek                                     |
| 으                 | 43 | Mfa                   | 6  | Ministry of Foreign Affairs building, Cournish el nil Maspiro,    |
| Š                 | 44 | Maadi                 | 32 | 67 St. # 9, Maadi   |
| 20                | 45 | Saryat El Maadi       | 16 | 25 St.#10, Sarayat El Maadi                                       |
|                   | 46 | Maadi Towers (Citi)   | 9  | 1 (A) Houd El Geziera st., Maadi                                  |
|                   | 47 | Helwan                | 8  | 4A Mohamed Sayed Ahmed St. Crossing with Youssef St.              |
|                   | 48 | Cornich El Maadi      | 10 | 25 Corniche El Maadi - Ghadet El Maadi Tower- platform            |
|                   | 49 | Maadi Grand Mall      | 29 | El Nasr College Sq. Grand Mall                                    |
|                   | 50 | New Maadi             | 16 | 8 St. # 257, New Maadi  |
|                   | 51 | Laselki               | 12 | 1/1 Ahmed Kamed St., 4/5 Ta2sem Laselky                           |
|                   | 52 | Zaharaa El Maadi      | 12 | 8 Zahraa El-Maadi St.   |
|                   | 53 | Meraag                | 7  | El Megawra 10 - Meraag City - Maadi                               |

|         | 54 | JW Marriot                 | 6  | Ring Road - Inside JW Marriott Hotel - Mirage City                    |
|---------|----|----------------------------|----|---|
|         | 55 | El Hamad                   | 15 | Elmahkama St., New cairo - El Tagamoaa El Khames                      |
|         | 56 | Cairo festival             | 10 | Cairo festival city mall - El Teseen St Infront of Downtown Mall      |
| / CAIRO | 57 | Concord plaza              | 17 | 11,12 Concord plaza mall - south El Tesein St El Tagamoo El Khame     |
|         | 58 | El Tagamoo el Khames       | 29 | Place 116/118 Down Town - 90 St El Tagamoo El Kahmes                  |
| NEW     | 59 | Mivida branch              | 7  | Mivida Compund - End of El Tessein st Business Park - Building A2     |
| _       | 60 | Medicare branch            | 6  | Building 162 north El Teseen street - Cairo medical center            |
|         | 61 | El tagamoo el awal-Emerald | 10 | Twin plaza mall - in front of the Police academy - El Tagamoo El Awal |
|         | 62 | El rehab                   | 20 | Banks Area - Rehab city   |





| O <sub>O</sub> | 63    | City square | 6        | El Rehab City - City square Mall - Gate 6 - New Cairo |  |
|----------------|-------|-------------|----------|---|--|
|                | CAIRO | 64          | Waterway | 11  | Plot 22, New Investors Area, New Cairo, Commercial Units AGS4 & ASFA |
| 3              | 65    | El sherouk  | 10       | El Sherouk City - Sky Plaza Mall                      |  |
|                | NE    | 66          | Madinaty | 11  | Madinaty Banks area - Group 24 B2                                    |

|                 | 67 | New Obour City              | 17 | Obour City 2 - Avenue Mall - El Obour City                              |
|-----------------|----|-----------------------------|----|---|
|                 | 68 | El-Obour                    | 16 | Obour City - City Club Fence, El Golf, Shop 10,11                       |
|                 | 69 | Port Said                   | 41 | 23 July & Abou El Fedda St.   |
|                 | 70 | Cornich Port Said           | 12 | No. (1) Atef El Sadat St. Taqseem El Amal Qoshalaq El Sawahel Port Said |
|                 | 71 | Port Fouad                  | 7  | El Camilia Tower - El Geish street and El shaheed Gawwad hosny          |
| S               | 72 | Damietta                    | 22 | 122- El Moderryya, Ellozy ST prevoiuslt., Frist District, Damietta      |
| PORTS           | 73 | Damietta Port               | 17 | Damietta port Authority -investment building # A & B                    |
| T. P(           | 74 | New Damietta                | 12 | 92 Central Area New Damietta  |
| .Snc            | 75 | Suez                        | 25 | 1 El-Khedr Square - Macca Buliding - Suez                               |
| Z               | 76 | Sokhna Port                 | 14 | Building 14 - DP World - Sokhna Port, Sokhna, Suez                      |
| CANAL & INDUST. | 77 | Teda Suez                   | 7  | TEDA SEZONE DEVELOPMENT Co, 3rd Sector, N.W. Gulf of Suez               |
| ANA             | 78 | Badr Dry Port               | 7  | Badr Dry Port - Shipping Agencies Building - Adabiya - Suez             |
| Ö               | 79 | 10 <sup>th</sup> of Ramadan | 27 | Block N 8 Main City Center 10th of Ramadan                              |
|                 | 80 | Ismailia                    | 18 | 34 El Thawra (Sultan Hussein) St., Ismailia                             |
|                 | 81 | El-Sadat                    | 16 | El- Sadat city - Talaat Harb street zone 7, P.O box 4 el sadat city     |
|                 | 82 | Borg El-Arab                | 18 | Borg El Arab - El Megawra 5 - Aly Ebn Aby Taleb st.                     |
|                 | 83 | Alex Port                   | 13 | Alexandria Port Branch –investment Complex –beside gate 14              |
|                 | 84 | Free Zone Branch            | 19 | Alex Cairo Desert Road-K30  |

|       | 85  | Tanta              | 35 | 55 El Geish St., Tanta  |  |
|-------|-----|--------------------|----|---|--|
|       | 86  | Quesna             | 10 | Moubarak Industrial City, 1st Zone, Quesna - El Menoufia Governorate  |  |
|       | 87  | Zagazig            | 17 | Saad Zaghloul St. Zagazig Sharkia                                     |  |
|       | 88  | Banha              | 13 | Street 3 & Kornesh St Villas Area -Banha                              |  |
|       | 89  | Damanhour          | 13 | Abdel Salam El Shazly St. In Front of Damanhour Soprt Medicine Center |  |
| F     | 90  | Kafr El Zayat      | 7  | Gamal Abdel Naser St Kafr El Zayat - Gharbia                          |  |
| EGYPT | 91  | Shebein El Kome    | 13 | El Soroor Building – Gamal Abdel Nasser St. Shebeen El Kom, Monfeya.  |  |
|       | 92  | Mansoura           | 31 | 6 El Guish Front of El Dakahlya Governorate Building - El Mansoura    |  |
| UPPER | 93  | El Gomhoria        | 14 | Borg El Tawfik - El Gomhoria St.                                      |  |
| જ     | 94  | El Mahalla         | 15 | 14, 6 of October Road, Hashem Plaza Building, Mahalla                 |  |
| DELTA | 95  | Meet Ghamr         | 9  | Meet Ghamr - Elbahr St., beside Misr Banque                           |  |
| DE    | 96  | Kafr El Sheikh     | 9  | Borg Vience 2 - Salah Salem St Kafr El Sheik                          |  |
|       | 97  | Ahmed Maher Branch | 8  | Mansoura - 1 Osama Abn Zaid st, From Ahmed Maher St.                  |  |
|       | 98  | Menia              | 20 | 195 Kornish El Nile - Menia City                                      |  |
|       | 99  | Assuit             | 23 | 107 Gomhoria St.  |  |
|       | 100 | Sohag              | 12 | Alexandria Building. Sohag City                                       |  |
|       | 101 | Bani Sweif         | 10 | El Safa Tower, Kornish El Nile-Bani Sweif City                        |  |

| TOURISTIC | 102 | HURGHADA MAIN        | 37 | 4 Airport Road - Banks Districts    |  |
|-----------|-----|----------------------|----|-------------------------------------|--|
|           | 103 | EL BASHA             | 13 | Sheraton Road Aqua Fun Hotel Square |  |
|           | 104 | EL DAHHAR            | 12 | 5 Nasr St. Stadium shops area       |  |
|           | 105 | HURGHADA GRAND HOTEL | 6  | 4 Al Kora Street, Grand Hotel.      |  |



|           | 106 | EL GOUNA        | 15 | Down town FB A Admin 03  |  |
|-----------|-----|-----------------|----|--|--|
|           | 107 | MAKADY BAY      | 7  | Makady Bay, Serenity Hotel, Safaga Road                            |  |
|           | 108 | MARINA ABU TEIG | 3  | Marina Abo Teig El Gouna   |  |
|           | 109 | SUN RISE        | 8  | Mamlouk Mall Kilo 17 Safaga Road                                   |  |
|           | 110 | PORT GHALIB     | 10 | Port Ghaleb Resort - Tower village - K 60 Marsa Alam Elquseir road |  |
| C         | 111 | LUXOR           | 16 | Khaled Ebn Elwaleed St. in front of STEIGENBERGER hotel            |  |
| TOURISTIC | 112 | ASWAN           | 18 | 1 Kornish El Nile - Aswan City                                     |  |
|           | 113 | SHARM EL SHEIKH | 29 | Ghazala Gardens Hotel, Neama Bay.                                  |  |
| ĭ         | 114 | GENENA CITY     | 8  | Hallomy street, Genena city , Neama Bay                            |  |
|           | 115 | DAHAB           | 6  | El mashraba, Dahab   |  |
|           | 116 | HADABA          | 16 | banks Street, Hadaba, Sharm el sheikh                              |  |
|           | 117 | NABQ            | 15 | Rixos Seagate Hotel, Nabq Bay, Sharm El-Sheikh                     |  |
|           | 118 | EL-TOR SINAI    | 6  | 6A, Commercial Area beside South Sinai Broadcast Station.          |  |
|           | 119 | TABA            | 2  | Taba Heights, Taba   |  |

|            |     |                         |    | T T  |  |
|------------|-----|-------------------------|----|--|--|
|            | 120 | SULTAN HUSSEIN + NILE T | 64 | 61 El Sultan Hussein St. + 4 floors central Vault                  |  |
|            | 121 | LAGOON CLUB             | 16 | Alex-Cairo Desert Road Beside Alexandria International Garden      |  |
|            | 122 | MARSA MATROUH           | 11 | Allam El Room & Port Said Street intersection                      |  |
|            | 123 | EL AGAMY                | 8  | Unit S4 - Star Mall - Alex-Matrouh Desert Road                     |  |
|            | 124 | PORTO MARINA            | 4  | Porto Marina Project - North coast                                 |  |
|            | 125 | EL MANSHIA              | 28 | 10 Oraby Sq El Manshia   |  |
|            | 126 | EL MANSHIA SQUARE       | 26 | 12 El Manshia - Square   |  |
|            | 127 | SULTAN HUSSEIN II       | 78 | 55 Sultan Hussien St.  |  |
|            | 128 | GREEN PLAZA             | 18 | 15th of May Rd - Semouha – Green Plaza Mall                        |  |
|            | 129 | PHAROS UNIVERSITY       | 3  | 15th of May Rd - Semouha – PHAROS UNI.                             |  |
| )RIA       | 130 | AZARITA                 | 8  | 94-95 26july Road from El Gesh Road Azarita                        |  |
| ALEXANDRIA | 131 | FOUAD STREET            | 14 | Fouad St. Alex   |  |
| LEX        | 132 | KAFR ABDO - OLD A.B.    | 17 | 43 Qerdahy St. with Mina St. – Kafr Abdo - (Old Alex Bibliotheca). |  |
| A          | 133 | SEMOUHA                 | 30 | 98 Fawzy Moaaz St. & Mohamed Bahaa St, Lotus Building.             |  |
|            | 134 | SPORTING                | 8  | 283 El Geish road, Sporting.                                       |  |
|            | 135 | SARAYAH SEMOUHA         | 24 | 74 A Fawzy Moaaze St Saraya Building                               |  |
|            | 136 | ROUSHDY                 | 36 | 33 / B Sorya Street - Roushdy                                      |  |
|            | 137 | ROUSHDY AFFLUENT        | 50 | 457 El Horreya st. Bolky   |  |
|            | 138 | LOURAN                  | 23 | 649 El Horiaa Rd   |  |
|            | 139 | MIAMI                   | 16 | 557 El Gaiesh Road   |  |
|            | 140 | SAN STEFANO             | 30 | 399 El Corniche Street - San Stefano                               |  |
|            | 141 | EL MONTAZA              | 8  | El Halawany Tower- Malak Hefny st. El Motaza                       |  |
|            | 142 | WABOUR EL MAYA          | 8  | 2 Hafez El Ibrahim, Sigma tower, Wabour El Maya Square             |  |

|      | 143 | EL-DOKKI           | 19 | 94 El Tahreer Street - Dokki, Giza                               |  |
|------|-----|--------------------|----|--|--|
|      | 144 | NADI EL SEID       | 28 | 66/68 Mohy El Din Abou El Ezz St. Dokki                          |  |
|      | 145 | MESSAHA SQUARE     | 11 | 3 el Messaha Sq. Giza  |  |
| Giza | 146 | MOSADAK            | 10 | 27 Mohye El Dien Abou El Ezz - Mosadak                           |  |
|      | 147 | ABDEL MONEIM REYAD | 7  | Abdel Monem Reyad St. El Mohandessen                             |  |
|      | 148 | MOHANDESSIN        | 26 | C113 Gamat El Dowal El Arabia, & El Hegaz St Zamalek Sports Club |  |
|      | 149 | GERMAN CHAMBER     | 21 | 21 Soliman Abaza St Mohandeseen                                  |  |





|      | 150 | GEZIRET EL ARAB                 | 14  | 41 Mohamed Hassan Helmy (prv. Gezerat El Arab) Mohandssen           |  |  |
|------|-----|---------------------------------|-----|---|--|--|
|      | 151 | LEBANON                         | 22  | 40 Lebonon St. El Mohandessen,                                      |  |  |
|      | 152 | EL GIZA                         | 28  | 21/23 Nile Tower - Charles De Gaulle St. (Prv. El Giza ST.)         |  |  |
|      | 153 | EL MANYAL                       | 10  | 53 El Manial  |  |  |
|      | 154 | EL HARAM                        | 26  | 126 El Haram Street.Giza  |  |  |
|      | 155 | NEW HARAM                       | 15  | 439 Haram St.   |  |  |
|      | 156 | 6th OCTOBER                     | 30  | Plot No. 1/1 Banks Region.  |  |  |
|      | 157 | MINA GARDEN CITY                | 13  | Garden City resort - behind El Fouad Hospital                       |  |  |
|      | 158 | NEW OCTOBER                     | 16  | plot no. 9/1, central Spine - 6th October                           |  |  |
|      | 159 | GARDENIA                        | 2   | Gadenia Compound El Sheikh zayed                                    |  |  |
|      | 160 | RAYA                            | 3   | Raya 6 October  |  |  |
|      | 161 | MALL OF EGYPT                   | 9   | Shop 147 G, First Floor, Mall of Egypt                              |  |  |
|      | 162 | EL SHEIKH ZAYED                 | 15  | Landmark commercial center el sheikh Zayed                          |  |  |
|      | 163 | MALL OF ARABIA                  | 13  | Mall of Arabia, 6th of October, Gate 4.                             |  |  |
|      | 164 | EL RABWA                        | 3   | El Rabwa Compound El Shiekh Zaied - 6th October                     |  |  |
|      | 165 | SODIC POLYGON                   | 10  | Sodic Strip Project, 6th of October Shop # 3                        |  |  |
| Giza | 166 | SODIC STRIP                     | 6   | Sodic Polygon Project - Km 38 Cairo Alex Desert Rd, El Shiekh Zaied |  |  |
| Ö    | 167 | AMERICANA PLAZA                 | 13  | Central Spine Rd, Zayed Entrance # 1, Americana Plaza Mall          |  |  |
|      | 168 | CITY VIEW                       | 3   | City View Compound, El Shiekh Zaied - 6th October                   |  |  |
|      | 169 | PALM HILLS                      | 5   | Palm Promenade Mall - Palm Hills - 1 District - 6 October - Giza    |  |  |
|      | 170 | DANDY MALL                      | 18  | Km 28, Cairo Alexandria Desert Rd -Dandy Mall                       |  |  |
|      | 171 | NEW GIZA                        | 4   | Unit Number 3, Service Building, New Giza                           |  |  |
|      | 172 | SHOBRA                          | 22  | 53 shoubra St.  |  |  |
|      | 173 | SHOBRA AGHAKHAN                 | 14  | 16 Dwletyan st, shoubra   |  |  |
|      | 174 | Arcadia Mall + CENTRAL<br>VAULT | 11  | Hilton arcadia 4/4(1) el sekka el togariah -kornish el nile         |  |  |
|      | 175 | El-Sabteya                      | 18  | 50 el sabtiea St.   |  |  |
|      | 176 | Smart Village                   | 14  | B219/F22 financial district smart village cairo-alex desert road    |  |  |
|      | 177 | Smart Village 1                 | 363 | Financial district smart village cairo-alex desert road             |  |  |
|      | 178 | Smart Village 2                 | 463 | Financial district smart village cairo-alex desert road             |  |  |
|      | 179 | Smart Village 3                 | 257 | Financial district smart village cairo-alex desert road             |  |  |
|      | 180 | Smart Village 4                 | 147 | Financial district smart village cairo-alex desert road             |  |  |
|      | 181 | Tiba Building                   | 151 | -   |  |  |
|      | 182 | 6th of October Store            | 22  | 37 Industrial Zone - 6th of October                                 |  |  |
|      | 102 | out of october store            |     | 57aasaai Eorie otii oi ottobei                                      |  |  |

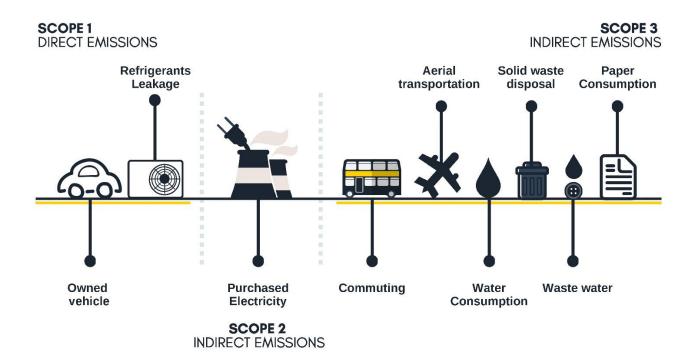




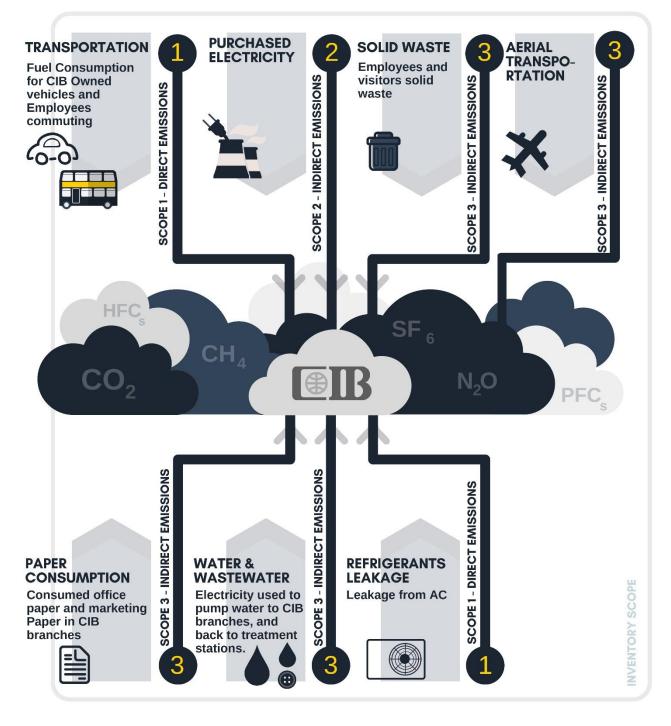
The emitting activities covered in this carbon footprint report for 2018 includes **direct emissions** resulting from CIB owned or controlled equipment and assets, also emissions from purchased electricity; and selected **indirect emissions** resulting from CIB's operation. It is important to highlight that under the GHG Protocol, the reporting of both direct emissions and indirect emissions, resulting from purchased electricity, are compulsory.

Listed In the table below the main activities contributing to CIB's 2018 Carbon Footprint classified according to the relevant scope.

| <b>Emission Scope</b> | Sources                                    | Units | Data Resolution   |
|-----------------------|--|-------|---|
| SCOPE 1               | Transportation Owned Vehicles and Coasters | L     | Fuel consumption/ month                                       |
|                       | Refrigerants leakage                       | kg    | Freon R22 in Kg / branch                                      |
| SCOPE 2               | Purchased Electricity                      | kWh   | Consumption per month/ branch                                 |
|                       | Solid Waste Disposal                       | t     | Waste/ customer, employee/ month<br>/branch                   |
| 000050                | Paper Consumption                          | t     | Consumption of paper and marketing materials per year/ branch |
| SCOPE 3               | Water & Wastewater                         | m³    | Consumption per month/ branch                                 |
|                       | Transportation                             | L     | Fuel consumption - Distance travelled/                        |
|                       | Transportation                             | Km    | month/ employee   |
|                       | Aerial Transportation                      | Km    | Total trips for all branches                                  |







- Scope 1, Direct Emissions: Emissions from sources owned or controlled by the company, e.g. owned vehicles (CIB private cars), refrigerants 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 the company.
- Scope 3, Indirect Emissions: Emissions resulting from other activities of a reporting company, such as water supply and consumption, waste water treatment, employees commuting, solid waste disposal, paper consumption ...etc.





# 2.6. Data quality and Completeness

| Emission Sources                             | Data<br>Quality | Resolution   | Applied assumptions  |
|--|-----------------|--|--|
| Paper consumption                            |                 | <ul><li>A4 paper by branch, per year</li><li>Marketing materials total CIB</li></ul> | 80 g – Uncoated office paper   |
| Transportation (Owned vehicles and Coasters) |                 | Total CIB Fuel consumption/<br>month   | None   |
| Aerial transportation                        |                 | Total CIB  | None   |
| Energy consumption                           |                 | By branch, per month   | None   |
| Refrigerants Leakage                         |                 | Refrigerants cylinders/ year/<br>branch  | None   |
| Water & Wastewater                           |                 | -  | Conversion factors for water:<br>Supply 350 Wh/m³<br>Treatment 88 Wh/m³  |
| Transportation (Commuting)                   |                 | -  | <ul> <li>Daily distance travelled<br/>multiplied by 240 working days<br/>per year.</li> <li>Employees commuting</li> </ul> |
| Solid waste disposal                         |                 | -  | Quantities/ employees and visitors   |

| Weak – Priority area for | Satisfactory – Could be | Good – No changes |
|--------------------------|-------------------------|-------------------|
| improvement              | improved                | recommended       |

# 2.7. Relevancy & Exclusions

The following exclusions of emission sources (and their explanations) are described below:

## Scope 3, Indirect emissions:

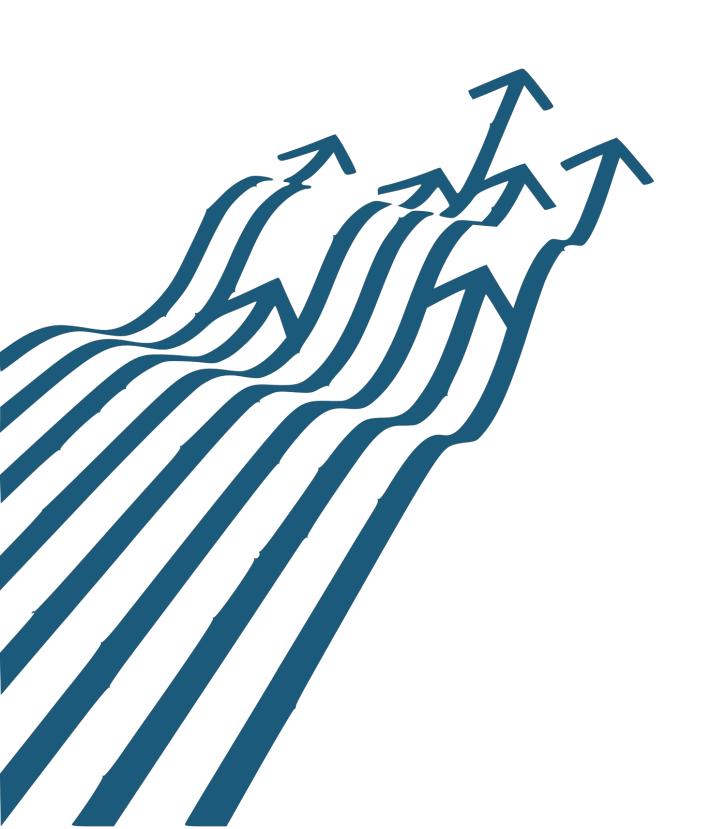
- Emissions from embodied energy of buildings and other capital goods. No available data.
- Transportation emissions from transporting products used in CIB's activities. (Office supplies, paper, food & drinks, ..., etc. No data
- Debit/ Credit cards quantities and their related emissions were excluded No available data.
- Hazardous waste is excluded because there is insufficient information about its quantities, types, treatment to calculate its emissions.
- Emissions from transportation and distribution of debit/ credit cards, bank statements, ..., etc. No available data
- Emissions resulting from commercial loan activities or projects financed by CIB No available data

# 2.8. Reporting Period

The reporting period covers from the 1<sup>st</sup> of January 2018 to the 31<sup>st</sup> of December 2018. This is the first report for the included branches, therefore it will be considered as a baseline report for all upcoming years.



# 3. METHODOLOGY & CALCULATIONS





# 3.1.1. Methodology

# **Scope & Assumptions**

Energy consumption falls under Scope 2 (Indirect emissions). For the branches considered, energy consumption is mainly represented in purchased electricity from national grid, which is used for HVAC, lighting, equipment, among others.

# **Activity Data**

Data on electricity consumption was obtained for all branches from CIB database, based on monthly readings, from January to December 2018, and any missing months were deduced using trend analysis and correlation based on single/multiple regression between Electricity consumption and:

- Cooling degree days (CDD)
- Geometric area of the branch (m<sup>2</sup>)
- Number of employees per branch.

#### **Emission Factor**



Electricity production Purchased Electricity Electricity consumption

Country specific grid electricity emission factor was calculated based on the Clean Development Mechanism (CDM) Methodological Tool; the tool is used to calculate the emission factor based on Egypt's fuel mix and power generation based on the country trend and strategies.

Emission factor =  $\Sigma$  (Fuel amount x EF fuel x NCV fuel) Electricity Generated

#### 3.1.2. Calculations

#### **Emissions**

Emissions were calculated by multiplying the national grid emission factor by the total consumption of the branches.

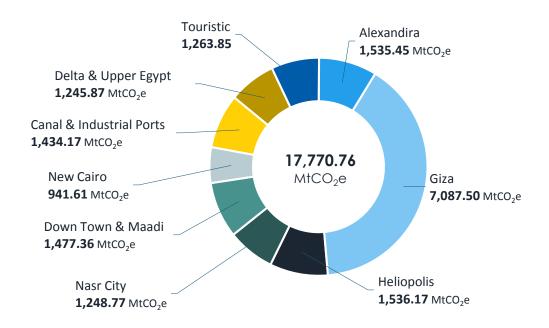
Energy Consumption Emissions (MtCO<sub>2</sub>e) = Electricity Consumption (kWh) x EF (MtCO<sub>2</sub>e/kWh)



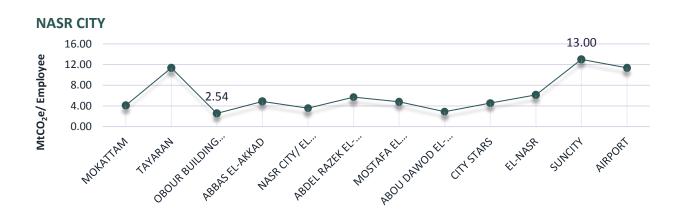


The studied CIB branches consumed 33,656,743 kWh for the year 2018, which resulted in 17,770.76 MtCO₂e.

This accounts for 49% of the total CIB emissions, and the largest contributor to the branches emissions.

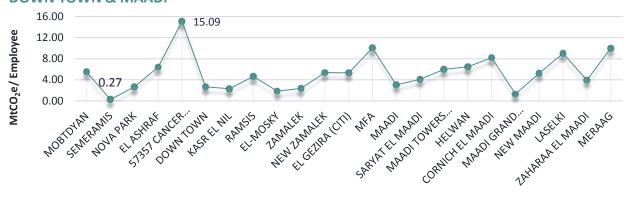




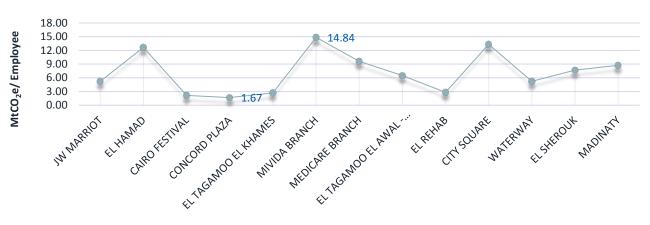




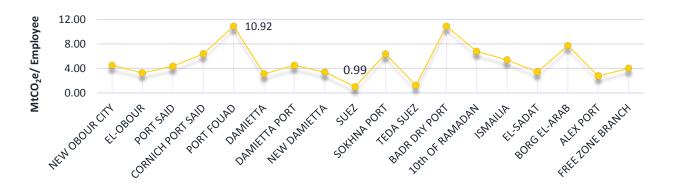
#### **DOWN TOWN & MAADI**



#### **NEW CAIRO**



### **CANAL & INDUSTRIAL PORTS**



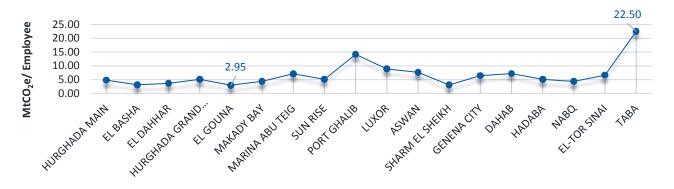




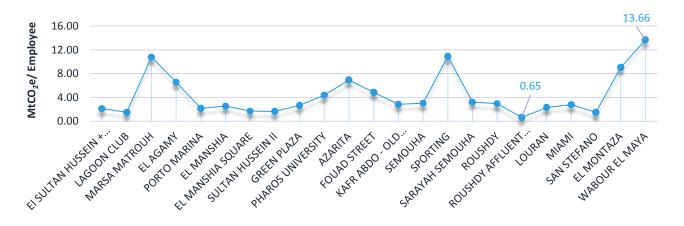




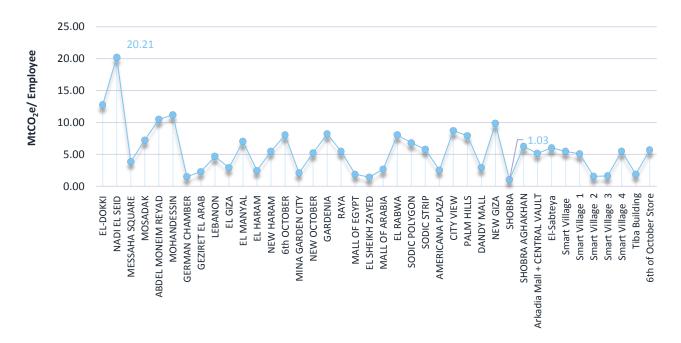
# **TOURISTIC**



# **ALEXANDRIA**



# **GIZA**







# 3.2.1. Methodology

# **Scope & Assumptions**

Water supply and wastewater treatment emissions are indirectly linked to energy emissions; therefore, they fall under scope 3 (indirect emissions). For CIB branches, only one type of water is supplied which is domestic water that comes to all branches through the municipality infrastructure system.

# **Activity Data**

Data on water consumption was calculated based on the average water consumed per employee in a year, which was obtained from CIB database for Giza and Alexandria branches, based on water monthly bills (2017 Carbon Footprint Report).

# **Emission Factor**



Emissions for water supply and treatment were calculated based on the amounts of energy consumed in both processes (supply and treatment), which was calculated by using a conversion formula<sup>1</sup>; for water supply **350 Wh/m³**, and for wastewater treatment **88 Wh/m³**. The emissions from water supply and wastewater treatment are then calculated by multiplying the energy consumption by the electricity emission factor.

Energy Consumption (Wh) = Water supply/ wastewater (m³) x Conversion formula (Wh/m³)

<sup>&</sup>lt;sup>1</sup> Holding Company for Water and Wastewater (HCWW)



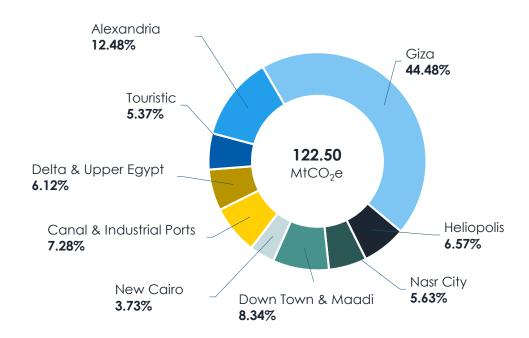
# 3.2.2. Calculations

# **Emissions**

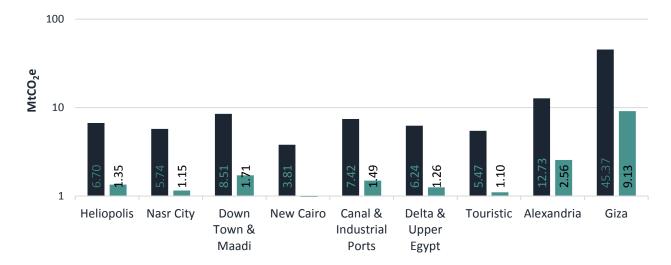
CIB branches have approximately consumed **551,892 m³** of water for the year 2018. Wastewater quantities were assumed to be **441,513 m³**, representing 80% of the water consumption.

# Water Supply and Treatment (MtCO<sub>2</sub>e) = Energy Consumption (kWh) x EF (MtCO<sub>2</sub>e/kWh)

The amount of water consumed by CIB branches and its treatment resulted in 122.50 MtCO₂e emissions. Water supply and wastewater treatment accounted for 0.34% of total emissions.



# **Water Consumption + Wastewater Treatment**





# 3.3.1. Methodology

# **Scope & Assumptions**

Office consumed paper and marketing materials (i.e. Flyers, applications, posters, ... etc.) falls under scope 3 (indirect emissions).

# **A4 Paper Consumption**

For all CIB branches, one type of office paper has been consumed in the reporting year 2018. Office paper type and specs have been assumed, as follows:

- Paper weight 80 g.
- Paper type: Uncoated.
- Paper end of life was included.

- ▶ 100% Raw materials, 0% Recycled.
- All paper used is imported.
- Paper size: A4 paper.

# **Marketing Materials**

The following assumptions were made for the paper used in marketing materials:

- ▶ 100% Raw materials, 0% Recycled.
- All paper used is imported.

- Paper size: A4 paper.
- Paper end of life was included.

No emission factor was found for laminated or glossy, therefore the same emission factor of A4 paper has been used to calculate the emissions of marketing materials.

# **Activity Data**

# **A4 Paper Consumption**

Information was obtained from CIB database, and data regarding paper quantities was gathered per branch for the year 2018. The CIB group purchased **28,010,990 A4** paper in the year 2018, this is equivalent to **140.05 tons** of paper.

# **Marketing Materials**

The total amount of marketing materials was provided by CIB, and the weight of each type of paper was calculated in respect to its size (flyers, posters, ...etc.). CIB issued the equivalent of **2.13** tons of paper in marketing materials





### **Emission Factor**



Emission factor boundaries are cradle to gate and usage, which includes the extraction of raw material and transport of raw material to the factory gate, product manufacturing and product transportation to retail. Emissions associated with landfill disposal were not considered since consumed paper is 100% recycled.

# 3.3.2. Calculations

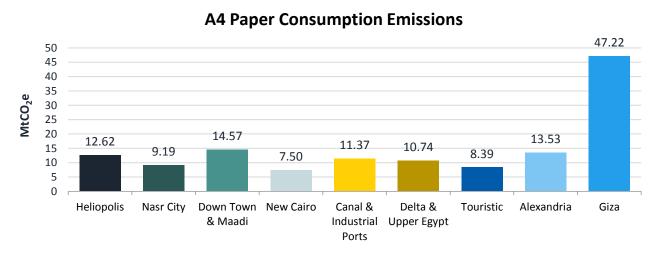
### **Emissions**

A4 paper consumption emissions were calculated by multiplying the weight (Kg) of paper used per branch (for 182 branches) in the year 2018 by the corresponding emission factor<sup>2</sup>. The emissions of marketing materials were calculated using the same emission factor and the total emissions were divided by the number of CIB employees, and then multiplied by the number of employees working in the included branches (182 branches) to find the contribution of these branches to the total marketing materials GHG emissions.

Paper Consumption Emissions (MtCO<sub>2</sub>e) = Weight of paper used (Mt) x EF (MtCO<sub>2</sub>e/ Mt)

The emissions from A4 paper purchase, for included CIB branches totaled **133.84 MtCO2e**, and the emissions per zone are shown in the below graphs:

All waste paper is recycled, this would have added emissions of 12.08 MtCO₂e if disposed in landfills.



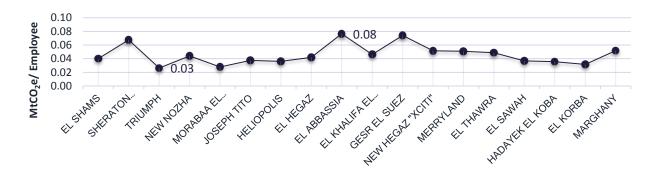
<sup>&</sup>lt;sup>2</sup> Emission factor from DEFRA, cross-validated against multiple sources



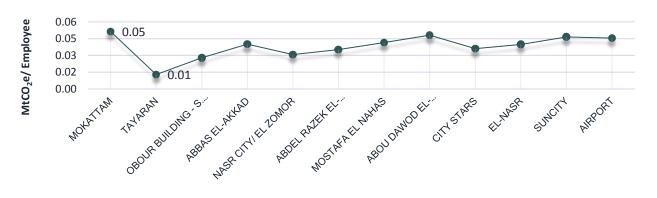
CIB Carbon Footprint 2018



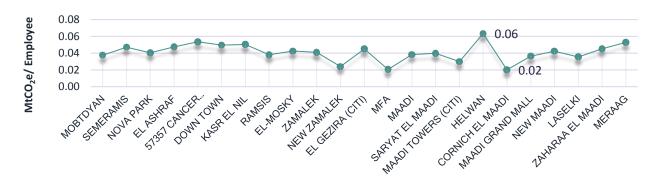
# **HELIOPOLIS**



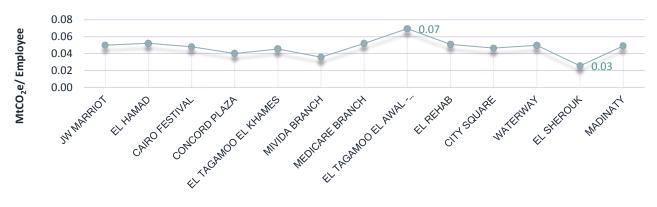
# **NASR CITY**



# **DOWN TOWN & MAADI**



# **NEW CAIRO**







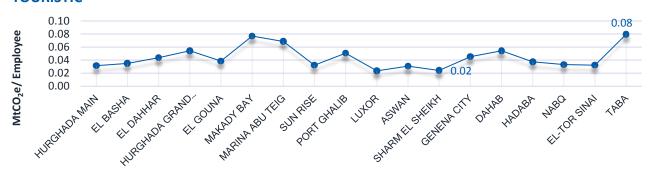
# **CANAL & INDUSTRIAL PORTS**



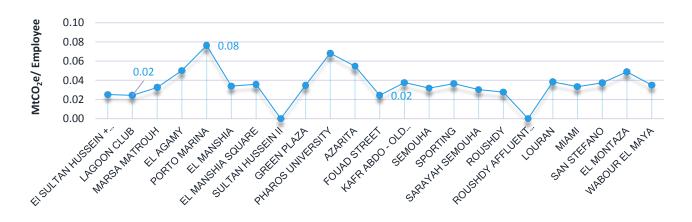
# **DELTA & UPPER EGYPT**



# **TOURISTIC**

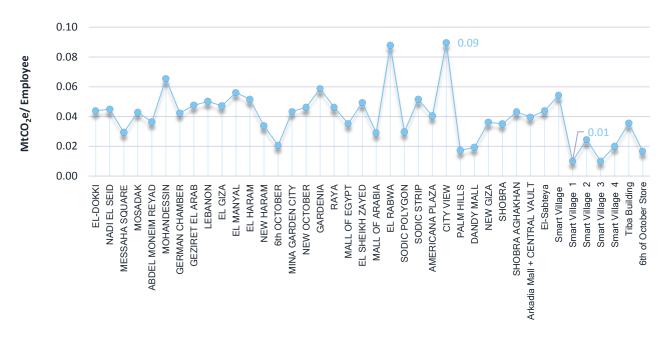


# **ALEXANDRIA**

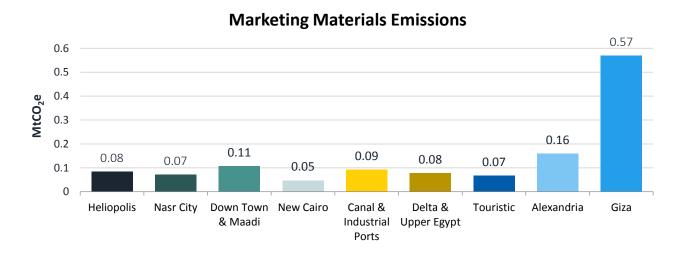




# **GIZA**



Emissions from 182 included CIB branches were around **2.04 MTCO₂e**, and the emissions per zone are shown in the below graph:







# 3.4.1. Methodology

# **Scope & Assumptions**

# Owned Vehicles

Fuel burning for owned vehicles falls under scope 1, as it is a direct emission from an asset owned and controlled by CIB. The emissions considered in this scope are from CIB owned vehicles and operated coasters.

# Employees Commuting

Emissions from employees commuting/ carpooling in their own vehicles (assumed to be an average type of car) are from transportation between their homes and work-site (CIB Branches), which falls under scope 3 (indirect emissions).

# Well to Tank (WTT)

To capture the maximum climate impacts of transportation, the Well-To-Tank emissions which falls under scope 3 (indirect emissions) were also calculated as part of CIB emissions.

# **Activity Data**

# Owned Vehicles

The number of coasters, their destinations, and the number of trips per day were obtained from the CIB database. The trip length travelled per coaster was approximated from Google Maps, and the fuel consumption each year was then calculated by assuming that the average coasters consume 13-15 liters of diesel to travel 100 Km.

As per CIB owned vehicles, the consumption of petrol was calculated by the share of each employee from the monthly bills for the reporting year 2018.

# Employees Commuting

The number of employees commuting in private cars is around 2,721 employees. It was assumed that the type of vehicles used for transportation is average cars. Data were calculated by estimating the distance travelled by the employees, based on the branch's geographical locations and surveys on the average distance between the employees' homes and their work-sites. The travelling distance percentages for commuting were estimated for 11 different distances from 5 Km to 55+ Km, and then multiplied by the number of working days in a year to get the total distance travelled.





### **Emission Factors**



Emission factor boundaries for transportation included fuel used in vehicles in addition to WTT, which includes activities from resource extraction through fuel production to delivery of the fuel to vehicle. Different emissions were used based on the vehicle type (Cars, coasters, ...etc.) and data available for these types, either the total distance travelled, or the total fuel consumed.

# 3.4.2. Calculations

#### **Emissions**

Owned Vehicles

The total fuel consumed by CIB's owned vehicles was multiplied by the corresponding emission factor to either calculate direct emissions or indirect emissions (WTT).

Owned Vehicles Emissions<sup>3</sup> (MtCO<sub>2</sub>e) = Fuel consumption (L) x EF (MtCO<sub>2</sub>e/L) Owned Vehicles WTT Emissions (MtCO<sub>2</sub>e) = Fuel consumption (L) x WTT-EF (MtCO<sub>2</sub>e/L)

The total fuel consumption of owned cars was 462,661 liters of petrol which corresponds to 1,019.28 MtCO<sub>2</sub>e, while the total consumption of the coasters was 487,870 liters of diesel for the year 2018, which corresponds to 1,274.13 MtCO<sub>2</sub>e. As per the total WTT emissions for CIB branches from petrol operated cars and coasters were 276.05 and 270.44 MtCO<sub>2</sub>e respectively.

# Employees Commuting

The distance travelled per employee per year was computed and the total distance travelled by all employees was then multiplied by the corresponding emission factor to calculate indirect emissions from the total distance travelled by CIB employees and WTT emissions.

Employees Commuting Emissions (MtCO<sub>2</sub>e) = Travelled distance (Km) x EF (MtCO<sub>2</sub>e/ Km) Commuting WTT Emissions (MtCO<sub>2</sub>e) = Travelled distance (Km) x WTT-EF (MtCO<sub>2</sub>e/ Km)

The total distance travelled by all employees was **11,886,638 Km**. which resulted in **2,183.34 MtCO<sub>2</sub>e**. While the total WTT emissions from employees commuting were **592.55 MtCO<sub>2</sub>e**.

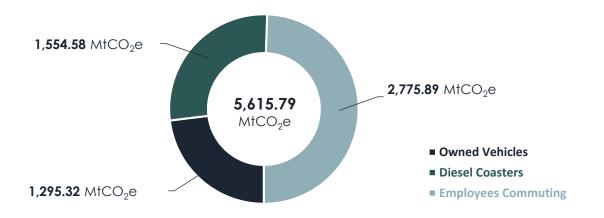
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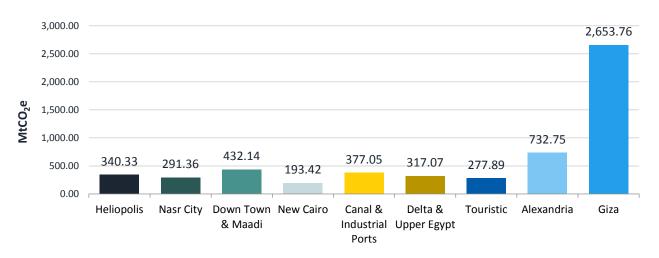
<sup>&</sup>lt;sup>3</sup> Emission factors from DEFRA



| FUEL BURNING                            | 182 CIB Branches   | Scope               |
|---|--------------------|---------------------|
| CIB Owned Vehicles:                     | 1,019.28           | 1                   |
| Diesel Coasters:                        | 1,274.13           | 1                   |
| Employees commuting                     | 2,183.34           | 3                   |
| Total MtCO₂e                            | 4,476.75           | MtCO <sub>2</sub> e |
| WELL TO TANK                            | 182 CIB Branches   | Scope               |
| , | 102 Old Braileries | 22262               |
| CIB Owned Vehicles:                     | 276.05             | 3                   |
|   |                    | ·                   |
| CIB Owned Vehicles:                     | 276.05             | 3                   |
| CIB Owned Vehicles:  Diesel Coasters:   | 276.05<br>270.44   | 3                   |



# **Transportation Emissions**







# 3.5.1. Methodology

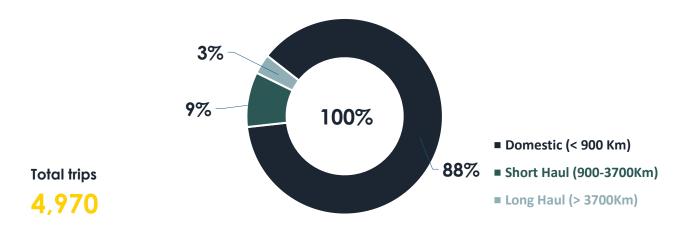
# **Scope & Assumptions**

Aerial transportation emissions fall under scope 3 (indirect emissions). The flights were classified into 3 categories. Domestic (less than 900 Km), short-haul (between 900 and 3,700 Km), and long-haul flights (over 3,700 Km).

# **Activity Data**

The details about all business flights for CIB employees for the year 2018 were obtained from the CIB database. Flight distances were obtained from online travel agencies.

Business Air Travel by type for all branches, year 2018



# **Emission Factors**



Travelling was classified into 3 flight categories (Domestic, short-haul and long-haul). Therefore, three

different emission factors related to fuel burning were used to calculate the emissions per passenger for each category of flights. Emission factors used for Air travel included Well to Tank (WTT) and radiative forcing emissions, which means they include the activities from resource extraction, through fuel production, to delivery of the fuel to the aircraft.





#### 3.5.2. **Calculations**

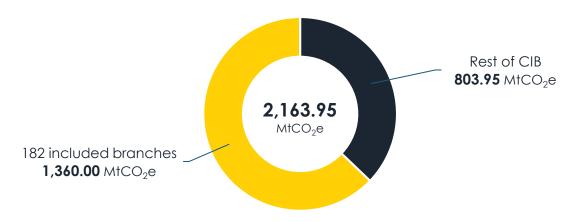
# **Emissions**

The emissions were calculated by multiplying the total distance travelled per passenger for each flight category (Domestic, short haul and long haul) by the corresponding emission factor.

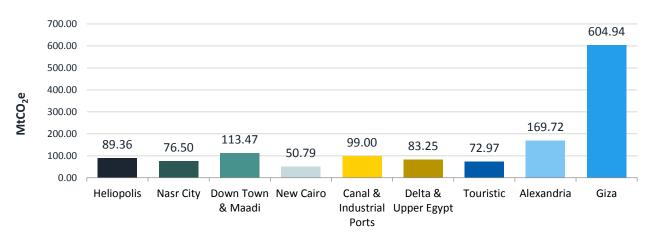
Air travel emissions (KgCO<sub>2</sub>e) = Distance travelled per passenger (pkm) x EF (KgCO<sub>2</sub>e/ pkm)<sup>4</sup>

The annual share of flight emissions of each CIB employee was then calculated by dividing the total emissions by the number of CIB employees, then multiplying it by the number of employees working in the included branches to find the contribution of these branches to the total air travel GHG emissions.

CIB's business air travel for all branches totaled 8,401,051 Km in the year 2018, this resulted in 2,162.95 MtCO₂e for all CIB branches in Egypt. The included branches accounted for 1,360.00 MtCO₂e which represents around 63% of the total air travel emissions.



# **Air Travel Emissions**



<sup>&</sup>lt;sup>4</sup> Emission Factors from DEFRA



# 3.6. SOLID WASTE DISPOSAL

# 3.6.1. Methodology

# **Scope & Assumptions**

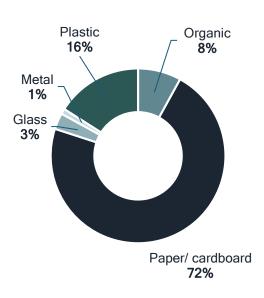
Generated solid waste disposal falls under scope 3 (indirect emissions). All types of waste generated at CIB were considered including paper, cardboard, organic, plastic, metal and glass.

# **Activity Data**

The British Standard for Waste management in buildings (BS 5906:2005) was used to estimate the waste generated at CIB due to unavailability of data. The BS helped in quantifying the waste tonnage, determining the waste types produced (paper, organic, plastic, glass, metal, ...etc.) and specifying the generation rate for employees and visitors/week in office buildings. Paper and cardboard waste represents up to 72% of total volume of waste generated.

The types and amounts of waste produced were estimated by multiplying the number of employees and visitors per branch by the waste generation rates (50L/employee/week, and 0.32 L/visitor respectively).

# Office Waste Composition by volume



## **Emission Factors**



Emission factors included waste handling, its transportation to landfills and the landfilling process<sup>5</sup>.

<sup>&</sup>lt;sup>5</sup> Emission factors from DEFRA



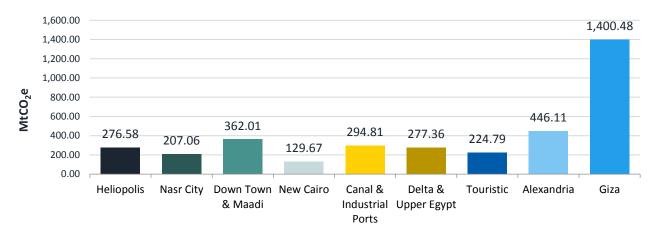
# 3.6.2. Calculations

# **Emissions**

Solid Waste Emissions (MtCO<sub>2</sub>e) = Quantity of waste/type (Mt) x EF/ type (MtCO<sub>2</sub>e/ Mt)

The amount of waste generated by CIB for the year 2018 was around **12,549.57 tons**, this amount resulted in **3,618.88 MtCO<sub>2</sub>e.** Solid waste transportation to landfills and the landfilling process were accounted for in the emission factor.

# **Solid Waste Emissions**





# 3.7.1. Methodology

# **Scope & Assumptions**

The amounts of refrigerants leakage fall under scope 1, as it is a direct emission from the facilities owned by CIB. This includes all types of ACs that exist in all CIB branches excluding leakage from fridges.

# **Activity Data**

The amount of leakage from ACs was obtained from CIB maintenance database. The database contained the amount (in kgs) of Freon R22 used in each branch.

## **Emission Factors**



# 3.7.2. Calculations

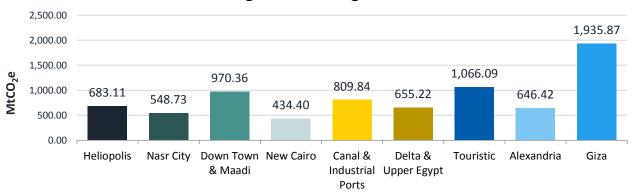
# **Emissions**

The total emissions were calculated by multiplying the total leakage mass by the emission factor for R22 gas.

# Refrigerants Leakage Emissions (MtCO<sub>2</sub>e) = Refrigerant leakage (Kg) x EF (MtCO<sub>2</sub>e/Kg)

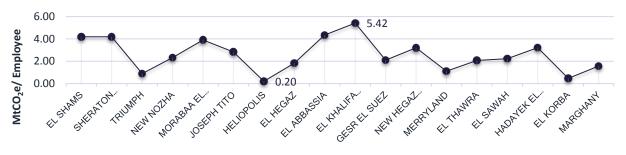
The calculations showed that the air conditioning units in the 182 included branches leaked around **4,282 Kg** of R-22 refrigerant, which corresponds to around **7,750.04 MtCO₂e** representing around **21.31%** and the second largest contributor to the branches emissions.

# **Refrigerants Leakage Emissions**

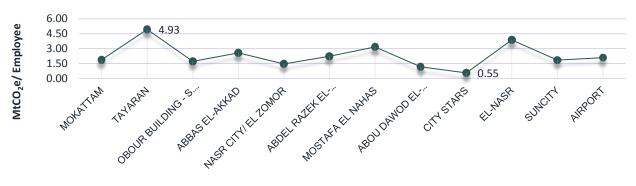




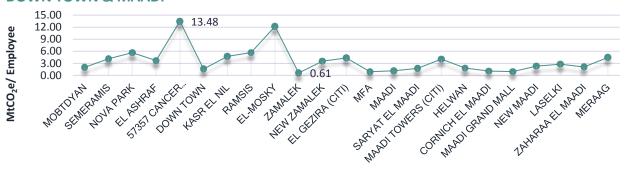
# **HELIOPOLIS**



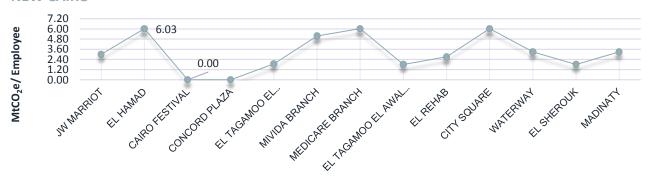
# **NASR CITY**



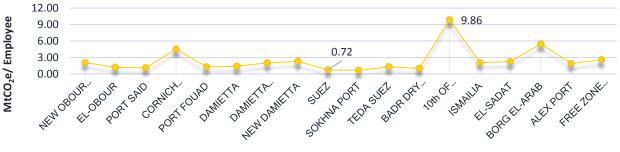
# **DOWN TOWN & MAADI**



# **NEW CAIRO**



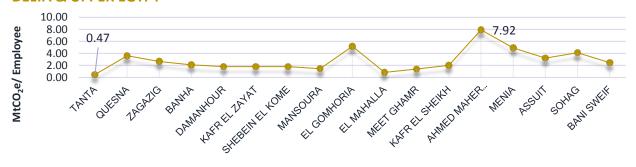
# **CANAL & INDUSTRIAL PORTS**

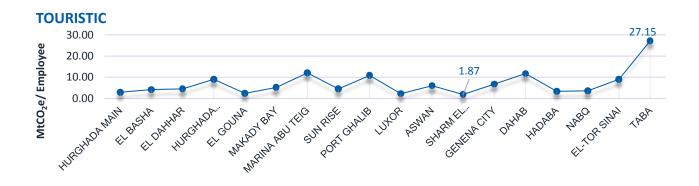






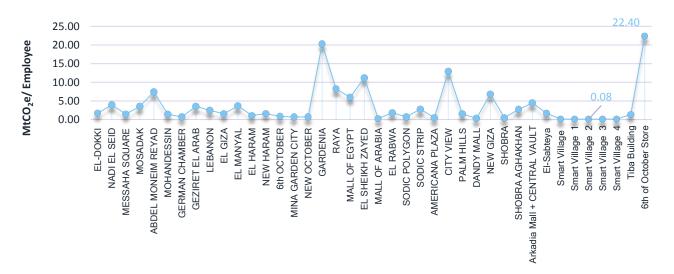
# **DELTA & UPPER EGYPT**



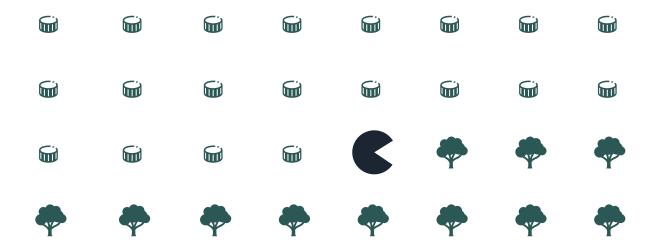


#### **ALEXANDRIA** 20.00 16.00 MtCO<sub>2</sub>e/ Employee 15.26 12.00 8.00 4.00 0.15 Waff add od. au fartissenii MARSA MARKOUN SARATAHSEMOUHA 0.00 LACOOMCLUS. ELMANSHIA ELMANSHIA CREENPLADA ROUSHDY. EISULTAN. ELACANY PORTO WANTA FOURD STREET SANSTERANO ELNONTALA PHAROS. SEMOUHA ROUSHOY LOURAN

# **GIZA**



# IMPACT ASSESSMENT





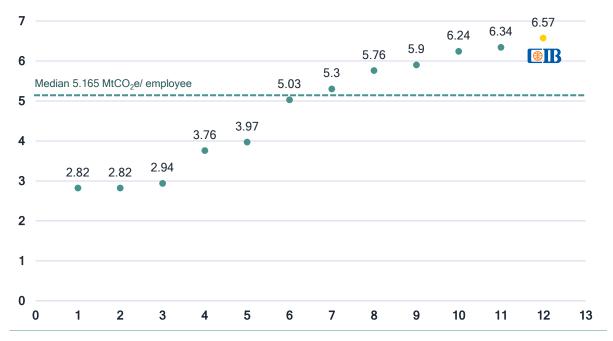
# 4. IMPACT ASSESSMENT

# **Scope 1 & 2**

Total numbers of employees in CIB studied branches are **4,231** employees. As per the total scope 1 emissions are **10,043.45** MtCO<sub>2</sub>e, while total scope 2 emissions are **17,770.76** MtCO<sub>2</sub>e. Therefore, scope 1&2 emissions per employee are **6.57** MtCO<sub>2</sub>e/employee.



According to CDP the median of the banking sector's scope 1&2 emissions is **5.165** MtCO<sub>2</sub>e/ employee and the international best practice is **2.82** MtCO<sub>2</sub>e/ employee.



The figure shows the banking sector's scope 1&2 emissions per employee for 11 different banks compared to CIB's scope 1&2 emissions per employee.

In order to reach the banking sector median, CIB must cut down reach the best practice, emissions should be reduced by **57%.** GHG equivalences Color was used to quantify the emissions reduction in everyday terms.

# 21% reduction

Cutting down scope 1&2 emissions by 21%, means reducing the emissions from **27,814.21 MtCO<sub>2</sub>e** to **22,000.22 MtCO<sub>2</sub>e**. This is equal to **5,840.98 MtCO<sub>2</sub>e** emissions reduction.

# **Equivalent to:**

657,250

Gallons of gasoline consumed

1,019

electricity use for one year

13,523

Barrels of oil consumed



14,281,125

Miles driven
by an average
passenger
vehicle

2,037

Tons of waste recycled instead of



land-filled

96,582







# 57% reduction

Cutting down the emissions by **57%**, means reducing the emissions from **27,814.21 MtCO₂**e to **11,971.72 MtCO₂e**. This is equal to **15,869.49 MtCO₂e** emissions reduction.

# **Equivalent to:**

1,785,697

**□**à

Gallons of gasoline consumed

2,767

electricity use for one year

36,741

Barrels of oil consumed



38,800,709

Miles driven by an average passenger vehicle 5,535

Tons of waste recycled instead of land-filled

262,405







Emissions from Scope 1&2 can be reduced to reach the median or the best practice by cutting down the emissions from either owned vehicle fuel burning (scope 1) or refrigerants leakage (scope 1) or purchased electricity (scope 2).

The total emissions from fuel burning, refrigerants leakage, and purchased electricity are **2,293.41** MtCO<sub>2</sub>e, **7,750.04** MtCO<sub>2</sub>e, and **17,770.76** MtCO<sub>2</sub>e respectively.



1 % reduction of total scope 1&2 emissions is equivalent to **278.14 MtCO₂e**, this represents around 12%, 3.59%, and 1.56% of the total emissions of each category.



# Owned vehicles fuel burning emissions

Owned Vehicles Emissions (MtCO<sub>2</sub>e) = Fuel consumption (L) x EF (MtCO<sub>2</sub>e/L)

278.14 MtCO<sub>2</sub>e is equivalent to **126,427 Liters** of petrol.





# Refrigerants leakage emissions

Leakage Emissions ( $KgCO_2e$ ) = Refrigerant leakage (Kg) x EF ( $KgCO_2e/Kg$ )

278.14 MtCO<sub>2</sub>e is equivalent to **154 Kg** of refrigerant leakage.





# **Purchased electricity emissions**

Electricity Emissions (MtCO<sub>2</sub>e) = Consumption (kWh) x EF (MtCO<sub>2</sub>

278.14 MtCO<sub>2</sub>e is equivalent to **526,780 kWh**.





# Scope 3

Categories where opportunities exist were identified and the equivalence for each percent of emissions reduction is illustrated below:



# Transportation emissions

Total emissions resulting from transportation emissions including WTT and employees commuting emissions are **5,615.79 MtCO₂e**. 1% emissions reduction is **56.18 MtCO₂e** and equivalent to



Tree seedlings grown for 10 years



# **Paper Consumption**



Paper consumption emissions are **135.13 MtCO<sub>2</sub>e**, 1% emissions reduction is **1,351.3 KgCO<sub>2</sub>e** is equivalent to



# Solid waste disposal

Solid waste disposal emissions are **3,618.88 MtCO<sub>2</sub>e**. 1% emissions reduction is **36.19 MtCO<sub>2</sub>e** and equivalent to



11.5

Tons of waste recycled instead of land-filled







# **External Assurance Letter**

DCarbon © Villa 78, road 282, Investment Village, Cairo, Egypt. www.dcarboneg.com

To the Chief Communications Officer, Cairo, 12 November 2019

Dcarbon is an Egyptian Sustainability, environment and climate change consultation firm registered under the law no. 159 for the year 1981 and its executive regulation. Dcarbon is a certified training partner to the Global Reporting Initiative (GRI), and a GRI Gold Community member. Our main focus is to assist organizations, public and private, in understanding and addressing their economic, environmental, and social impact. Our team of experts provides consultations and training on sustainable development and climate change issues throughout the MENA region.

Dearbon team of experts, have been engaged by the CIB to perform an independent limited assurance engagement on CIB Carbon Footprint Report for the year 2018.

The scope of assurance covered data and information for the period from 1<sup>st</sup> January 2018 to 31<sup>st</sup> December 2018. Selected information was assured throughout the report. Limited assurance was issued based on our review to the transparency of data and calculations, appropriateness of supporting data and assumptions, and overall credibility of the calculated annual carbon footprint.

# **Activities**

- Reviewing the methodologies, boundaries and functional unit and assure that they are clearly defined.
- Undertaking analytical procedures over Scope 1, Scope 2, and Scope 3 greenhouse gas emissions during the reporting period.
- Assessing the appropriateness of estimates and assumptions applied.

### Responsibilities

CIB is responsible for the determination of the GHG emissions within the defined scope and boundaries, based on the activity data collected and the emission factors used in calculations.

DCarbon's sole responsibility was to provide an independent verification on the accuracy of the GHG emissions reported for the period stated.

We do not accept or assume responsibility to anyone other than CIB for our work or for our conclusion.

## Conclusion

Based on the activities performed and the evidence received, the review has not found assumptions or calculations errors, and found that CIB has complied with International Standards and Guidelines stated in the report, in all material respects, in accordance to criteria.

ENG. Sherif Hafez, Climate Change Expert. United Nations Framework Convention on Climate Change (UNFCCC), Roster of Experts

Ehab Shalaby, Phd. Chief Executive Officer



