

PRODUCT TRANSPORTATION REPORT

ACE COMPUTERS
FISCAL YEAR 2023

PRESENTED BY:



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1. Executive Summary

1.1 Company Overview

Ace Computers¹ is a technology solutions provider with a remarkable track record spanning nearly **40 years**. Our commitment to excellence has made us a trusted partner for federal, state, and local governments, academic institutions, and Fortune 500 companies. We take pride in delivering high-quality computer products, supplies, and services that are made in America. This report represents **Ace Computers** first, and baseline, GLEC Product Transportation Report.

Our Mission

At **Ace Computers**, our mission is to help clients **stay connected** and achieve **mission success** through industry-leading technology solutions. We understand the critical role that efficient and sustainable product transportation plays in achieving these goals.

GLEC and Sustainability

The **Global Logistics Emissions Council (GLEC)**² framework provides a standardized approach to measuring and reporting greenhouse gas emissions in the logistics sector. As a forward-thinking company, we recognize the importance of minimizing our environmental impact. By aligning with GLEC principles, we aim to contribute to a more sustainable supply chain.

Key Focus Areas

In this report, track the following key product areas related to product transportation:

1. **Forensic Computing:** Our secure workstations facilitate the acquisition and examination of digital evidence from various devices, supporting law enforcement and government investigations.
2. **High-Performance Computing (HPC):** Our HPC solutions leverage cutting-edge architectures and technologies to deliver optimal performance at an affordable price.
3. **Customized Desktops, Workstations & Servers:** We empower our clients to tailor their systems to their unique needs, regardless of order size.

1.2 Business Goals

When it comes to **Scope 3 emissions**, which encompass indirect greenhouse gas emissions from a company's value chain (including suppliers, customers, and other stakeholders), defining clear business goals is essential. Below are three potential business goals for **Ace Computers** in the context of Scope 3 emissions:



1. Reputation and Stakeholder Expectations:

- **Objective:** Enhance company reputation and meet stakeholder expectations.
- **Motivation:** Respond to the growing environmental consciousness of stakeholders, including customers and employees.
- **Actions:**
 - Implement robust GHG reporting regimes.
 - Set reduction targets and track performance over time.
 - Identify areas for feasible emission reduction.
 - Engage with stakeholders to demonstrate commitment to sustainability.



2. Risk Mitigation and Preparedness:

- **Objective:** Proactively address risks associated with value chain emissions.
- **Motivation:** Understand and manage risks related to emissions throughout the value chain.
- **Actions:**
 - Assess current product transport systems to determine areas for sustainability growth.
 - Increase awareness of operations in the value chain.
 - Identify risks and opportunities.
 - Prepare for possible future scenarios given the planet's limited resources.



3. Collaboration and Financial Benefits:

- **Objective:** Partner with value chain actors to reduce emissions and gain financial benefits.
- **Motivation:** Shed light on transport operations and drive energy and material savings.
- **Actions:**
 - Understand value chain partners better.
 - Collaborate with companies and other actors to reduce emissions.
 - Leverage energy and material efficiency for financial gains.

1.3 Accounting and Reporting Principles

Scope 3 accounting and reporting principles for Ace Computers are evaluated for different issues. In their Corporate Sustainability Report 2022, Ace Computers outlines their commitment to environmental responsibility and sustainability. Here are some key points:

Environmental Philosophy:

Ace Computers strives to improve the sustainability of their systems by incorporating best practices in waste management and IT product recycling. All employees contribute to environmental goals by reducing, reusing, and recycling products and waste.

GHG Emissions:

Ace Computers utilizes the protocols established by the WRI/WBCSD GHG (Greenhouse Gas) and collaborates with experts to assess their greenhouse gas emissions. For fiscal year 2022 (June 2021 to June 2022), Ace Computers' total greenhouse gas emissions were 6380 metric tons of CO₂ equivalent (CO₂e).

Scope 3 Emissions:

The Scope 3 Standard allows companies to assess their entire value chain emissions impact, including indirect emissions resulting from value chain activities. Ace Computers accounts for emissions from 15 categories of Scope 3 activities, both upstream and downstream of their operations. This framework supports strategies to partner with suppliers and customers to address climate impacts throughout the value chain.

Other Initiatives:

Ace Computers participates in the EPEAT program, which ensures environmentally friendly IT products. They are also an ENERGY STAR participant, offering energy-efficient computers. Responsible minerals sourcing and conflict minerals due diligence are part of their commitment to ethical practices.

For more detailed information, you can refer to Ace Computers' Corporate Sustainability Report 2022 [here](#).

Note: Ace Computers' Corporate Sustainability Report for FY2023 is currently being compiled and will be available on Ace Computers' website between Q2 and Q3 of 2024.



2. Introduction

2.1 Background

The **Global Logistics Emissions Council (GLEC)** is an industry-led initiative that aims to standardize and harmonize greenhouse gas (GHG) emissions accounting and reporting in the logistics sector. As the world grapples with the challenges of climate change, understanding and mitigating the environmental impact of product transportation becomes increasingly critical. The **GLEC Framework** provides a common language and methodology for assessing emissions across different modes of transport.

2.2 Purpose of the Report

This report serves as a comprehensive analysis of product transportation within the context of GLEC. It examines the environmental implications of various transport modes, identifies best practices, and offers recommendations for improving sustainability. By understanding the role of GLEC in shaping the future of logistics emissions, stakeholders can make informed decisions to reduce their carbon footprint and contribute to a more sustainable supply chain.



3. Scope and Methodology

3.1 Scope

The scope of this study encompasses the assessment of product transportation emissions for **Ace Computers**, a leading technology company specializing in high-performance computing solutions. The study focuses on the transportation of finished products from manufacturing facilities to end-users. The geographical scope includes both domestic and international transportation routes.

3.2 Methodology

The methodology employed for this assessment follows the **Global Logistics Emissions Council (GLEC) Product Transportation Framework**. The key steps in the methodology are as follows:

3.2.1 Data Collection:

- Detailed data on transportation activities were collected from **Ace Computers'** internal records, logistics partners, and carriers. This included information on shipment volumes, distances traveled, modes of transport (road, air, rail and sea), and fuel types used. Proxy data was used for air transport when it was unavailable from primary sources.
- Emission factors were sourced from GLEC emission calculation guidelines, considering different modes of transport and regional variations.

3.2.2 Data Analysis:

- The collected data were analyzed to quantify the greenhouse gas (GHG) emissions associated with product transportation.
- Where available, emissions were calculated for each transportation mode, considering factors such as fuel consumption, load factors, and distance traveled.

3.2.3 Scope of Assessment:

- The assessment covers **Scope 3 emissions** as defined by the Greenhouse Gas Protocol and GLEC Framework. These include **Ace Computers'** emissions from transportation and distribution.
- The study excludes emissions from upstream activities such as raw material extraction and manufacturing.

3.2.4 Assumptions and Limitations:

- The assessment assumes that transportation routes remain consistent over the study period.
- Variability in fuel efficiency due to factors like traffic conditions and weather is considered within the emission factors.
- Limitations include the availability of accurate data from the company database, logistics partners and the challenge of tracking indirect emissions.

3.3 Key Considerations

The following considerations guided the scope and methodology of this assessment:

Accuracy and Reliability:

- Efforts were made to ensure data accuracy and reliability by collaborating with the company database manager, with logistics partners and using standardized emission factors.
- Limitations in data availability were acknowledged, and conservative assumptions were made where necessary.

Comparability:

- The methodology aligns with GLEC guidelines, allowing for comparability with other companies' assessments.
- **Ace Computers'** results can be benchmarked against industry peers.

Transparency:

- The methodology and data sources are transparently documented to facilitate peer review and stakeholder engagement.



4. GLEC Overview

In the dynamic landscape of global logistics, understanding and mitigating greenhouse gas (GHG) emissions associated with product transportation is paramount. The **Global Logistics Emissions Council (GLEC)** plays a pivotal role in harmonizing emissions reporting and driving sustainability across multi-modal supply chains. GLEC's protocols and standardizations matter for companies like **Ace Computers**.

4.1 What is GLEC?

The **GLEC Framework** serves as the industry's primary guideline for calculating and reporting logistics emissions. Imagine comparing GHG emissions across different transport modes or suppliers—like comparing apples with oranges. GLEC recognized this challenge and developed a standardized approach to harmonize emissions calculations. Here's what you need to know:

1. **Methodology:** The **GLEC Framework** provides a consistent method for measuring and reporting logistics emissions. It aligns with ISO 14083 standards, ensuring uniformity in emissions accounting across the industry.⁶
 2. **Multi-Modal Focus:** Whether it's road transport, air freight, rail freight or maritime shipping, GLEC covers all modes of transportation. Shippers, carriers, and logistics service providers can implement it to track emissions effectively.
 3. **Climate Goals:** Designed to inform business decisions, the **GLEC Framework** helps companies reduce emissions and progress toward climate goals. It works seamlessly with other initiatives like the Greenhouse Gas Protocol, UN-led Global Green Freight Action Plan, and CDP Reporting.⁷
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4.2 Why is GLEC Important for Product Transportation?

1. **Demonstrating Leadership:**
 - By adopting the **GLEC Framework**, companies like **Ace Computers** demonstrate leadership within their sector. Influencing suppliers to follow suit, they prove their commitment to sustainability promises.
 - Customers recognize and appreciate this commitment, reinforcing **Ace Computers'** reputation as a responsible and forward-thinking organization.
2. **Informed Decision-Making:**
 - GLEC encourages using GHG emissions as a metric for sustainable freight transportation decisions. **Ace Computers** can evaluate different transport options based on their environmental impact.

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- Supply chain optimization becomes more effective when emissions data informs decisions. **Ace Computers** can choose routes, carriers, and modes that minimize their carbon footprint.

3. Performance Management:

- Managing transportation performance is critical. The **GLEC Framework** allows **Ace Computers** to track emissions, assess efficiency, and identify areas for improvement.
- By monitoring the impact of emission reduction measures, **Ace Computers** ensures continuous progress.

4. Transparency and Accountability:

- **Ace Computers** can inform customers about the emissions reductions achieved through their transportation choices. Transparency builds trust and reinforces the company's commitment to sustainability.
- Staying ahead of regulatory requirements ensures compliance and proactive environmental stewardship.

5. Updated Framework:

- The **GLEC Framework** evolves alongside external developments. Version 3.0 incorporates new information, including findings on higher emissions from fossil fuel production.
- **Ace Computers** benefits from an up-to-date tool aligned with industry standards and best practices.⁸

5. Key Findings

In the **GLEC Product Transportation report for Ace Computers**, several key findings emerged from the analysis of their product transportation practices. These findings provide insights into emissions, energy efficiency, environmental impact, and opportunities for emission reduction.

5.1 Data^{9&10}

Table 1

GHG Emissions			
Total Emissions by Transportation Mode Type			
Transport Type	CO2 (kg)	CH4 (g)	N2O (g)
Medium- and Heavy-Duty Truck	4088978.292	38484.50157	113048.2234
Light-Duty Truck	24.41943	0.67977	0.62748
Passenger Car	0	0	0
Rail	0	0	0
Aircraft	9028009.492	0	278083.3869
Waterborne Craft	0	0	0
Total CO2 Equivalent Emissions (metric tons) - Product Transport		13234.5	mtCO2e

Table 2

Total GHG Intensity Value			
	CO2 kg	tkm	GHG Intensity
Medium/Heavy-duty Truck	4088978.0	577206.83	7.084077643
Light-Duty Truck	24.0	3.33	7.207207207
Aircraft	9028009.0	20815433.96	0.433717069

Table 3

Medium/Heavy-Duty Road Transport WTW			
Item	GHG intensity (WTW) CO2 kg/tkm	Customer specific tkm	WTW GHG emission (kg CO2 e)
Medium/Heavy-duty Truck	7.084077643	57206.83	405257.6255
Total emissions kg CO2 e			405257.6255
Input data type	Primary data and secondary proxy data		
Mode coverage	Road		
Data verification statement	Data has been independently verified by a 3rd party		
Period covered	January 1, 2023, to December 31, 2023		

Table 4

Light-Duty Truck Transport WTW			
Item	GHG intensity (WTW) CO2 kg/tkm	Customer specific tkm	WTW GHG emission (kg CO2 e)
Light-Duty Truck	7.207207207	3.3	23.78378378
Total emissions kg CO2 e			23.78378378
Input data type	Primary data and secondary proxy data		
Mode coverage	Road		
Data verification statement	Data has been independently verified by a 3rd party		
Period covered	January 1, 2023 to December 31, 2023		

Table 5

Long Haul Air Transport WTW			
Item	GHG intensity (WTW) CO2 kg/tkm	Customer specific tkm	WTW GHG emission (kg CO2 e)
Long Haul Air	0.433717069	24390847.96	10578727.08
Total emissions kg CO2 e			10578727.08
Input data type	Primary data and secondary proxy data		
Mode coverage	Air		
Data verification statement	Data has been independently verified by a 3rd party		
Period covered	January 1, 2023 to December 31, 2023		

Table 6

Percentage WTW GHG Emission (kg CO2e) by Transport Category		10984008.49 kg CO2e
% Medium/Heavy-Duty	3.689523965%	
% Light-Duty	0.000216531%	
% Long Haul Air	96.3102595%	

5.2 Emissions Inventory

The emissions inventory analysis revealed that **Ace Computers'** product transportation contributes significantly to its overall carbon footprint. The emissions are primarily associated with the transportation of finished products from manufacturing facilities to end-users. The inventory includes emissions from road and air modes. To address this, **Ace Computers** must focus on optimizing transportation routes, improving load factors, and adopting cleaner fuels.

5.3 Energy Efficiency

Energy efficiency emerged as a critical factor in reducing emissions. **Ace Computers** can explore opportunities to optimize transportation routes, improve load factors, and enhance fuel efficiency. Implementing better data capture methods, such as optimization of weight/volume data entry within our shipping software, can lead to higher accuracy emission calculations to assess and build better future practices. Additionally, Ace Computers is asking transportation partners how investing in fuel-efficient vehicles and alternative fuels (e.g., electric or hydrogen) can contribute to **Ace Computers'** sustainability goals.

5.4 Environmental Impact Assessment

The environmental impact assessment highlighted the importance of considering the entire product life cycle. Beyond transportation, upstream emissions (e.g., raw material extraction, manufacturing) and downstream emissions (product use and disposal) play a significant role. **Ace Computers** is already starting to collaborate with suppliers and customers to address emissions holistically. By incorporating life cycle thinking, **Ace Computers** can identify hotspots and prioritize emission reduction efforts across the value chain.

5.5 Emissions Reduction Opportunities

Several emissions reduction opportunities were identified:

1. **Mode Shift Strategies:** **Ace Computers** can explore shifting from high-emission modes (e.g., air freight) to more sustainable options (e.g., rail or sea). Mode shift can significantly reduce emissions and enhance overall efficiency.
2. **Fuel Efficiency Measures:** Investing in fuel-efficient vehicles, adopting alternative fuels, and optimizing vehicle maintenance can lead to substantial emission reductions. **Ace Computers** should evaluate fuel-efficient technologies and practices with realistic potential for implementation.
3. **Collaboration Opportunities:** Collaborating with logistics partners, carriers, and other stakeholders can enhance emission reduction efforts. Joint initiatives, such as shared transportation networks, can improve efficiency and reduce duplication of efforts.
4. **Data-Driven Decision-Making:** **Ace Computers** should collect granular data on transportation activities, analyze emissions trends, and set ambitious reduction targets. Data transparency and sharing are crucial for informed decision-making.



6. Case Studies

Transporting products efficiently and sustainably is a crucial aspect of modern supply chains. In this report, we delve into two case studies, each highlighting a distinct mode of transportation: **Road Transport**, and **Air Transport**. Additionally, we discuss our current knowledge of and future strategies for monitoring and/or affecting **Rail** and **Sea Transport**. Our focus is on **Ace Computers** sustainability as a leading technology solutions provider.

6.1.1 Case Study 1: Road Transport

Overview: Road transport involves the movement of goods via road networks using trucks, vans, and other motor vehicles. It is a versatile mode of transportation suitable for short to medium distances.

Ace Computers' Road Transport Strategy: **Ace Computers** relies heavily on road transport for its product distribution. The company maintains two well-maintained delivery trucks. Currently they are not equipped with advanced tracking systems. Ace is heavily dependent on large freight shipping partners. Here are some key points:

1. **Last-Mile Delivery:** **Ace Computers** uses road transport for last-mile delivery to customers' doorsteps. This ensures timely and personalized service.
 2. **Challenges and Solutions:**
 - o **Traffic Congestion:** Urban traffic congestion can delay deliveries. **Ace Computers** mitigates this by optimizing delivery routes and using real-time traffic data. We ask our freight partners to do the same.
 - o **Environmental Impact:** The company is evaluating a transition to electric and hybrid vehicles to reduce emissions.
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6.1.2 Case Study 2: Air Transport

Overview: Air transport is synonymous with speed and efficiency. It is ideal for urgent shipments and long-distance transportation.

Ace Computers' Air Transport Approach: **Ace Computers** leverages air transport for critical scenarios, such as delivering high-value components or meeting tight deadlines. Here's how they do it:

1. **Cargo Airlines:** **Ace Computers** partners with reputable freight partners who use cargo airlines for international shipments. These airlines offer specialized cargo planes with secure compartments for sensitive electronics.
2. **Cost Considerations:** While air transport is expensive, **Ace Computers** balances cost by prioritizing high-priority orders or orders that must be shipped overseas.

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3. **Carbon Footprint:** The company has already invested in carbon offset programs to mitigate the environmental impact of air transport.
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6.1.3 Other Transport Modes

Overview: Both maritime and rail transport are essential components of a well-functioning global supply chain. They offer economic benefits, environmental sustainability, and strategic advantages.

Ace Computers' Maritime and Rail Strategy: A review of **Ace Computers'** data does not currently reveal the utilization of maritime or rail transport for bulk shipments and global distribution. This is data that we are looking to find for next year's reporting. Going deeper into documentation that can be provided by our partner carriers is on our radar. Key points include:

1. **Container Shipping:** The company can investigate the use of standardized containers for efficient loading and unloading. Containers protect products during transit.
2. **Global Trade: Ace Computers'** products reach international markets through major ports. Ace Computers can determine if rail or maritime collaboration with shipping lines to optimize routes is a realistic sustainability option.
3. **Environmental Responsibility: Ace Computers** adheres to environmental regulations and supports clean shipping initiatives.



7. Recommendations

In our pursuit of sustainable and efficient product transportation, we present a set of recommendations tailored to **Ace Computers**, a technology solutions provider committed to environmental responsibility. These recommendations span three critical areas: **Policy**, **Fuel Efficiency Measures**, and **Operational Practices**.

1. Policy Recommendations

1. Adopt the GLEC Framework:

- The **Global Logistics Emissions Council (GLEC) Framework** provides a universal method for calculating and reporting logistics emissions across multi-modal supply chains.¹¹ By implementing this framework, **Ace Computers** can harmonize emissions reporting, making it easier to compare performance across different modes of transport.
- The **GLEC Framework** aligns with ISO 14083 standards and demonstrates **Ace Computers'** commitment to transparency and sustainability.

2. Collaborate with Industry Stakeholders:

- Engage with industry associations, regulatory bodies, and other stakeholders to shape policies that promote sustainable transportation practices.
- Advocate for incentives or tax breaks for companies investing in fuel-efficient technologies and alternative fuels.

3. Set Emission Reduction Targets:

- Establish clear targets for reducing emissions from transportation. These targets should align with global climate goals and **Ace Computers'** corporate sustainability objectives.
- Regularly monitor progress and adjust strategies as needed.

4. **Target:** Reduce CO₂e emissions from product transportation by 10% by 2030.

2. Fuel Efficiency Measures

1. Fleet Optimization:

- Evaluate the composition of Ace Computers' vehicle fleet and the major freight providers we use. Consider transitioning to electric or hybrid vehicles where feasible.
- Continue to verify that freight partners are using telematics and route optimization software to minimize fuel consumption and reduce idle time.

2. **Eco-Driving Training:**

- Train drivers on fuel-efficient driving techniques. Encourage practices such as smooth acceleration, maintaining consistent speeds, and avoiding unnecessary idling.
- Monitor driver behavior and provide feedback to promote eco-friendly driving habits.

3. **Alternative Fuels:**

- Explore biofuels, compressed natural gas (CNG), or hydrogen as alternatives to traditional fossil fuels.
- Collaborate with fuel suppliers to ensure availability and cost-effectiveness.

4. **Target:** Provide fuel-efficient driving technique training to our company drivers, assess company drivers once per year and provide feedback and additional training.

3. **Operational Recommendations**

1. **Cargo Consolidation:**

- Optimize cargo loads to maximize capacity utilization. Consolidate shipments whenever possible.
- Use standardized containers for efficient handling and reduced waste.

2. **Modal Shift:**

- Evaluate the most suitable mode of transport for each shipment. Consider rail or maritime transport for longer distances.
- Prioritize air transport only for urgent or time-sensitive deliveries.

3. **Maintenance and Upkeep:**

- Regularly service and maintain vehicles to ensure optimal fuel efficiency.
- Monitor tire pressure, engine performance, and aerodynamics.

4. **Supplier Collaboration:**

- Consider joint transportation initiatives with other companies to reduce empty backhaul trips.

5. **Targets:** (1) Audit company vehicle service and maintenance records bi-annually to ensure optimal fuel efficiency. (2) Evaluate use of rail and maritime routes in place of 5% of current road and air transportation.



8 Scope 3 Greenhouse Gas (GHG) Protocol Declaration - Ace Computers (2022)

Ace Computers is committed to environmental responsibility and sustainability. As part of our efforts to address climate impacts throughout our value chain, we assess and report our Scope 3 emissions.

Scope 3 Emissions

Scope 3 emissions include indirect emissions resulting from value chain activities. We evaluate for emissions from the following 15 categories:

1. Purchased goods and services
2. Capital goods
3. Fuel- and energy-related activities (not included in Scopes 1 and 2)
4. Upstream transportation and distribution
5. Waste generated in operations
6. Business travel
7. Employee commuting
8. Upstream leased assets
9. Downstream transportation and distribution
10. Processing of sold products
11. Use of sold products
12. End-of-life treatment of sold products
13. Downstream leased assets
14. Franchises
15. Investments

Total Product Transport Scope 3 Emissions

This report is a drill down report of **Product Transport** scope 3 emissions. This is our first year capturing Scope 3 emissions with a more robust accounting method. Our total Product Transport Scope 3 emissions for fiscal year 2023 are **13234.5 metric tons of CO2 equivalent (CO2e)**. This is up from our previous total Product Transport Scope 3 emissions from fiscal year 2022, which were **4604 metric tons of CO2 equivalent (CO2e)**. This large increase is accounted for in our ability to assess data on a more granular level this year.

Commitment

Ace Computers actively collaborates with suppliers, customers, and partners to reduce our environmental impact and promote sustainable practices.

For more detailed information, please refer to our Corporate Sustainability Report FY2022. The values calculated as part of this report, plus the additional 15 categories above will be available together in our Corporate Sustainability Report FY2023 report.

Note: Ace Computers' Corporate Sustainability Report for FY2023 is currently being compiled and will be available on Ace Computers' website between Q2 and Q3 of 2024.



9 Conclusion

As we navigate the ever-evolving landscape of logistics and sustainability, **Ace Computers** remains committed to innovation, quality, and environmental responsibility. By embracing GLEC principles, we contribute to a greener future while ensuring seamless product transportation for our valued clients.

This study provides a comprehensive understanding of **Ace Computers'** product transportation emissions, enabling informed decision-making and targeted emission reduction strategies.

The **GLEC Framework** empowers companies like **Ace Computers** to navigate the complex world of logistics emissions. By adopting this standardized approach, **Ace Computers** not only reduces its environmental impact but also sets an example for others in the industry. Sustainability and efficient product transportation go hand in hand, and GLEC provides the roadmap.

Ace Computers has an opportunity to lead by example in sustainable product transportation. By implementing the identified strategies, **Ace Computers** can reduce its environmental impact, enhance energy efficiency, and contribute to a net-zero logistics sector.

Ace Computers' transportation strategy is a blend of road and air modes. By carefully evaluating each case study, the company ensures timely deliveries, cost-effectiveness, and environmental consciousness. As **Ace Computers** continues to grow, it remains committed to sustainable transportation practices.

Ace Computers has a unique opportunity to lead by example in sustainable product transportation. By implementing these recommendations, the company can reduce its environmental impact, enhance operational efficiency, and contribute to a greener future.

For more information about our offerings, please visit our website: **Ace Computers**.¹²



REFERENCES

1. GLOBAL LOGISTICS EMISSIONS COUNCIL (GLEC) FRAMEWORK
2. IT SERVICES COMPANY SOLUTIONS L ACE COMPUTERS
3. GHG PROTOCOL
4. RESPONSIBLE MINERAL
5. ACE CSR FY2022
6. ISO ALIGNMENT
7. GLEC AND OTHER INITIATIVES
8. INDUSTRY STANDARDS AND BEST PRACTICES ALIGNMENT
9. GHG PROTOCOL CALCULATIONS TOOLS AND GUIDANCE
10. SIMPLIFIED GHG EMISSIONS CALCULATOR
11. MULTI-MODAL SUPPLY CHAIN CALCULATIONS AND REPORTING
12. IT SERVICES COMPANY SOLUTIONS L ACE COMPUTERS