



2023 Carbon Footprint Report

Driving Digital Sustainability



1. Executive Summary

In 2023, Giza Systems achieved a significant milestone by quantifying its greenhouse gas (GHG) emissions for the first time. This comprehensive analysis covered Scope 1, Scope 2, and selected categories of Scope 3 emissions, providing critical insights into the company’s environmental impact. The total GHG emissions for the year amounted to 10,948.76 metric tons of carbon dioxide equivalents (MTCO₂e).

Detailed breakdown shows that Scope 1 emissions accounted for 9,674.87 MTCO₂e, representing 88.36% of the total emissions. Scope 2 and selected Scope 3 categories¹ emissions made up 6.10% and 5.53% of the total, respectively.

The 2023 GHG emissions quantification represents an initial step in our journey towards reducing carbon emissions.

Guided by the comprehensive understanding of our current emissions profile, we must take tangible steps to decrease our impact on the environment. In the coming years, our plan is to set specific reduction targets in line with the Egypt National Climate Change Strategy 2050.

Giza Systems’ commitment to environmental sustainability is deeply integrated into its core business strategy and daily operations, aligned with Egypt’s National Climate Change Strategy 2050 and the Egyptian Financial Regulatory Authority (FRA) ESG guidelines. This alignment ensures that Giza Systems’ efforts contribute to both national and international sustainability goals, including the United Nations Sustainable Development Goals (UN SDGs).

Key sustainability initiatives include optimizing the operational efficiency of buildings, water-saving fixtures, and promoting recycling and efficient waste management practices to reduce waste generation.

Additionally, Giza Systems has developed robust plans to mitigate adverse environmental impacts from accidental releases of hazardous materials, ensuring a swift and effective response to any environmental emergencies.

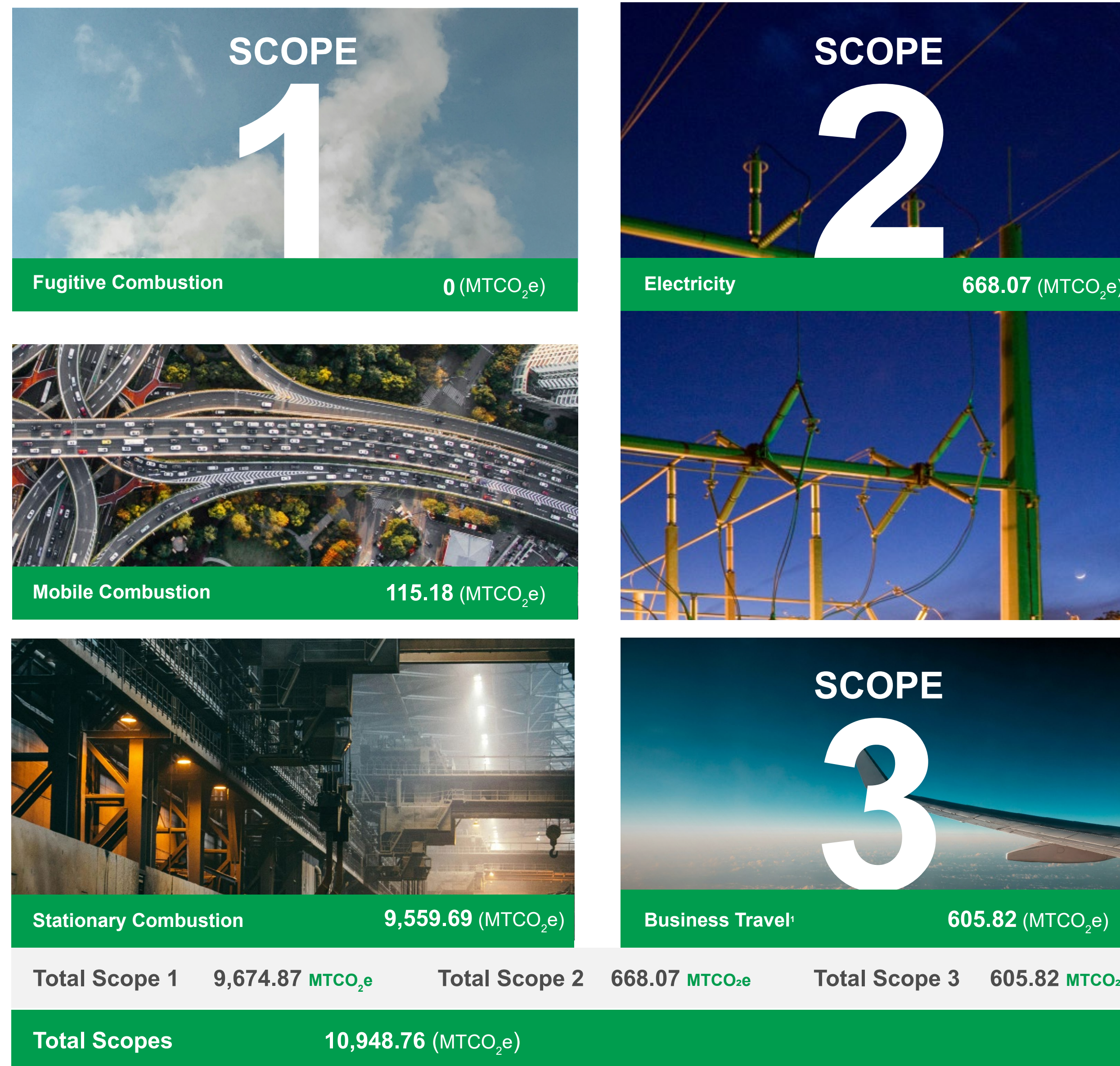
The company also prioritizes partnerships with vendors committed to minimizing environmental impacts, extending its environmental stewardship throughout its supply chain. Beyond operational practices, Giza Systems is dedicated to fostering a sustainability-driven culture within the organization, promoting awareness and engagement among employees, and ensuring robust governance over ESG risks and opportunities.

The company’s ESG strategy is dynamic and responsive to evolving market conditions and advancements in sustainability standards. By aligning its initiatives with national and international frameworks, Giza Systems aims to create shared value for all stakeholders and contribute to a more sustainable future. The first carbon footprint report highlights Giza Systems’ proactive approach to managing its environmental impact. Through detailed measurement and relevant initiatives, Giza Systems is making significant strides in reducing its GHG emissions and promoting sustainability.

The company’s comprehensive commitment to environmental stewardship, resource efficiency, and sustainable practices sets a benchmark for the industry and paves the way for a more sustainable tomorrow.



GHG Breakdown Emissions in Metric Tons of Carbon Dioxide Equivalents (MTCO₂e)



¹ Selected category: Business Travel entailing both travel methods and accommodation

2. Giza Systems at a Glance: Shaping Tomorrow's Landscape

At Giza Systems, we are driven by a passion for innovation and a commitment to excellence. With five decades of experience, we have emerged as a leading systems integrator and digital transformation enabler across the Middle East and Africa (MEA). Our journey began in 1974 with a vision to harness the power of technology to transform businesses and drive social and economic advancement in the regions we serve.

Since our beginnings, we have continuously evolved, embracing emerging technologies and staying ahead of the curve to meet the evolving needs of our customers. Over the years, the company has meticulously built its reputation on the pillars of innovation, quality, and excellence, pioneering comprehensive solutions across various sectors, including, but not limited to telecommunications, utilities, and oil & gas.

Throughout its history, Giza Systems has been a catalyst for digital transformation in the region, undertaking numerous landmark projects that demonstrate its pivotal role. By focusing on the development of tailor-made solutions to meet customers' unique needs, Giza Systems not only optimizes businesses' operations but also significantly contributes to the digital infrastructure of the regions it serves.

This dedication to excellence and innovation has earned Giza Systems numerous awards and certifications, establishing it as a trusted partner in the digital transformation journey of many organizations.

At the core of our endeavors lies a steadfast commitment to customer satisfaction. We take pride in our ability to understand our customers' challenges and deliver tailored solutions that exceed their expectations. Our customer-centric approach has earned us a reputation for professionalism and trustworthiness, ensuring that every project we undertake delivers reliable, efficient, and effective outcomes. We are proud to be one of the first companies in Egypt to adopt the UN's SDGs framework. Our purpose has evolved and expanded

to encompass a broader mission of changing lives, impacting society, and protecting the planet. Through our cutting-edge solutions and projects, we actively contribute to the sustainability of the areas where we operate. We focus our resources and technology on projects that accelerate sustainability and boost circularity, ensuring that our operations have a positive impact on the environment and local communities.

With a talented team of professionals and a spirit of collaboration, we are poised to continue driving innovation, transforming industries, and shaping the future of technology. Our recent acquisition by solutions by stc marks a new chapter in our journey, expected to further enhance our capabilities and propel us to new heights in technological innovation and service delivery. Together, we stand ready to navigate the complexities of the digital age and continue our mission of driving technological advancement and digital inclusivity across the MEA region.

A Story of Resilience Adapting, Evolving, Succeeding

As we adapt and evolve, Giza Systems continues to lead the way towards a thriving future

4

Regions
Covered



25

Operating
Countries



2000+

Satisfied
Customers



2400+

Employed
Personnel



3. Our Commitment to Sustainability

Integrating ESG in Our Corporate Strategy

Corporate Strategy

Crafted in early 2023, our FEOR Strategy is designed to reinforce our commitment to becoming the leading digital transformation enabler and systems integrator in the MEA region. We have developed a multifaceted approach built around 4 key pillars focused on achieving exceptional value to our customers, driving sustainable growth, and cementing our position as the industry leader.

The Essence of FEOR: Go Far Away Together

FEOR is not just a set of strategies; it is a mindset – a commitment to financial resilience, expansive growth, optimized operations, and creating a resilient, digitized, and sustainable organization. With FEOR, we are poised to go far beyond expectations, ensuring our journey is as impactful as the destination.

Financial Transformation

FEOR places a strong emphasis on meeting and exceeding our ambitious financial targets especially in the current dynamic market conditions. We have implemented multiple control measures to ensure the optimal allocation of our resources and maximize our long-term profitability.

Expansion into New Markets and Segments

We recognize the vast potential for digital transformation across the MEA region. Consequently, FEOR prioritizes the strategic expansion of our services and solutions into new geographic markets and consumer segments, positioning Giza Systems as the trusted partner of choice for digital transformation.

Operational Optimization

Underpinning our growth ambitions is a relentless focus on enhancing and optimizing our internal operations. We invest in state-of-the-art technologies, streamlining processes, and upskilling our talented workforce to drive greater efficiency, productivity, and responsiveness to customer needs.

Resilient Organizational Structure

We continuously work on strengthening our governance frameworks, risk management practices, and talent management strategies to foster agility, adaptability, and future-readiness in the face of a disruptive industry in nature.

Hyper Growth and Resilient Organization



The formulation of this strategy represents our inaugural recognition of ESG impact as a crucial consideration for the future of our company. Consequently, as a fundamental aspect of “Enable Resilient Organization,” we have established a key objective focused on “Sustainable Impact and Responsible Governance.” This initiative marks the initial step in integrating ESG principles into our organizational framework.

Our Journey from FEOR to ECO FEOR

Sustainability has already been embedded throughout FEOR and our company’s DNA since our inception. It was originally built to address a diverse range of sustainability aspects across our operations and decision-making processes. To solidify our commitment as a truly ESG-driven organization, we have integrated ESG principles into the core of our corporate strategy, ensuring they guide every aspect of our business.

Accordingly, to strengthen our sustainability practices, we are in the process of developing dedicated ESG pillars to complement our FEOR strategy. This will help us transform to “ECO FEOR”, a comprehensive strategy that aligns operational excellence with the goal of creating shared value and maximizing our positive impact on the environment and the communities in which we operate.

ECO FEOR supports our internal sustainability goals and also aligns with the broader objectives of key regional and international development agendas, including Egypt Vision 2030, Saudi Vision 2030 and the African Agenda 2063. Additionally, it is developed in accordance with multiple international frameworks such as the UN Global Compact (UNGC) and the United Nations Sustainable Development Goals (UN SDGs).



<p>Promote Environmental Sustainability</p>	<p>We aim to minimize our environmental footprint through a variety of initiatives, including reducing carbon emissions, promoting circularity and innovation, and implementing green technologies. Furthermore, our projects are designed with environmental stewardship in mind to minimize our diverse impacts and accelerate environmental sustainability in the regions where we operate.</p>
<p>Instill a Sustainability Driven Culture</p>	<p>We recognize that achieving long-term sustainability requires more than just policies and procedures; it necessitates a cultural shift within our organization. To this end, we are dedicated to instilling a sustainability-driven culture among our employees and stakeholders.</p>
<p>Oversee & Govern ESG Risks and Opportunities</p>	<p>We have established robust frameworks to identify, assess, and manage ESG risks across our operations, allowing us to mitigate potential negative impacts while capitalizing on opportunities that drive positive change.</p>

Giza Systems’ ESG strategy is dynamic and responsive to evolving market conditions, emerging opportunities, and advancements in ESG standards. Our ECO FEOR strategy serves as a compass to our intended path, but flexibility and adaptability will remain central to our approach as we navigate the dynamic business landscape while upholding our ESG commitments.

Foster an ESG-driven culture, thriving on corporate resiliency & responsibility

Doing Good

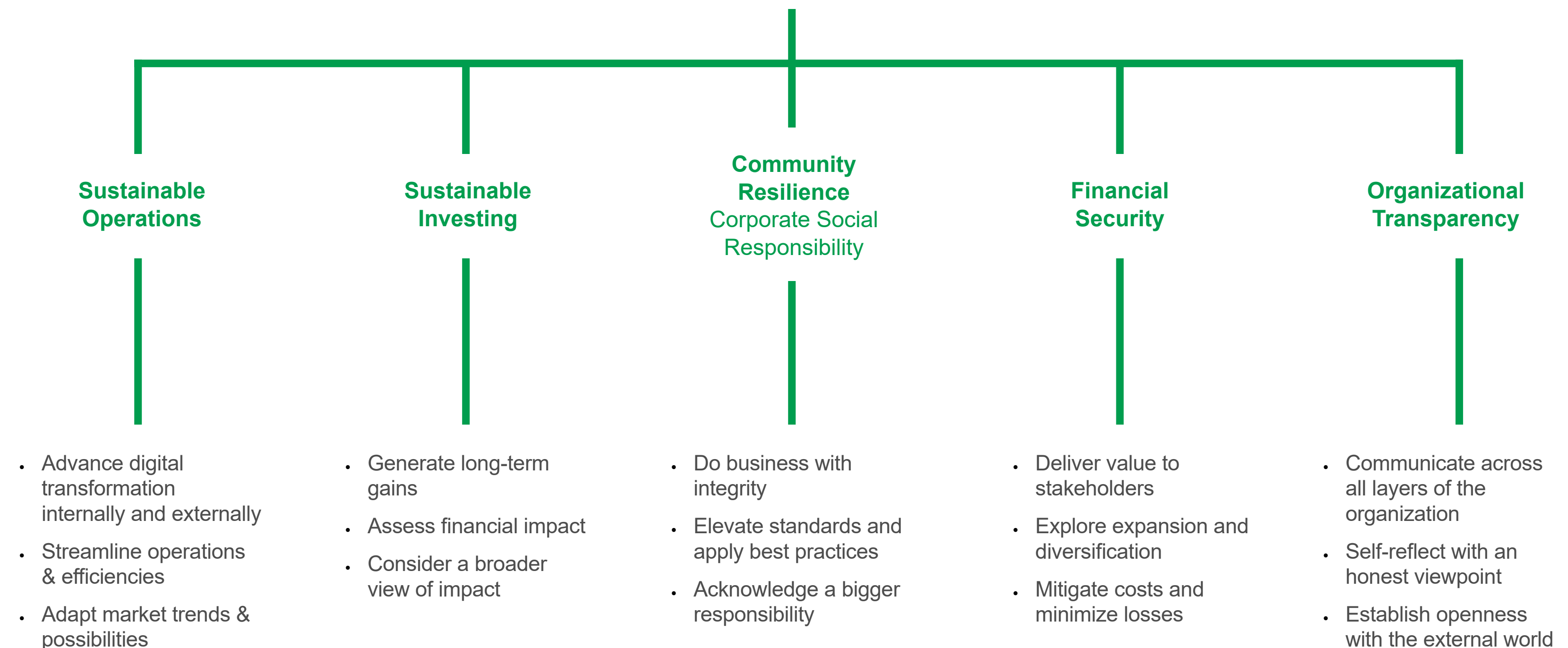
Being Good

Sustainability Pillars

Our ECO FEOR strategy is intricately linked to a series of sustainability pillars that form the foundation of our long-term aspirations. These pillars include sustainable operations, which emphasize reducing our environmental footprint and optimizing resource efficiency. Sustainable investing focuses on directing our capital towards ventures that promote environmental stewardship and social impact.

Community resilience underscores our dedication to fostering strong, supportive communities through various social responsibility initiatives. Financial security ensures that our business practices contribute to economic stability and growth, benefiting our organization, our customers, and the wider society. Finally, organizational transparency highlights our commitment to clear, honest, and open communication with all stakeholders, reinforcing trust and accountability. Together, these pillars guide us in our mission to fully integrate ESG principles into every facet of Giza Systems.

Sustainability Pillars



4. Methodology & Scope

Reporting Period

The reporting period for the carbon footprint assessment spans from January 1st, 2023 to December 31st, 2023.

As this is Giza Systems' first report for 2023, it serves as the baseline year against which all future years will be referenced.

Boundaries & Scope

In calculating its GHG emissions, and in line with the GHG Protocol, Giza Systems has decided to adopt the operational control approach. The carbon footprint encompasses Giza Systems Integration, located in Cairo, Egypt. This includes 1,813 Full-time Employees (FTEs).

The operational boundaries include Scope 1, Scope 2 and Category 6 (Business Travel) in Scope 3.

Basis of Calculation

The calculations and analysis for GHG emissions are based on recognized standards, protocols, and guidelines. Scope 1 emissions follow the Environmental Protection Agency (EPA) calculations methodology guidance and GHG Protocol, while Scope 2 and Scope 3 emissions are calculated using the United Nations Framework Convention on Climate Change (UNFCCC) and International Civil Aviation Organization (ICAO) calculations methodology guidance.

Emission Factors

Emission factors play a crucial role in converting activity data into carbon dioxide equivalent (CO₂e) emissions. Giza Systems utilized various emission factors, including Defra 2021 factors for non-OECD countries, Intergovernmental Panel on Climate Change (IPCC) default emission factors, and country-specific emission factors when available. These factors account for the Global Warming Potential (GWP) of each greenhouse gas and transform their impact into a common measure of CO₂e.

Main formula: GHG Emissions = Activity x Emission Factor

Data Quality & Completeness

Giza Systems has adopted a comprehensive and rigorous methodology to calculate its carbon emissions, ensuring accuracy and transparency in its sustainability reporting. The calculation process begins with the collection of primary data from various operational activities within the company. Scope 1 emissions encompass direct GHG emissions from sources owned or controlled by Giza Systems, mainly Mobile Combustion and Stationary Combustion. Scope 2 emissions account for indirect GHG emissions from the generation of purchased electricity consumed by the company. To ensure completeness and accuracy, Giza Systems uses emission factors sourced from recognized databases and applies them to the activity data collected. For Scope 3 emissions, Giza Systems gathered data for Category 6 (Business Travel).

Scope 1



Fugitive Combustion

Excluded

Reason of Exclusion

No leakage detected



Stationary Combustion

Included



Mobile Combustion

Included

Notes/Assumptions

- 17 out of 25 cars were included in calculations
- Cars were set as medium cars

Scope 2



Electricity

Included

Scope 3



Business Travel

Included

Other Scope 3 Categories

Excluded

Reason of Exclusion

Data collection limitations

5. Carbon Footprint Analysis

Scope 1

Mobile Combustion

In 2023, Giza Systems' vehicle fleet consisted of 25 on-road vehicles comprised of different makes, models and years. From these 25, we managed to collect data for 17. They have collectively traveled a total distance of 613,150 kilometers, using petrol as the fuel type. As a result, they emitted 115.18 metric tons of carbon dioxide equivalents (MTCO₂e).

Stationary Combustion

Giza Systems' stationary combustion emissions were the result of the energy consumption of its owned generator and a firefighting diesel pump. The generator consumed 2.53 m³ of diesel fuel, while the firefighting diesel pump used 3,463 m³ of gas oil. These fuel consumption figures translate into emissions of 9,559.69 MTCO₂e.

Scope 2

Electricity

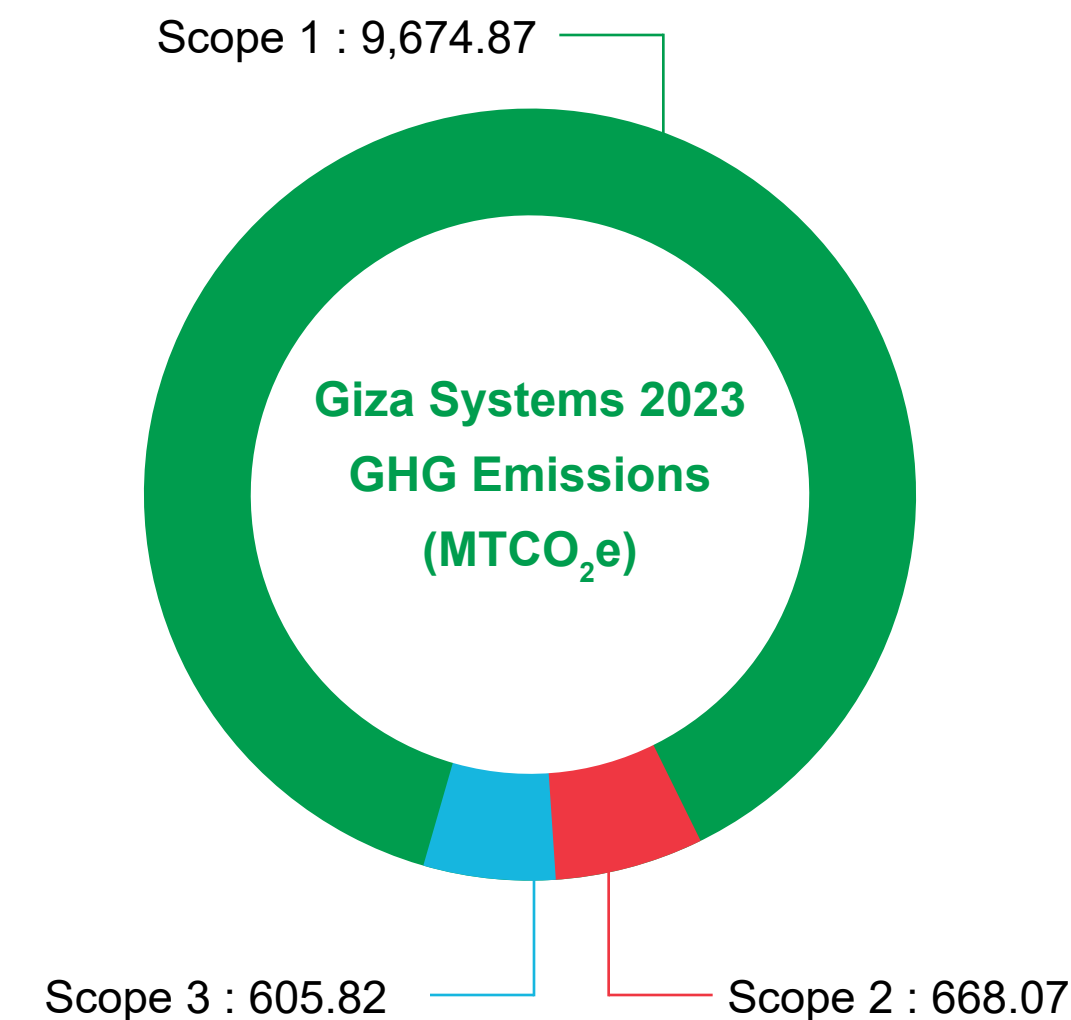
Giza Systems relies on electricity for its operations at its headquarters in Egypt. During the reporting period, we consumed a total of 1,645,942.00 kWh of electricity. Based on the Defra 2021 emission factor for Egypt, this electricity consumption resulted in 668.07 MTCO₂e emissions. This value highlights the company's reliance on electricity from non-renewable sources, indicating an area that can be improved through energy efficiency measures and potential adoption of renewable energy sources.

Scope 3

Business travel

We successfully collected data on business trips and related accommodations which totaled 605.82 MTCO₂e. Given our widespread geographical presence and the necessity for frequent employee travel, a total of 1,071 local and global business trips were conducted in 2023, resulting in emissions of 336.82 MTCO₂e.

Additionally, our traveling employees spent a total of 3,614 nights resulting in emissions of 269 MTCO₂e.





6. Carbon Emissions Mitigation

The analysis of our carbon footprint data has provided valuable insights, enabling us to identify specific areas where focused efforts can be made to effectively reduce emissions. Here are the key initiatives and efforts we have undertaken:

Scope 1: Minimizing Fuel Consumption and Optimizing Vehicle Operations

To ensure minimal fuel consumption, we conduct regular maintenance and inspections of our vehicles. Additionally, we utilize a vehicle tracking system to monitor and analyze driving behavior, optimize routes, and promote efficient fuel usage.

Scope 2: Enhancing Energy Efficiency in Facilities

To enhance energy efficiency, Giza Systems has implemented several measures within its facilities. These include installing motion detectors to reduce lighting energy consumption by activating lights only when needed, switching to LED lights, utilizing Internet of Things (IoT) systems for continual monitoring of energy consumption patterns, and providing facility monitoring systems for remote automation and control of electrical devices. Regular periodical maintenance is also conducted to optimize energy efficiency by addressing issues such as leaks or faulty equipment.

Scope 3: Mitigating Environmental Impacts

We recognize the environmental impact of commuting and business travel by employees. To mitigate these impacts, we have implemented efficient planning and control of work-related travel. This includes managing business trips and implementing journey management plans to eliminate unnecessary trips, reduce driving distances, and decrease fuel consumption.

Waste Management: Implementing Comprehensive Recycling Systems

Giza Systems has collaborated with leading waste management companies to implement comprehensive recycling systems. These programs cover a wide range of materials, including plastic bottles, paper, glass, cartridges, and batteries. Currently, 7.78% of the waste generated at our headquarters is recycled, and we have plans to increase this percentage in the future. We also adhere to strict protocols for handling hazardous waste to prevent environmental discharge, working with approved contractors who follow stringent guidelines.

At Giza Systems, we believe that every action counts in our mission to reduce carbon emissions and promote environmental stewardship. We invite all employees, partners, and stakeholders to actively participate in our sustainability initiatives.

Here is how we can contribute:

Be Energy Conscious: Implement energy-saving practices in our daily routines, whether at work or home.

Reduce, Reuse, Recycle: Engage in our recycling programs and seek ways to minimize waste in our operations.

Share Your Ideas: Share innovative ideas for improving our sustainability efforts with our team or through our dedicated channels.

Stay Informed: Keep up with our sustainability goals and progress by following our updates.

Together, we can make a significant impact on our environment and create a sustainable future for generations to come. Let us work hand in hand to drive positive change.

7. Future Goals & Targets

Giza Systems is committed to establishing ambitious sustainability targets that align with both global and regional environmental objectives. Our future goals are encapsulated in the “ECO FEOR” strategy, which builds upon our foundational FEOR corporate strategy by seamlessly integrating Environmental, Social, and Governance (ESG) principles. This comprehensive approach not only reinforces our commitment to sustainability but also positions Giza Systems as a frontrunner in digital transformation within the industry.

A cornerstone of our long-term aspiration is the ambitious goal of achieving net-zero emissions. This objective is supported by a multi-faceted strategy designed to significantly reduce greenhouse gas (GHG) emissions across all scopes. We are actively exploring a range of options, including innovative elimination techniques and effective offsetting strategies, to ensure that our operations contribute positively to the environment.

By setting these high standards and pursuing strategic initiatives, Giza Systems aims to lead by example, inspiring others in the industry to prioritize sustainability and embrace digital transformation for a greener future.

To reach this target, Giza Systems has set key strategies and action plan:



Energy Efficiency Measures

At Giza Systems, we are dedicated to the ongoing implementation of cutting-edge energy-saving technologies that have been previously outlined. Our commitment extends beyond mere compliance; we are proactively upgrading our infrastructure to enhance energy efficiency, which will lead to significant reductions in overall energy consumption and minimized emissions.

In our pursuit of sustainability, we are actively exploring innovative options to transition to green building practices to create a more energy-efficient environment. Furthermore, we are committed to adopting renewable energy sources, to further bolster our sustainability initiatives.

By prioritizing energy efficiency and embracing renewable energy, Giza Systems aims to not only reduce our carbon footprint but also set a benchmark for environmental responsibility within the industry. Our efforts reflect a holistic approach to sustainability, ensuring that we contribute positively to the environment while enhancing operational performance.



ISO Certification

We are actively pursuing ISO 50001 certification as part of our dedication to energy management; this internationally recognized standard provides a framework for organizations to establish, implement, maintain, and improve an energy management system. By adhering to ISO 50001, we can effectively manage our energy consumption, identify areas for improvement, and continuously enhance our energy performance.



Monitoring Systems

Our aim is to enhance our data collection processes and broaden the coverage of Scope 3 emissions by incorporating additional categories. This expansion will provide us with comprehensive insights into our mitigation efforts, enabling us to make informed decisions and take effective actions to reduce our environmental impact.



Measurable Targets

We have set our sights on establishing clear and measurable reduction targets that align with the Egypt National Climate Change Strategy 2050. By aligning our goals with this strategic framework, we aim to contribute to the broader national efforts in addressing climate change and achieving sustainable development.



Waste Management

We are committed to improving recycling programs and implementing waste reduction initiatives. Our goal is to increase our current recycling rate in the coming years, which currently stands at 7.78%, to align with our commitment to enhance sustainable waste management practices across all our operations.



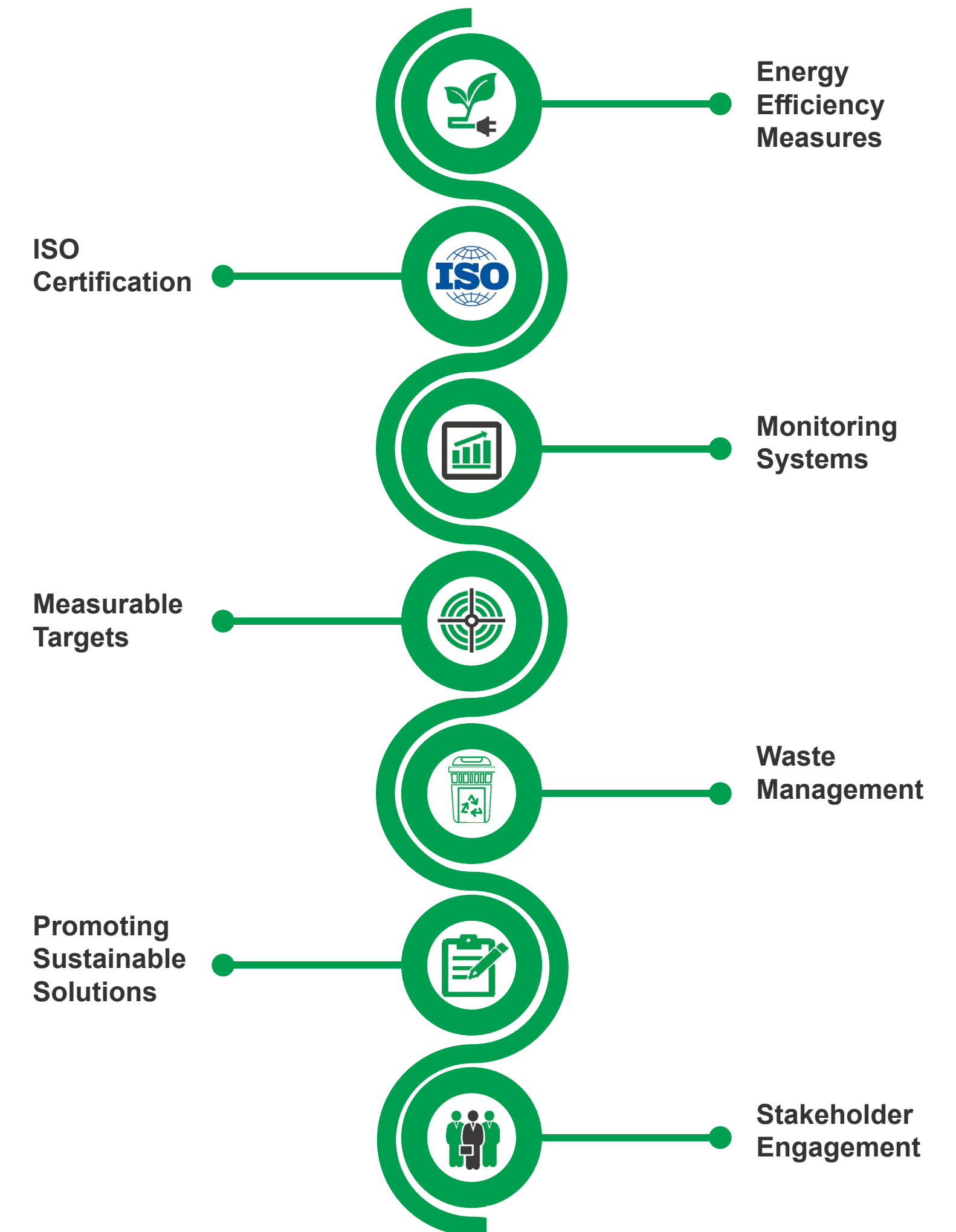
Promoting Sustainable Solutions

We strive to incorporate environmental considerations into our proposed solutions, taking into account factors such as energy consumption, water cooling systems, and end-of-life and recycling options. We intend to measure the environmental impacts of our solutions.



Stakeholder Engagement

We recognize the importance of strong relationships with our stakeholders, and we are dedicated to transparent communication and collaboration. This includes regular sustainability reports, stakeholder workshops, and partnerships with local communities to promote environmental stewardship and social responsibility.



Furthermore, Giza Systems is committed to fostering a sustainability-driven culture within the organization. The establishment of the Sustainability Champions program, where dedicated champions in each department advocate for ESG initiatives, ensures that sustainability is embedded into the company's operations and decision-making processes. This program plays a crucial role in driving internal engagement and accountability towards sustainability goals.

Overall, Giza Systems' future goals and targets reflect a comprehensive and integrated approach to sustainability. By setting ambitious targets, implementing strategic actions, and fostering a culture of sustainability, the company is well-positioned to achieve its vision of net-zero emissions and contribute to global environmental sustainability.

As we look to the future, Giza Systems is committed to continuing its efforts towards achieving net-zero emissions by 2050. This ambitious goal requires persistent innovation and a collective effort from all stakeholders. We call upon our people, partners, and the broader community to join us in this journey. Together, we can lead by example, inspire change, and ensure that sustainability becomes a way of life for everyone involved.





Glossary of Terms Used in the Report

- **Carbon Dioxide (CO₂):** A greenhouse gas emitted through combustion of fossil fuels and other processes, contributing to global warming.
- **Emission Factor:** A coefficient that quantifies the emissions or removals of a gas per unit of activity.
- **GHG (Greenhouse Gas):** Gases that trap heat in the atmosphere, including CO₂, methane (CH₄), nitrous oxide (N₂O), and fluorinated gases.
- **GHG Protocol:** The most widely used international accounting tool for government and business leaders to understand, quantify, and manage greenhouse gas emissions.
- **Scope 1 Emissions:** Direct GHG emissions from sources owned or controlled by the organization.
- **Scope 2 Emissions:** Indirect GHG emissions from the consumption of purchased electricity, steam, heating, and cooling.
- **Scope 3 Emissions:** Other indirect GHG emissions that occur in the value chain of the reporting company, including both upstream and downstream emissions.





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Giza Systems, a leading digital transformation enabler and systems integrator in the MEA region, designs and deploys industry-specific technology solutions for asset-intensive industries such as the Manufacturing, Telecoms, Utilities, Oil & Gas, Smart Mobility and other market sectors. Giza Systems' team of 2,400 professionals are spread throughout the region with anchor offices in Cairo, Riyadh, Dubai, Doha, Nairobi, Dar es Salaam, Kampala and New Jersey, allowing the Company to service an ever-increasing client base in over 25 countries.

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