

# **ABOUT THE** BANK

#### **ARAB INVESTMENT BANK**

Established in 1974 under the supervision of the Central Bank of Egypt, aiBank began its operations in 1978 with an initial capital of USD 40 million, subsequently growing to EGP 1,987 million in 2020. Following an acquisition deal and decisions made during the October 10, 2021 general assembly, the bank received approval to increase its paid-up capital to EGP 5.3 billion. The new ownership structure accommodates both new and existing investors; EFG Holding S.A.E: 51%; Egypt's Financial Services and Digital Transformation Sub-Fund: 25%; and National Investment Bank: 24%

aiBank provides a full spectrum of services, including corporate and retail banking, investment, treasury services, and Sharia-compliant Islamic banking overseen by a Sharia-compliant body. The bank is actively involved in loan syndication services for significant national projects, contributing to economic growth. Recognizing the importance of small and medium enterprises (SMEs) in Egypt's development, aiBank actively supports their growth.

With a national presence through 33 branches, aiBank is committed to expansion, opening new branches and ATMs strategically. Emphasizing customer satisfaction, the bank strives to deliver unique and competitive services. Continuous investments in technology systems and human capital reflect aiBank's dedication to enhancing overall banking services.



# **ABOUT THIS** REPORT

This report details the carbon footprint generated by aiBank's headquarters in 2022 and covers Scope 1, 2 and relevant activities in Scope 3. This is aiBank's second assessment of greenhouse gas (GHG) emissions, making 2021 the base year to which all the activities in forthcoming years are compared to and referenced. 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.

# **CONTENTS**

6

ABBREVIATIONS

**16** 

OVERALL METHODOLOGY

8

**EXECUTIVE SUMMARY** 

INTRODUCTION

**26** 

18

PERFORMANCE EVALUATION

CARBON FOOTPRINT RESULTS

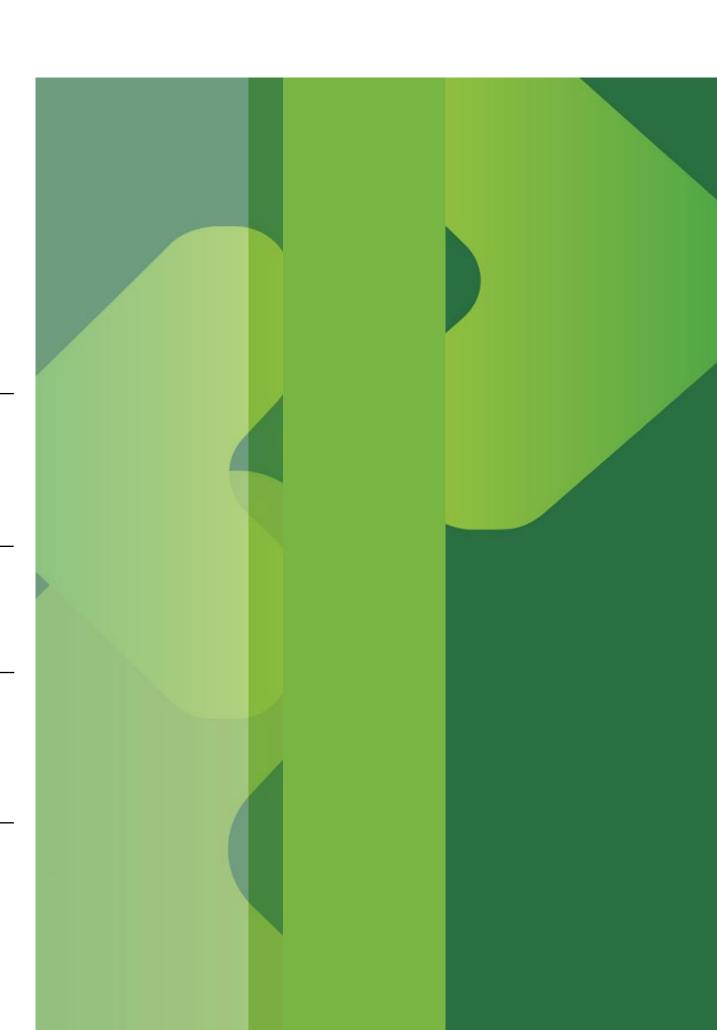
**14** 

**12** 

INVENTORY BOUNDARIES

**34** 

ANNEX



# **BANK**

# **ABBREVIATIONS** & ACRONYMS

aiB Arab Investment Bank
ATM Automated teller machine

By Base year

**CFP** Carbon Footprint

CO2e Carbon Dioxide equivalent

**DEFRA** Department for Environment, Food & Rural Affairs

Egp Emission Factor
Egp Egyptian pound

Egyptian Electric Utility and Consumer Protection Regulatory Agency

FTE Full-time Equivalent
GHG Greenhouse Gases
GWP Global Warming Potential

HVAC Heating, ventilating, and air conditioning;

IPCC Intergovernmental Panel on Climate Change

International Standard Organization

kg KilogramskWh Kilowatt hour

L Litre

Light-emitting diode

m² Square meter m³ Cubic meter

mtCO<sub>2</sub>e Metric tons Carbon Dioxide equivalent

MWh Megawatt hour

WBCSD World Business Council for Sustainable Development

WRI World Resources Institute

tons

WTT Well-to-Tank



# **EXECUTIVE SUMMARY**

The banking sector stands at the forefront of combating climate change, wielding substantial influence over financial resources and investment decisions. Banks, as key players, possess the power to mobilize capital and allocate funds towards that champion environmental conservation, renewable energy, and sustainable development.

In recognizing its role, aiBank acknowledges the responsibility to assess and mitigate its environmental impact, as evident in the carbon footprint report. This demonstrates aiBank's commitment to environmental stewardship, transparency, and accountability, recognizing that sustainability in banking extends beyond financial activities to include environmental considerations in daily operations.

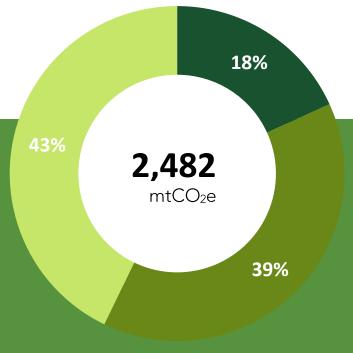
By adopting a proactive stance, aiBank aligns itself with the global movement towards a low-carbon economy, positioning itself as a responsible institution within the financial sector. It's important to note that this report specifically covers the headquarters; however, aiBank aims to broaden the scope of its reporting in the coming years, incorporating more branches for a more comprehensive assessment. This report serves as a foundational step in aiBank's ongoing commitment to advancing sustainability practices across its operations.

In this context, aiBank presents its second carbon footprint report, with the previous year, 2021, serving as the baseline for assessment. The development of this report follows established protocols and standards, including the Greenhouse Gas Protocol Guidelines, the 2006 IPCC Guidelines for Greenhouse Gas Inventories (with 2019 Refinements), and the ISO 14064-1:2018 Standards. This commitment to recognized methodologies ensures the accuracy, reliability, and transparency of our carbon footprint assessment, underscoring our dedication to robust environmental reporting practices.









The reporting period spans from January 1st, 2022, to December 31st, 2022, encompassing Scope 1, 2, and fundamental activities contributing to Scope 3 emissions.

The total emissions for aiBank's HQ for the year 2022 are **2,482 mtCO₂e**. Total Scope 1 direct emissions amount to 450 mtCO2e, representing 18% of total GHG emissions. Total Scope 2 indirect emissions which include only purchased electricity, amount to 963 mtCO₂e, representing 39% of total GHG emissions. Total Scope 3 indirect emissions amount to 1,069 mtCO2e, which constitutes 43% of total GHG emissions.

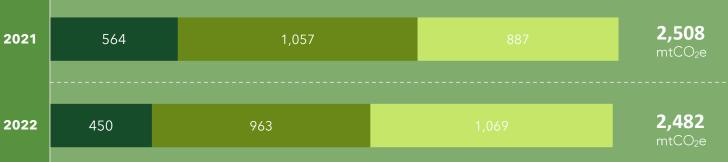
In the current reporting period, aiBank has attained a carbon intensity of 2.24 mtCO2e per Full-Time **Equivalent (FTE)** for Scope 1 + 2 emissions. This reflects a notable 3.4% decrease when compared to the carbon intensity in the base year. Additionally, in terms of carbon intensity per square meter (m<sup>2</sup>) for Scope 1 + 2 emissions, it stands at **0.14 mtCO<sub>2</sub>e/m<sup>2</sup>**, reflecting a 12.5% decrease from the base year. This shows the bank's commitment to reduce its GHG emissions.

Electricity intensity is one of the frequently employed metrics for international performance assessment. aiBank's electricity intensity has improved, with a current value of 201.9 KWh/m² compared to last year's 215.6 KWh/m². Although it still falls within the D scoring, the decrease indicates enhanced efficiency and lower electricity intensity compared to the preceding year.

Leveraging the insights gained from the carbon footprint report, aiBank has strategically formulated a comprehensive decarbonization plan. This plan goes beyond mere data analysis; it serves as a proactive roadmap aimed at effectively mitigating the bank's overall carbon footprint and substantially reducing greenhouse gas (GHG) emissions. By embracing industry best practices, aiBank positions itself as a forward-thinking leader actively contributing to the transition toward a low-carbon economy. This commitment extends beyond meeting regulatory requirements, signaling the bank's dedication to environmental stewardship and aligning with global sustainability objectives. The decarbonization plan embodies aiBank's pledge to continuously evolve its practices, ensuring a sustainable and resilient future.

# **CARBON INTENSITY**





963 mtCO2e **SCOPE 2** – Indirect Emissions **SCOPE 3** – Indirect Emission 1,069 mtCO<sub>2</sub>e

**SCOPE 1 –** Direct Emissions

08

450 mtCO<sub>2</sub>e

Scope 2 ■ Scope 3

■ Scope 1 ■ Scope 2 ■ Scope 3



# **SI**BANK

# **INTRODUCTION**

In the midst of the escalating climate crisis, the banking sector assumes a pivotal role in the global pursuit of sustainable and climate-resilient economies. As stewards of financial resources and decision-makers in capital allocation, banks wield transformative influence over the trajectory of climate change. This introduction delves into the multifaceted role of the banking sector in addressing climate change and spearheading initiatives to curtail greenhouse gas (GHG) emissions.

At the heart of the banking sector's role lies the power to channel financial resources strategically. Banks have the capacity to become key drivers of sustainability by directing capital toward initiatives that champion environmental conservation, renewable energy, and low-carbon technologies. Through responsible financing, banks can act as catalysts for the transition to a greener and more resilient future.

Climate change presents a spectrum of risks to businesses and economies. Banks, as risk managers, are increasingly integrating climate risk assessments into their operations. By identifying, assessing, and mitigating climate-related risks, banks contribute not only to the safeguarding of their investments but also to the overall resilience of the global financial system.

Banks possess a unique platform for advocacy and collaborative leadership. Engaging with industry peers, policymakers, and stakeholders, they can advocate for policies that promote sustainability. Active participation in global initiatives and forums dedicated to climate action positions banks as leaders in the collective effort to combat climate change.

Beyond external influence, banks are instigators of change within their own operations. Embracing sustainable practices internally—such as reducing energy consumption, adopting green technologies, and fostering a culture of environmental responsibility—banks set the standard for holistic sustainability that extends beyond financial portfolios.

Emerging collaborative frameworks, such as the Principles for Responsible Banking and the Task Force on Climate-related Financial Disclosures (TCFD), have become instrumental in steering and championing sustainable practices within the banking sector.

Furthermore, the recent inclusion of the Central Bank of Egypt (CBE) into the Network of Central Banks and Supervisors for Greening the Financial System (NGFS) signifies a significant global stride. This international alliance not only resonates with Egypt's climate strategy but also underscores its dedication to embracing optimal approaches within the realm of the green economy. The banking sector in Egypt is well-positioned to exert considerable influence in advancing these initiatives and ensuring their triumphant fruition.

Notwithstanding the commendable strides made, there remains a substantial body of work ahead. Banks grapple with the intricate task of accurately gauging and disclosing their carbon footprints, a critical element in fostering transparency regarding their sustainability endeavors. The following are the most common challenges:

**Resource Constraints:** Smaller banks or those with fewer resources may face challenges in allocating the necessary resources, both in terms of expertise and technology, to establish robust carbon reporting systems.

**Diverse Operations and Portfolios:** Banks typically have diverse operations, including retail and commercial banking, investment activities, and asset management. Each of these areas has unique challenges in terms of data collection and measurement. Harmonizing methodologies across different business lines can be complex.

**Data Accuracy and Availability:** Ensuring the accuracy of data related to energy consumption, travel, and other relevant activities within the bank's operations can be challenging. Banks may face difficulties in obtaining precise data, especially when dealing with decentralized or multinational operations.

**Scope 3 Emissions:** Banks often encounter challenges in assessing and reporting Scope 3 emissions, which encompass indirect emissions from sources not owned or controlled by the bank. This includes emissions from client activities, investments, and financing. Gathering accurate data on these indirect emissions can be complex and requires collaboration with clients and partners.

**International Operations:** Banks with a global presence may operate in regions with varying regulations, reporting standards, and emission factors. Harmonizing data from international operations to comply with global reporting standards can be a significant challenge.

**Regulatory Compliance:** Keeping up with evolving regulatory requirements and disclosure standards related to carbon reporting poses a challenge. Banks must navigate a complex landscape of regional and international regulations, each with its own set of reporting expectations.

Effectively navigating these challenges demands a comprehensive strategy. This entails substantial investments in advanced data management systems, collaborative efforts with industry counterparts to formulate unified methodologies and reporting standards, active engagement with suppliers and stakeholders, and the seamless integration of climate risk considerations into prevailing risk management frameworks. The successful overcoming of these hurdles not only fortifies banks' capabilities in managing their carbon footprints but also positions them as active contributors to forging a more sustainable future.

# INVENTORY BOUNDARIES

In line with the Greenhouse (GHG) Protocol to accurately report on GHG emissions, an organization must first define its organizational and operational boundaries.

# **ORGANIZATIONAL BOUNDARIES**

When it comes to disclosing emissions, organizations often decide between two primary methods: the control approach, where emissions from operations under direct

financial or operational control are reported, or the equity share approach, where emissions are reported based on the organization's equity share in these operations. In our case, we have opted for the operational control approach.

aiBank's organizational boundary is limited to the headquarters' building in Cairo, covering a gross area of 10,400 m<sup>2</sup> and accommodating 632 full-time employees.





Full-time Equivalent (FTE) 632

# **REPORTING PERIOD**

& BASE YEAR (BY)

The reporting period for the carbon footprint assessment spans from January 1st, 2022, to December 31st, 2022. This marks the second reporting year for aiBank, with 2021 as the base year (BY). It's important to note that the base year is subject to alteration in the future should there be any changes to the organizational boundaries.

# **OPERATIONAL** BOUNDARIES

Owned vehicles

**SCOPE 1** 

Direct emissions from sources that are owned or controlled by aiBank (i.e., any owned or controlled activities that release emissions straight into the atmosphere).

**PURCHASED ENERGY** 

**MOBILE COMBUSTION** 

**FUGITIVE EMISSIONS** 

Purchased electricity



**SCOPE 2** 

Indirect emissions associated with the consumption of purchased electricity from a source that is not owned or controlled by aiBank.

**PURCHASED GOODS & SERVICES** 



**FUEL AND ENERGY-RELATED ACTIVITIES** 

Well-to-Tank (WTT)



**WASTE GENERATED IN OPERATIONS** 



**SCOPE 3** 

Emissions resulting from other activities that are not covered in Scope 1 and 2. These indirect emissions are a result of aiBank's operations but are not directly owned or controlled by it.

**BUSINESS TRAVEL** 

Air travel



**EMPLOYEE COMMUTING** 



# **OVERALL METHODOLOGY**

# **PROTOCOLS**

# & STANDARDS

The carbon footprint assessment is conducted based on several international and widely applied standards, protocols, and guidelines specially developed for accounting and reporting, including but not limited to:

## The Greenhouse Gas (GHG) Protocol Guidelines:

Guidelines for the identification of emission sources and GHG that should be measured and reported. It also includes setting the boundaries for GHG emissions accountability, based on geographical, organizational, and operational limits.

- Corporate Accounting and Reporting Standard: provides guidance for companies to prepare their corporate-level GHG emissions.
- Corporate Value Chain (Scope 3) **Accounting and Reporting Standard**

ISO 14064-1:2018: Specification with guidance at the organization level for quantification and reporting

2006 Intergovernmental Panel on Climate Change (IPCC): Guidelines for Greenhouse Gas Inventories (with 2019 Refinements).







of greenhouse gas emissions and removals.

# **CALCULATION APPROACH**

analysis is performed in order to make sure the results

describing the radiative forcing impact of one unit of a

sixth Assessment Report (AR6 2021), the most recent stated in the Kyoto Protocol and their respective GWPs

# **EMISSION**

# **FACTORS**

Emission factors (EF) are representing the quantity of GHGs released to the atmosphere caused by a certain activity. The emission factor is usually expressed as the carbon dioxide equivalent (CO<sub>2</sub>e) emissions generated by a unit weight, volume, distance, or duration of the activity, e.g., CO<sub>2</sub>e/liter fuel consumed, CO<sub>2</sub>e/km driven or CO<sub>2</sub>e/kWh of purchased electricity etc. The emission factors were identified based on:

- **DEFRA:** Department for Environment, Food & Rural Affairs, UK 2022
- IPCC: Intergovernmental Panel on Climate Change
- **Country Specific Emission Factors:** Emission factor calculated specifically for Egypt

With regards to the country specific emission factor, the electricity emission factor is derived based on the Egyptian Electric Utility and Consumer Protection Regulatory Agency (Egypt ERA) published reports of monthly data of the grid electricity, where the emission factor is based on Egypt's actual fuel mix and fuel generation. The EF used for water supply and

Hydrofluorocarbons (HFCs)  Perfluorocarbons (PFCs)  7,390 – 12,200  Nitrogen trifluoride (NF3)  Sulphur hexafluoride (SF6)  Activity Data [unit]  Emission Factor [mtCO2e/unit]  [mtCO2e/unit]  Alagorian 124 – 14,800  7,390 – 12,200  25,200  25,200  Activity Data [unit]  Methane (CH4)  11xthe GWP of CO2  21xthe GWP of CO2  21xthe GWP of CO2  21xthe GWP of CO2  22xthe GWP of CO2  23xthe GWP of CO2  24xthe GWP of CO2  25xthe GWP of	Greenhouse Gas	100-Year GWP
Nitrous oxide (N <sub>2</sub> O)  Hydrofluorocarbons (HFCs)  Perfluorocarbons (PFCs)  7,390 – 12,200  Nitrogen trifluoride (NF <sub>3</sub> )  Sulphur hexafluoride (SF <sub>6</sub> )  Activity Data [unit]  Emission Factor   EF  [mtCO <sub>2</sub> e/unit]    Methane (CH <sub>3</sub> )   Methane (CH <sub>3</sub> )   Methane (CH <sub>3</sub> )   Con Dioxide (CO)   Dioxide (CO)   Con Dioxide (CO	Carbon dioxide (CO <sub>2</sub> )	1
Hydrofluorocarbons (HFCs)  Perfluorocarbons (PFCs)  7,390 – 12,200  Nitrogen trifluoride (NF3)  Sulphur hexafluoride (SF6)  Activity Data  [unit]  Emission Factor   EF   [mtCO2e/unit]  Alabor Dioxide (CO2)  Activity Data  [mtCO2e/unit]	Methane (CH <sub>4</sub> )	27
Perfluorocarbons (PFCs)  7,390 – 12,200  Nitrogen trifluoride (NF3)  17,400  Sulphur hexafluoride (SF6)  25,200  Activity Data  [unit]  Emission Factor  [mtCO2e/unit]  [mtCO2e/unit]  Ai  Cathon Dioxide  Cathon Dioxide	Nitrous oxide (N <sub>2</sub> O)	273
Nitrogen trifluoride (NF <sub>3</sub> )  Sulphur hexafluoride (SF <sub>6</sub> )  Activity Data  [unit]  Emission Factor   EF   [mtCO <sub>2</sub> e/unit]    17,400    25,200    25,200    213x the GWP of CO <sub>2</sub>   213x the GWP of	Hydrofluorocarbons (HFCs)	124 – 14,800
Sulphur hexafluoride (SF6)  25,200  Activity Data [unit]  Emission Factor   EF  [mtCO2e/unit]  25,200  25,200  Nitrous Oxide (Not) 213x the GWP of CO2 213x the GWP of	Perfluorocarbons (PFCs)	7,390 – 12,200
Activity Data [unit]  Emission Factor   EF  [mtCO <sub>2</sub> e/unit]  Emission Factor   EF  [atoon Dioxide Co	Nitrogen trifluoride (NF3)	17,400
Activity Data [unit]  Emission Factor   EF  [mtCO <sub>2</sub> e/unit]  Emission Factor   EF   Cathon Dioxide Co	Sulphur hexafluoride (SF <sub>6</sub> )	25,200 \frac{\fin}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fin}}}}}}{\frac{\frac{\fin}}{\fint}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}
[mtCO <sub>2</sub> e/unit]	[unit]	<b>^</b>
	and the second s	

**BANK** 

بنـــك الاستثمــــاز العـــربـــــي

ARAB INVESTMENT BANK



# **SCOPE 1**

# **DIRECT EMISSIONS**



### **MOBILE COMBUSTION**

291 mtCO2e

#### **Owned vehicles fuel burning**

Emissions attributed to the direct fuel consumption of aiBank's owned vehicles during the reporting period amounted to **291 mtCO₂e**. The total petrol fuel consumption was 124,400 liters. Specifically, the consumption of 117,900 liters of Petrol 92 contributed to approximately 276 mtCO2e, while the consumption of 6,500 liters of Petrol 95 resulted in emissions of around 15 mtCO<sub>2</sub>e.



### **FUGITIVE EMISSIONS**

159 mtCO<sub>2</sub>e

# Refrigerants leakage

Refrigerants play a vital role in cooling spaces through refrigeration cycles.

The utilized refrigerants included "R407A" and "R22". Over the course of the 2022 reporting period, a total of 40.5 kg of "R22" was used, which led to approximately 73 mtCO₂e in direct emissions. In addition, 40.5 kg of refrigerant type "R407A" was used, which led to approximately 86 mtCO₂e in direct emissions.

# **SCOPE 2**

# INDIRECT EMISSIONS



## **PURCHASED ENERGY**

963 mtCO2e

# **Purchased electricity**

For the 2022 reporting period, the total electricity consumption within the HQ amounted to 2,100 MWh leading to direct emissions of 963 mtCO₂e.

The peak electricity consumption and associated emissions occurred in October, with a consumption of 264 MWh, resulting in emissions of 121 mtCO₂e. Additionally, similar consumption levels were observed in June and November, each recording **252** MWh, corresponding to indirect emissions of 115 mtCO2e.

Conversely, the lowest electricity consumption was documented in April, with a consumption of 77 MWh, leading to indirect emissions of 35 mtCO₂e.



MONTHLY ELECTRICITY CONSUMPTION AND EMISSIONS

Electricity intensity is one of the frequently employed metrics for international performance assessment. After conducting thorough research on international banks and office spaces, a performance assessment criterion has been formulated, as demonstrated in the table below.

The electricity intensity has improved, with a current value of 201.9 KWh/m² compared to last year's **215.6 KWh/m²**. Although it still falls within the D scoring, the decrease indicates enhanced efficiency and lower electricity intensity compared to the preceding year.

	Score	(KWh/m²)
		< 128
	A	128 – 148
	В	148 – 168
	С	168 – 195
$\geq$	D	195 – 218
	E	> 218

# **SCOPE 3**

# INDIRECT EMISSIONS



## **PURCHASED GOODS & SERVICES**

120 mtCO<sub>2</sub>e

# Office supplies



All expenditures, encompassing office supplies (excluding paper), computers and computer equipment, and software, collectively amounted to a total expenditure of 67,685 USD and 12,147,965 EGP. This expenditure was associated with indirect emissions totaling 88 mtCO2e.

Office supplies	45 mtCO <sub>2</sub> e
Computers and computer equipment	36 mtCO <sub>2</sub> e
Software	7 mtCO <sub>2</sub> e

# **Printing supplies**

**27** mtCO<sub>2</sub>e



Emissions arising from the utilization of various printing supplies are categorized under this category. aiBank has reported emissions associated with the use of copy paper and ink cartridges. The HQ consumed 26 tons of paper, leading to emissions of 24 mtCO2e. Additionally, the HQ utilized a total of 565 ink cartridges, resulting in 3 mtCO2e.

#### Water use



Scope 3 emissions encompass various indirect emissions, including those associated with water use. In the reporting period of 2022, aiBank consumed a total of 15,018 m³ of water. This water use resulted in emissions equivalent to approximately 5 mtCO2e.

# **FUEL AND ENERGY-RELATED ACTIVITIES**

(not included in Scope 1 & 2)

#### Well-to-Tank (WTT)

To comprehensively assess the climate impacts associated with fuel burning activities, aiBank accounted for well-to-tank (WTT) emissions. These emissions, falling under scope 3, capture the full extent of environmental consequences arising from fuel consumption.

In the reporting period of 2022, the WTT emissions related to aiBank's owned vehicles reached 75 mtCO2e.

#### **BUSINESS TRAVEL**

#### Air travel & WTT





During the reporting period, aiBank employees collectively traveled a distance of 8,250 km, encompassing both domestic and international flights. The passenger-kilometer (p.km) metric for air travel reached 47,788 p.km. This comprehensive travel resulted in indirect emissions of approximately 9 mtCO<sub>2</sub>e, along with 1 mtCO<sub>2</sub>e in WTT.

The breakdown for international flights involved 7 passengers covering a total distance of 22,190 p.km, contributing to emissions of 4 mtCO<sub>2</sub>e and 0.4 mtCO<sub>2</sub>e in WTT. On the domestic front, 31 passengers covered a distance of 25,598 p.km during domestic flights, leading to emissions of 5 mtCO₂e and 0.5 mtCO₂e in WTT. This data reflects our commitment to transparently accounting for the environmental impact of our employees' travel activities.

#### **Hotel stays**

**18** mtCO<sub>2</sub>e



In the base year of 2022, employees spent a total of 376 nights in various hotels across 3 different countries. The total emissions resulting from these hotel stays amounted to approximately 18 mtCO2e. This figure represents the environmental impact of the accommodations and the associated carbon footprint.

# **WASTE GENERATED IN OPERATIONS**



## Solid waste disposal

3 mtCO2e



The category encompasses emissions stemming from the solid waste generated at aiBank's HQ. Throughout the year 2022, a total of **150 tons** of solid waste were efficiently managed through our closed-loop waste management system. In this system, materials are sent to a recycling facility to recycle and reuse the waste. This sustainable waste management approach has resulted in emissions amounting to 3 mtCO₂e.

#### **Wastewater treatment**



Within the Scope 3 category, wastewater treatment emissions are accounted for. Specifically, during the reporting period of 2022, the HQ was responsible for approximately 13,516 m³ of water that drained into the sewage system for treatment. The wastewater treatment process resulted in emissions totaling approximately 9 mtCO2e.

#### **EMPLOYEE COMMUTING**

835 mtCO2e

Rented coasters

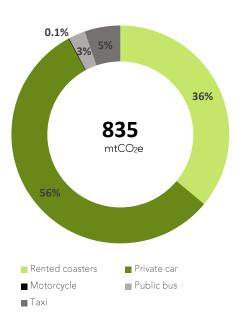
**304** mtCO<sub>2</sub>e

The combined distance traveled by 177 passengers utilizing rented coasters reached 2,506,752 p.km, resulting in indirect emissions totaling 242 mtCO2e, with an additional 63 mtCO₂e in WTT emissions. The data encompasses 15 destinations across Egypt over a total of 240 working days.

## **Commuting & WTT**

**531** mtCO<sub>2</sub>e

The remaining employees working in the HQ who don't use rented coasters (455 employees) traveled a collective distance of **2,495,283 km** and **170,403 p.km**, during the reporting year, leading to indirect emissions of **531 mtCO₂e**. Emissions calculations were based on assumptions developed from the typical commuting profile of employees in Egypt. Various modes of transportation were considered encompassing private cars, motorcycles, public buses, and taxis.



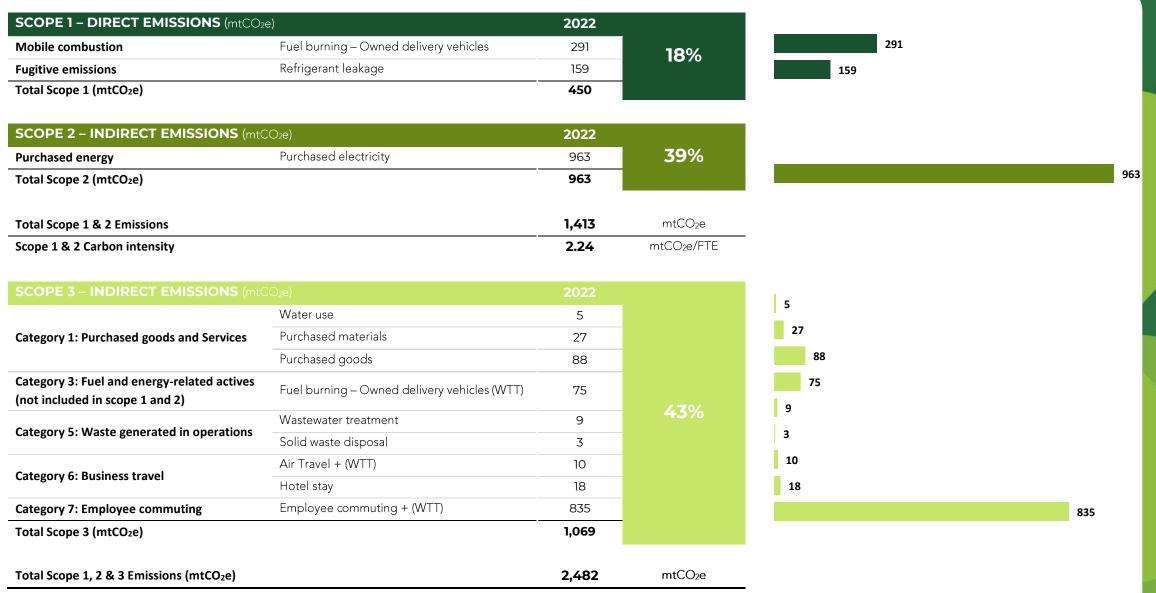
25

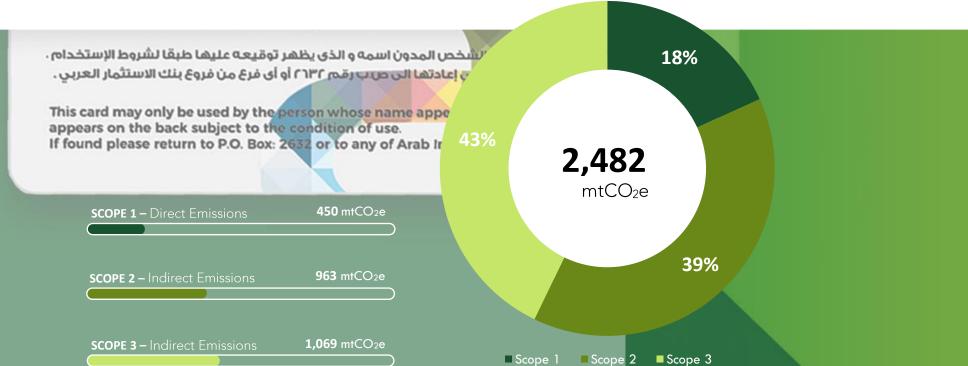
# **CFP RESULTS**SUMMARY

Total Scope 1 direct emissions in aiBank's HQ amount to **450 mtCO<sub>2</sub>e.** Among these, mobile combustion total **291 mtCO<sub>2</sub>e**, representing **65%** of overall Scope 1 emissions, while fugitive emissions represented the remaining **35%**.

Scope 2 emissions, including only purchased electricity, account for **39%** of the total emissions.

In Scope 3, among the five categories included, Category 7: Employee commuting accounts for the largest share of Scope 3 emissions at **78%**, followed by Category 1: Purchased goods and services at **11%**. The least contributing activity in this category is the waste generated from operations, representing **1%** of total Scope 3 emissions.







**BANK** 

# BANK

# **CARBON**INTENSITY

EARBON INTENSITY

2021
2.32 mtCO<sub>2</sub>e/FTE

2022
2.24 mtCO<sub>2</sub>e/FTE

Carbon intensity measures the emission rate of greenhouse gas (GHG) emissions in  $mtCO_2e$  over a specific period, relative to a relevant measure of activity. It's important to note that reported values of direct and indirect carbon emissions alone don't provide insights into an organization's resource consumption efficiency levels. Carbon intensity-based metrics, on the other hand, indicate the efficiency of an organization's resource use by assessing whether it emits less for a unit of output.

During this reporting period, aiBank has achieved an emissions intensity of **2.24 mtCO2e/FTE** for Scope 1 + 2 emissions. This metric serves as a crucial measure of aiBank's environmental efficiency. In comparison to the base year carbon intensity, there has been a **3.4% decrease**. This decrease is mainly attributed to the decrease in fugitive emissions and purchased electricity emissions. This highlights the bank's efforts towards sustainable and low-carbon operations.

# **BENCHMARKING**

Benchmarking is used to assess the performance of a certain organization over time and compare it against others within the same industry. In addition, benchmarking allows organizations to determine industry best practices, and identify further opportunities for improvement. Scope 1 & 2 carbon emission intensities (per FTE and per m²) are used to benchmark the performance of aiBank nationally, while electricity intensity per m² is used to assess it on a wider international level.

Published and unpublished data of a 20+ banks' headquarters were used to calculate the national average emission intensity (per FTE and m²). Accordingly, a methodology for a national rating has been developed. The table shows aiBank's national rank compared to other banks' headquarters in Egypt. aiBank has an emission intensity for the year 2022 of **2.24 mtCO2e/FTE** & **0.14 mtCO2e/m²** with a **"C"** and an **"A"** score, respectively.

7	Score	Emissions Intensity (mtCO <sub>2</sub> e/FTE)	Emissions Intensity (mtCO₂e/m²)
	> A	<1	<0.2
	В	1-2	0.2 - 0.4
	> c	2-3	0.4 - 0.6
	D	3-4	0.6 - 0.8
	E	>4	>0.8

8/22

This year, we conducted a comprehensive comparison of our business performance relative to the base year to evaluate our progress. We can confirm that there have been no changes in operational and organizational boundaries compared to the base year.

The total absolute emissions in Scope 1 & 2 for aiBank during the year 2022 have experienced a **13% decrease**, and the carbon intensity per Full-Time Equivalent (FTE) has been **decreased by 3.4%.** Additionally, in terms of carbon intensity per square meter (m²) for Scope 1 + 2 emissions, it stands at **0.14 mtCO**<sub>2</sub>e/m², reflecting a **12.5% decrease** from the base year.

In terms of the breakdown by scope, both Scope 1 and 2 have witnessed decreases of **20%** and **9%**, respectively. However, there is an increase of **19%** in Scope 3 emissions. These insights provide a nuanced understanding of our environmental impact and guide our ongoing sustainability efforts.

	<b>Base Year</b> (2021)	Emissions (2022)	I	ndicator
Scope 1 emissions (mtCO <sub>2</sub> e)	564	450	<b>\</b>	20%
Scope 2 emissions (mtCO <sub>2</sub> e)	1,057	963	<b>\</b>	9%
Scope 1 + 2 emissions (mtCO <sub>2</sub> e)	1,621	1,413	<b>\</b>	13%
Carbon intensity (mtCO <sub>2</sub> e/FTE)	2.32	2.24	<b>\</b>	3.4%
Carbon intensity (mtCO <sub>2</sub> e/m²)	0.16	0.14	<b>\</b>	12.5%
Scope 3 emissions (mtCO <sub>2</sub> e)	887	1,069	<b>↑</b>	20%
Total Scope 1,2 & 3 emissions (mtCO <sub>2</sub> e)	2,508	2,482	<b>\</b>	1.4%





The insights gained from this assessment contribute to the development of more sustainable business scenarios and the evaluation of future policies through a series of projects with varying levels of complexity. The decarbonization plan is designed to decrease the energy consumption of the organization's operations, ultimately reducing its overall carbon footprint. To tailor a specific decarbonization plan, a comprehensive carbon audit has been conducted to examine the environmental performance of the building. This audit focuses on evaluating five key categories, as outlined in the below table.

CATEGORY	DESCRIPTION
Building Construction	Building components (such as walls, roofs, windows, and doors) in relation to levels of heat gain/loss
Heating, Ventilation & Air Conditioning (HVAC)	Heating and cooling systems
Lighting	Loads related to lighting
Plugs	Plug loads resulting from various equipment and appliances
Water	Indirect energy sources related to water usage, water waste, and treatment

The carbon audit conducted has revealed key areas for improvement, paving the way for the development of a tailored decarbonization action plan for aiBank. Moving forward, the feasibility of selected projects will undergo thorough examination, encompassing a detailed analysis of critical aspects to determine their viability. Based on these evaluations, the necessary steps will be taken to advance the identified decarbonization initiatives.

Low cost & time to implement
Medium cost & time to implement
High cost & time to implement

PROJECT	DESCRIPTION	BENEFITS		
ISO certification for waste management	Obtain ISO 14001 certification for headquarters including an integrated waste management plan to monitor waste generation, increase the recycling rate and reduce the percentage of waste disposed in landfills.	<ul> <li>Material circularity</li> <li>Waste reduction and allowing for segregation, accurate quantification, and reuse/ recycling/ recovery</li> </ul>		
Maintenance to avoid refrigerants leakage	Conduct regular maintenance at head office utilizing refrigerants to identify any leakages and ensure proper reparations instead of loss of refrigerant leakages since refrigerant leakage reported the largest share of GHG emissions in Scope 1, accounting to around 66% of total Scope 1 emissions.	<ul> <li>Reduced indirect costs/Increased profit</li> <li>Identification of any leakages and avoid higher costs of reparation at a later stage</li> <li>Increased safety of workers</li> </ul>		
Green building guidelines	Develop and adopt green building guidelines including refurbishment of building such as insulation, draught proofing, efficient lighting and lighting control, HVAC operational parameters and control, external shading optimization, daylight and occupancy sensors and building energy and water efficiency and management. External shadings need to be cleaned regularly, as entered daylight is reduced due to accumulated dirt.	<ul> <li>Improved health and well-being of employees and customers</li> <li>Improved customer satisfaction</li> <li>Increased employee fulfillment</li> <li>Enhanced building performance with longer lifetime and less maintenance</li> </ul>		
Sustainability policies	Introduce and adopt sustainability policies for aiBank business & activities, with commitment to practices and standards to promote environmentally and socially responsible operations, incl. developing low-carbon business travel policy.	- Enhanced sustainability performance with reduced environmental impacts		
Capacity building	Educating employees about climate change, decarbonization and climate resilience.	<ul> <li>Enhanced capacity building of all employees and workers</li> </ul>		
Reduction targets	Set specific carbon emission reduction targets with due dates.	- Reduced long-term and short-term carbon footprint		
Water system efficiency	Water efficiency audit for all facilities to achieve reduced water usage and consumption. Install auto shut-off faucets.	<ul> <li>Reduced indirect costs/Increased profit</li> <li>Less water use contributes positively to a society going towards water scarcity</li> </ul>		
Maintenance of transport fleet	Ensure regular maintenance of all vehicles and equipment on a regular basis, with proper controls and maintenance. Install GPS for all vehicles for shortest routes. Utilize a tracking system for the vehicles and equipment to identify any defects	<ul> <li>Reduced indirect costs/Increased profit         Less pollution and enhanced air quality</li> <li>Increased safety of drivers and workers utilizing         the equipment</li> <li>Possible time savings and well-being of drivers</li> </ul>		
Bank cards	Design an innovative system in which expired banks cards are collected, and its plastic components are recycled.	<ul> <li>Material Circularity</li> <li>Waste reduction and allowing for segregation, accurate quantification, and reuse/recycling/recovery</li> <li>Value recovery</li> </ul>		
Green supply chain	Design Green Supply Chain policies by setting a criterion for new supplier selection, suppliers' monitoring, and auditing programs, minimizing waste and improve environmental footprint values. The traditional supply chain could be converted to a green one by taking environmental considerations into account at all stages, from product development and manufacturing to distribution and end customers.	<ul> <li>Compliance with international guidelines</li> <li>Potential for both short-term and long-term carbon footprint reduction</li> </ul>		
Carbon offsets	Invest in environmental projects to compensate for the share of aiBank emissions.	- Reduced overall carbon footprint		
Renewable energy	Utilize renewable energy sources (e.g. solar PV).	<ul> <li>Reduced indirect cost/ increased profit</li> <li>Less dependance on grid electricity and diesel generators, with reduced risk of power outage</li> </ul>		
Lighting systems efficiency	Install occupancy and daylight sensors. Use daylight more efficiently.	- Reduced electricity consumption and cost		



A base year is a reference year in the past with which current emissions can be compared. To maintain 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.

The amount of Carbon Dioxide that an individual, group, or organization lets into the atmosphere in a certain time frame.

Carbon dioxide equivalent or CO<sub>2</sub> equivalent, abbreviated as CO<sub>2</sub>e, is a metric used to compare the emissions from various GHGs based on their global-warming potential (GWP), by converting amounts of other gases to the equivalent amount of carbon dioxide with the same global warming potential.

Greenhouse gas emissions from facilities/sources owned or controlled by a reporting company, e.g., generators, blowers, vehicle fleets.

Specific value used to convert activity data into greenhouse gas emission values.

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. Besides the economic cost of lost commodities, fugitive emissions contribute to air pollution and climate change.

Greenhouse Gas Protocol is a uniform methodology used to calculate the carbon footprint of an organization.

Global Warming Potential is an indication of the global warming effect of a greenhouse gas in comparison to the same weight of carbon dioxide.

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.

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.

Determination of which facilities or sources of emissions will be included in a carbon footprint calculation.

Determination of which business units of an organization will be included in a carbon footprint calculation.

A refrigerant is a substance or mixture, usually a fluid, used in a heat pump and refrigeration cycle.

Direct 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).

Indirect emissions associated with the consumption of purchased electricity, heat or steam from a source that is not owned or controlled by the company.

Indirect emissions resulting from other activities that are not covered in scope 1 and 2. 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.

# & QUALITY

All the information used to compute the carbon footprint comes from aiBank's database. The data quality has been evaluated and presented below, with data from each business sector evaluated independently to enable better analysis and display of resolution and further explanations. The quality of the data is divided into 3 levels to assess possible areas of improvement for each activity.



Good, no changes recommended. Satisfactory, could be improved. Weak, priority area for improvement.

**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.

	SCP	P ACTIVITY		DATA	UNITS	RESOLUTION
	1	Mobile Owned		124,400	liters	Data was received as yearly petrol consumption
		combustion	vehicles	124,400	Petrol	for delivery vehicles
,		Fugitive	Refrigerants	81	l. a	Data was received as yearly recharge quantity of
		emissions	leakage		kg	each refrigerant
	2	Purchased	Purchased	2,100	Data was received	Data was received as monthly electricity
		energy	electricity			consumption.
			Water use	15,018	$m^3$	Data was received as monthly water use as a fixed monthly quantity.
		Purchased		26	tons	
	3	goods and	Printing	20	Paper	Data was received as yearly quantity of A4 paper
	3	services	supplies	565	units	and ink cartridges used.
		361 VICE3			Ink cartridges	
			Office	12,147,965	EGP	Data was received as yearly quantity.
			supplies	67,685	USD	Data was received as yearly quartity.
		Employee commuting	_	2,506,752	p.km	Data included distance traveled, number of
					Rented coasters	passengers, destinations, and duration of usage.
				170,403	p.km	
					Public bus	
	3			2,124,448	km	
	3				Private car	Data based on assumptions developed from the
				5,121	km	typical commuting profile of employees in Egypt.
					Motorcycle	
			_	4.0.075	km	
				168,075	Taxi	
	3	Business travel	Air travel	617,654	p.km	Data was received yearly encompassing both local and international flights, and includes details such as the country of take-off, and country of landing.
		-	Hotel stays	376	nights	Yearly total recorded, including country of stay.
		Waste	Solid waste	150	tons	Data was received as total solid waste disposed yearly (paper).
	3	generated in	generated in Wastewater		m <sup>3</sup>	Wastewater is assumed to be 90% of total water
		operations	treatment	13,516		usage.
			a catificiti			

# **RELEVANCY** & EXCLUSIONS

The following table describes the GHG emissions sources that were excluded from aiBank's GHG inventory due to several reasons, including: lack of data, and data that is beyond aiBank's operation and control and hence considered technically infeasible to attain. The exclusion rationale per activity has also been specified.

CAT#	ACTIVITY	DECSRIPTION	<b>EMISSIONS</b>	STATUS
1	Purchased goods and services	This includes office supplies including paper and ink, and computers, computer equipment and software. In addition to water use. The objective is to broaden the scope of coverage for purchased products and services, reflecting a commitment to comprehensively account for the environmental impact associated with aiBank's operational activities.	120	Relevant, calculated
2	Capital goods	Includes upstream emissions from the production of capital goods purchased or acquired by the reporting company in the reporting year.	-	Relevant, not yet calculated
3	Fuel and energy related activities (not included in Scope 1 and 2)	Includes Well-to-tank emissions from fuel burning in generators and owned vehicles.	75	Relevant, calculated
4	Upstream transportation and distribution	Transportation from aiBank's upstream supply chain.	-	Relevant, not yet calculated
5	Waste generated in operations	Includes emissions from the transportation of solid waste, the landfill emissions resulting from the disposal of waste, and emissions associated with wastewater treatment.	12	Relevant, calculated
6	Business travel	Includes emissions from air travel and hotel stays.	28	Relevant, calculated
7	Employee commuting	Transportation of employees between their homes and muting their worksites during the reporting year (in vehicles not owned or operated by aiBank).		Relevant, calculated
8	Upstream leased assets	This category is not directly relevant because all assets leased are already included in the company's scope 1 and 2 emissions.	-	Not relevant, explanation provided
9	aiBank's downstream transportation emissions include  Downstream transportation transportation of business cards and letters to clients,  armored vehicles, etc.		-	Relevant, not yet calculated
10	Processing of sold products	Includes emissions occurring due to bank issued cards.	-	Relevant, not yet calculated
11	Use of sold products  This should include emissions from the use banking and other sold products.		-	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 credit cards distributed to the customers.	-	Relevant, not yet calculated
13	Downstream leased assets  Emissions resulting from ATM transactions are measured as the power used during active and inactive ATM hours.		-	Relevant, not yet calculated
14	Franchises	This category is not relevant to aiBank's business and has therefore been excluded.	-	Not relevant, explanation provided
15	Investments	Emissions resulting from commercial loan activities and/or projects financed by aiBank.	-	Relevant, not yet calculated
		· · · · · · · · · · · · · · · · · · ·		

# **QUALITY ASSURANCE** STATEMENT

To aiBank's Board of Directors',

We have been appointed by aiBank to conduct carbon footprint calculations pertaining to aiBank's headquarters' operations for the period from 1st of January 2022 to the 31st of December 2022.

### **AUDITORS' 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.

#### **AUDITORS' RESPONSIBILITY**

In conducting the carbon footprint calculations, we have adopted the Greenhouse Gas Protocol Guidelines, IPCC Guidelines for Greenhouse Gas Inventories and the ISO 14064-1:2018 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 aiBank. 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 aiBank's raw data used in the carbon footprint calculations have not been thoroughly collected, verified, and truly represent aiBank's resource consumption in the reporting period related to all categories/aspects identified in this report. We do not assume and will not accept responsibility to anyone other than aiBank for the provided assurance and conclusion.

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

