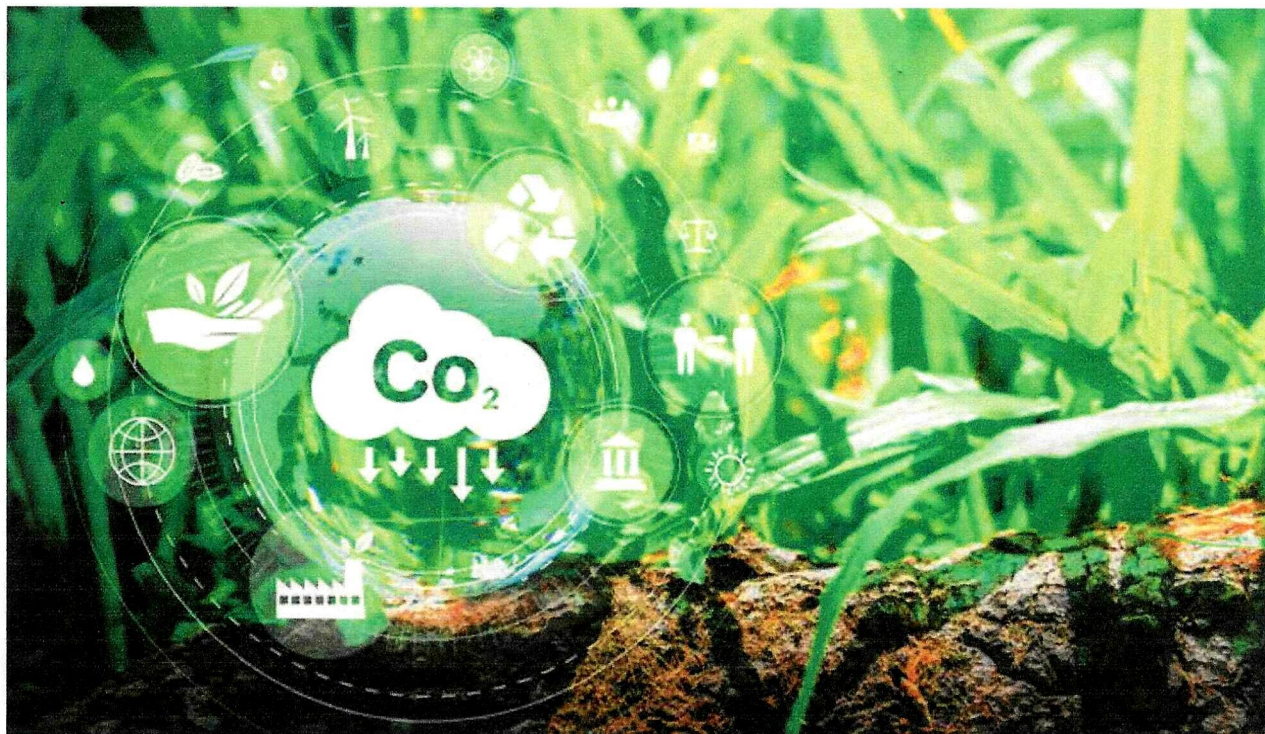




# Greenhouse Gas Emissions Report

Document No:  
PCPL/GHGR/003/HO



*Piyanshu*

## Sustainable from the Core

May, 2025

Date Of Issue	Prepared By Ujjwal Das	Checked By Swapan Dutta	Approved By Anshu Kejriwal
03.05.2025			

Piyanshu Chemicals Pvt. Ltd. 2024-2025 GHG Emissions Report





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## ABOUT THE REPORT

The purpose of this Report is to provide transparent communication to all stakeholders regarding our progress in environmental sustainability while highlighting our continuous efforts to reduce energy and GHG emissions related to our business.

### Reporting Boundary

Data provided in the FY2024-2025 GHG Report are specific to Piyanshu Chemicals Pvt. Ltd.'s all three manufacturing sites.

### Reporting Period

FY 2024-2025 GHG Report covers performance of the Company from 1st April 2024 to 31st March 2025.

### Management Responsibility Statement

Piyanshu's management acknowledges its role in ensuring the integrity, transparency, and accuracy of the information conveyed, the management affirms that the report thoroughly addresses all pivotal material concerns relevant to the organization and its stakeholders.

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## Introduction

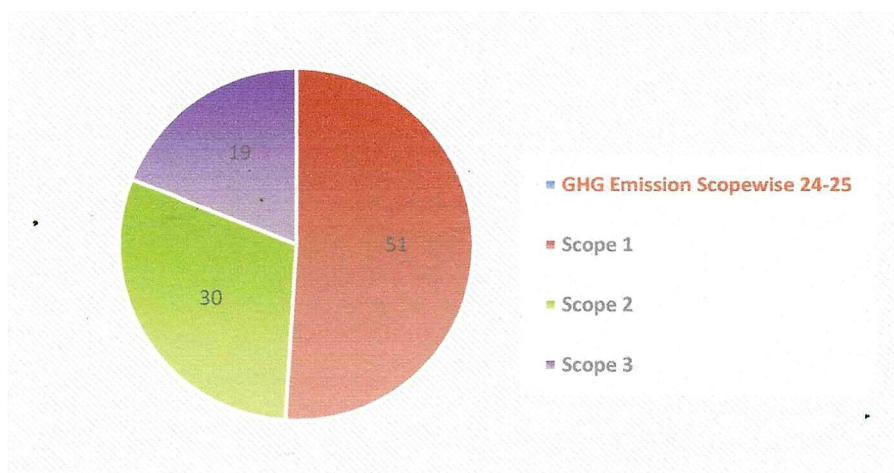
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### Objectives & Principles

The Greenhouse Gas (GHG) Emissions Report describes the emissions of Piyanshu Chemicals Pvt. Ltd. The company publishes this report annually in order to transparently disclose to its stakeholders its GHG emissions in accordance with the commitments made in the Company's environmental policy and strategy.

The information contained in this report discloses of GHGs and associated emissions during fiscal year 2024, April 1, 2024 to March 31, 2025.

This is the third consecutive year that Piyanshu Chemicals publishes a GHG report that includes the three scopes. This report also includes an overview of the direct actions performed based on internal targets and strategies to manage and reduce GHG emissions.



Total 2024-2025 GHG Emissions **15449.5 tCO<sub>2</sub>e**

Scope 1 and 2 emissions contribute 51% and 30% respectively. The value of **Scope 1** emissions is 7909.2 tCO<sub>2</sub>e and **Scope 2** emissions are major emissions with 4583.5 tCO<sub>2</sub>e.

**Scope 3** emissions make 19% of our total carbon footprint with 2956.81 tCO<sub>2</sub>e, mainly due to travel and the upstream & downstream transportation & distribution.

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## Organizational description

Piyanshu Chemicals Pvt Ltd. was started as a Proprietary concern in 1969, by Mr. Ram Krishna Kejriwal in Kolkata to manufacture driers and other additives for the paint industry. In 1986, another unit was set up in Kalyani in West Bengal to add to the range of products .

In 1992, the unit was converted from a Proprietorship Organization to a Private Limited Company. To enable the company to grow and have a diverse manufacturing base, a facility was setup in Hyderabad in 1993. Further expansion took place by setting up a unit in Punjab in 1999, and another unit in Indore in the year 2000, to enable it to meet the growing requirements for its products across the country.

Currently Piyanshu Chemicals Pvt.Ltd has three manufacturing sites

1. Piyanshu Chemicals Pvt. Ltd.  
Plot No.684,652 Pithampur Industrial Area Sector III,Pithampur,Dhar,  
Madhyapradesh-454774
2. Piyanshu Chemicals Pvt. Ltd.  
Plot No. 200 & 201, I.d.a., Phase-ii, Phashamlaram, Medak, Telangana-502307
3. Piyanshu Chemicals Pvt. Ltd.  
Plot No D23 Industrial Focal Point,Derabassi, Punjab-140201

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# Policies, strategies and goals

Piyanshu Chemicals Pvt. Ltd. strives to create as much value as possible for customers that they have tied their interests with those of the Company.

## Mission

At Piyanshu Chemicals, We are committed to maximize customer satisfaction by developing & delivering innovative & best solutions for our customers. Our passion and purpose is to create a more inclusive and greener India. We leverage superior technology to contribute to our Customers and Society, in a sustainable manner.

## Vision

Piyanshu Chemicals works to expand globally to be the most trusted manufacturer of resin, drier & other additives for the Paint & chemical industry. Our fundamental commitment is to become a trusted, eco-friendly company that helps protect the environment and save resources.

## Sustainability Indices

Eco Vadis (Gold Medal, 2023), Together for Sustainability (TfS) (Score: 96%, 2023).

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## Organizational boundaries

In order to define the boundaries of the organization, the operational control approach is selected, since it best represents the organization's activities with respect to the work centres performing operational control of the activity and it is the approach that allows greater potential for reducing GHG emissions.

Total three Piyanshu Chemicals Pvt. Ltd. locations are considered for this GHG emissions report.

Current report covers

1. Piyanshu Chemicals Pvt.Ltd Medak, Telengana
2. Piyanshu Chemicals Pvt. Ltd., Pithampur, Madhya Pradesh
3. Piyanshu Chemicals Pvt. Ltd. Derabassi, Punjab

## Reporting boundaries

PCPL has since fiscal year 2022 reported its direct emissions (Scope 1) from sources it owns or controls and indirect emissions (Scope 2) resulting from the generation of purchased electricity,

PCPL is applying bottoms up approach for reporting GHGs emission which calculates emissions at the individual source level (such as a facility) and then all the way up to the corporate level (HQ)

### Scope 3 categories upstream & downstream

1. Transportation & Distribution
2. Business Air Travel

### GHG Scopes:

- GHG direct emissions (Scope 1) – Direct emissions that occur from sources that are owned or controlled by the Company.
- GHG indirect emissions (Scope 2) – Indirect emissions from the generation of purchased electricity consumed by the Company.
- Other GHG indirect emissions (Scope 3) – Indirect emissions that are a consequence of the activities of the Company but occur from sources not owned or controlled by the Company.

The following Scope 3 emissions from both upstream and downstream sources were accounted for and included in this report: Scope 3 emissions categories such as "Business travel",

Together the three emissions scopes provide a comprehensive accounting framework for managing and reducing direct and indirect emissions.

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## Direct and indirect emissions sources reported

### GHG direct emissions sources (Scope 1)

#### Energy Direct Emission

Point Details	Activity /Category	
1.1	Combustion of Coal	Thermic Fluid Heater
1.2	Briquette	Thermic Fluid Heater
1.3	Diesel Combustion	DG
1.4	Combustion of diesel for automotive	Company owned Vehicles

### GHG indirect emissions sources (Scope 2)

#### Energy indirect

Point Details	Activity /Category	
2.1	Electricity Consumption	Power & Lighting

### Other GHG indirect emissions (Scope 3)

#### Other Indirect

Point Details	Activity /Category	
3.1	Transportation & Distribution	Diesel
3.2	Business Travel	Air Travel

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## Reporting period and general methodology

### Base year

The base year is PCPL fiscal year 2022, or the period between April 1, 2022 and March, 2023.

### Reporting period

This GHG emissions report reflects the situation of PCPL's fiscal year 2024, or the period between April 1, 2024 and 31, March, 2025.

### Methodology

Quantifying GHG emissions includes the data collection process and the application of documented emission factors. The quantification is based on two calculation-based methodologies, depending on the type of emission source: Emission sources in which there is a chemical transformation process (combustion, fixed or mobile) and indirect Emissions from electricity consumption

Emissions of CO<sub>2</sub> (t CO<sub>2</sub>e) = Activity data x Emission factor

### EMISSION FACTORS

\*\*CO<sub>2</sub> emission from Coal for generation of 1MWH power is Equal to 340Kg/0.340mt

\*\*\* 1 Litre diesel generates Equivalent to 2.7 Kg of CO<sub>2</sub>

\*\* To generate 1MWH of Power Thermal power plant emits 0.91mt of CO<sub>2</sub>

\*\* To produce 1KWH power from briquette it generates .01053 kg of CO<sub>2</sub>

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## Performance tracking & reductions project

Since fiscal year 2022, PCPL committed to report its companywide GHG emissions. The GHG emissions report of FY22 represents the baseline year for GHG emissions reporting. The next section will present trends and a comparative analysis between FY22 baseline and current fiscal year data.

### Emission Intensity:

Emissions per MT of Production: 0.406 MT

### INFORMATION ON EMISSIONS

EMISSIONS	TOTAL (mtCO <sub>2</sub> e) MEDAK	TOTAL (mtCO <sub>2</sub> e) PITHAMPUR	TOTAL (mtCO <sub>2</sub> e) DERABASSI	TOTAL (mtCO <sub>2</sub> e)
Scope 1	3759.35	4081	68.87	7909.2
Scope 2	2243.63	1974	365.88	4583.51
Scope 3	1756.85	807	392.96	2956.81

Emissions disaggregated by source types			
Scope 1: Direct Emissions from Owned/Controlled Operations	2024-2025	2023-2024	2022-2023
a. Direct Emissions from Stationary Combustion			
1. Coal	7727.56	6788.2MT	6917.9 MT
2. Bio coal	72.66	18.1 MT	8.9 MT
3. Diesel	108.96	84.9 MT	96.68 MT
Scope 2: Indirect Emissions from the Use of Purchased Electricity, Steam, Heating and Cooling			
a. Indirect Emissions from Purchased/Acquired Electricity	4583.36	3987 MT	3075 MT
Scope 3: Indirect Emission upstream & downstream Transportation & distribution, business travel			
1. Upstream Transportation & distribution	1597.6	907.8 MT	669 MT
2. Downstream Transportation & distribution	1341.43	981 MT	1070 MT
3. Business Air Travel	17.67	11.7 MT	8 MT

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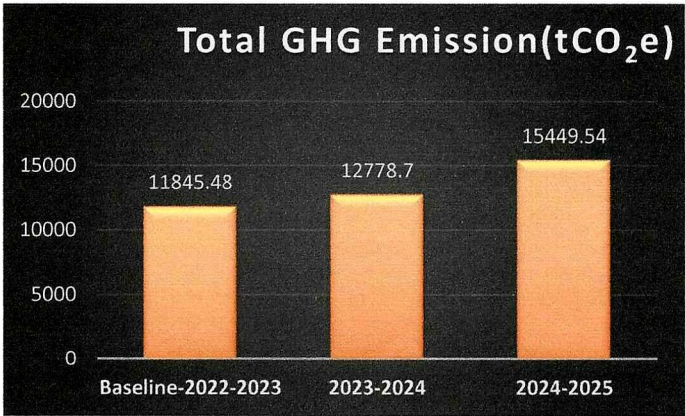
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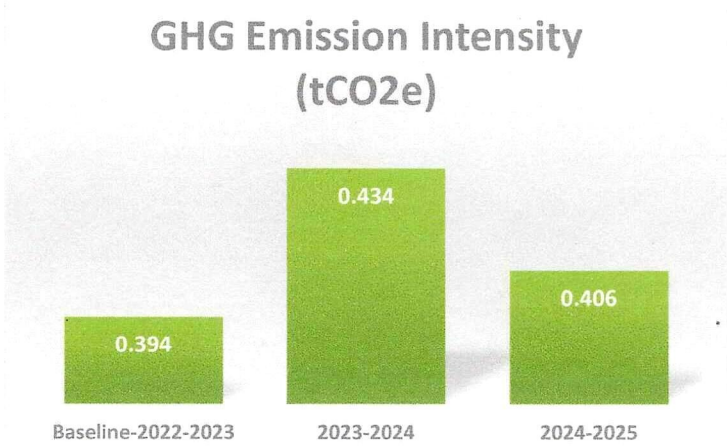




COMPARISON WITH BASE LINE: Total Emission & Intensity



In the 2022-2023 & 2023-2024 only two operational sites considered where as in the latest report 2024-2025 all three operational sites taken into consideration for GHG emission Calculation. Hence we can see almost 30% increase in the total emission compare to baseline emission.



In the present report we got 3% increase in the GHG emission intensity from the baseline. This year is the first time we have cover all the operational sites.

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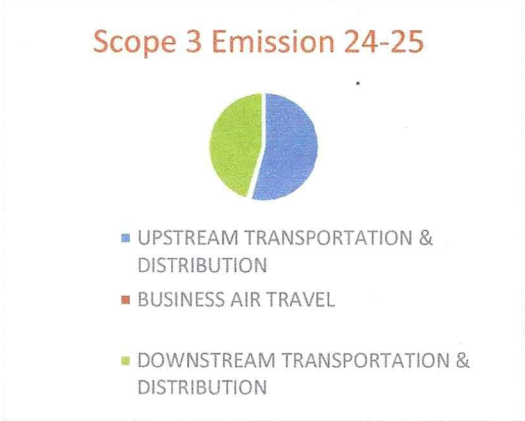
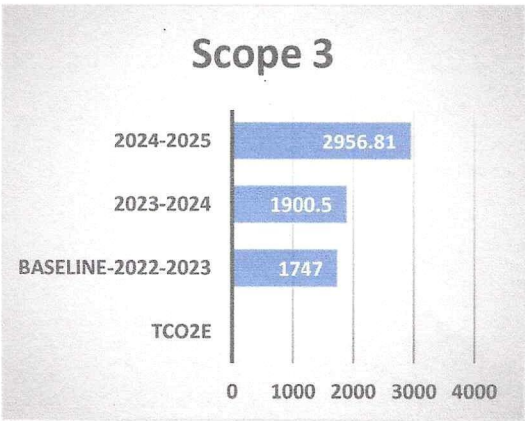
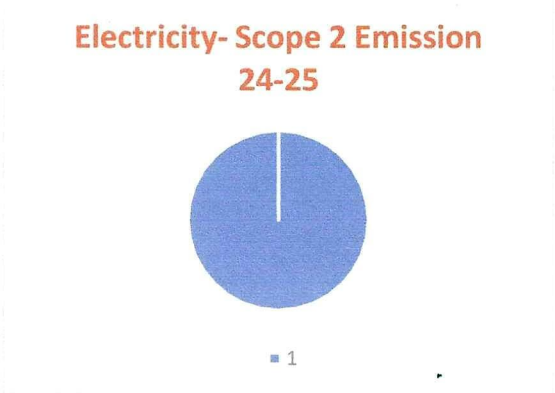
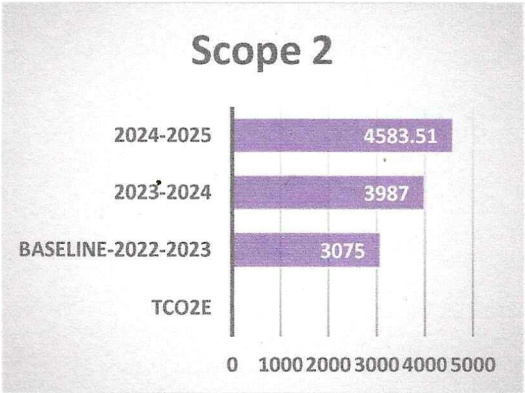
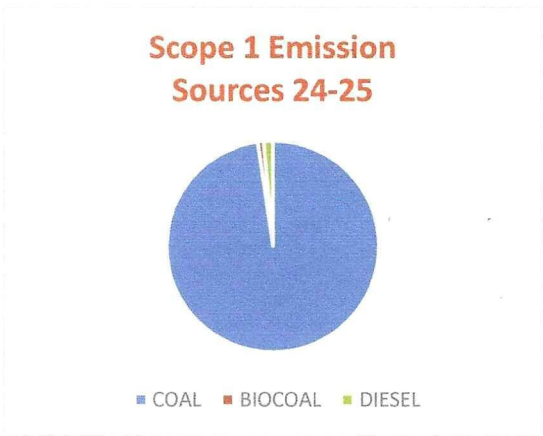
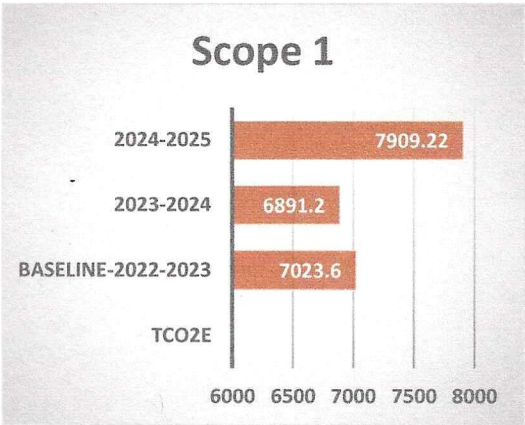




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Scopewise Comparison from baseline:



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03.05.2025	Ujjwal Das	Swapan Dutta	Anshu Kejriwal





Reduction Projects

Piyanshu Chemicals Pvt. Ltd. is committed to achieving net-zero carbon emissions by the end of 2050. Our approach prioritizes real, measurable emission reductions across all scopes, with a strong focus on energy transition, operational efficiency, and sustainable procurement.

Key Focus Areas:

- Scope 1 & Scope 2 Emissions
  - These emissions primarily stem from on-site fuel consumption and purchased electricity.
  - Reduction Target: 27% reduction by 2030
  - Key Initiatives:
    - Replacing coal with biomass briquettes for industrial processes
    - Implementing solar energy solutions across operational locations
- Scope 3 Emissions
  - Indirect emissions from business travel, and the upstream supply chain, particularly from purchased goods and services.
  - Reduction Target: 5% reduction by 2030
  - Key Initiative:
    - Transition to electric vehicles (EVs) for company operations

We recognize that Scope 3 emissions present complex challenges due to their indirect nature. Therefore, we are working closely with suppliers and logistics partners to reduce emissions throughout our value chain.

This phased approach will enable us to build a strong foundation toward long-term sustainability and climate resilience, ensuring that our operations contribute positively to global climate goals.

A. Completed Carbon Reduction Initiatives

1. **Energy Efficiency**  
Since 2022, we have installed 100% LED lighting in our offices to minimize energy consumption.
2. **Sustainable Commuting**  
We promote eco-friendly commuting by incorporating electric vehicles for employee travel to both the office and client sites.
3. **Water Conservation**  
37% of the water we consume is recycled, supporting our commitment to responsible resource management.

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## B. Future Carbon Reduction Initiatives

### 1. Renewable Electricity Sourcing

We are transitioning to 100% renewable electricity—both through generation and purchase—to significantly reduce our Scope 2 emissions.

### 2. Travel and Remote Work

We continue to embrace flexible work models that minimize unnecessary travel, helping to reduce our Scope 3 emissions.

### 3. Waste Reduction

We are actively working to reduce waste across our operations through improved practices and more efficient use of resources.

### 4. Reducing VOCs

We are committed to lowering Volatile Organic Compound (VOC) emissions by adopting cleaner processes and materials.

### 5. Water Reuse

100% of our water-intensive sites reuse water, reinforcing our dedication to sustainable water management.

### 6. Bio-Based Raw Materials

As part of our future innovation strategy, we are shifting away from fossil-fuel-based raw materials in favor of bio-based alternatives.

## Conclusion

Piyanshu Chemicals Pvt. Ltd. is committed to sustainability and is taking several steps to reduce its carbon footprint. PCPL efforts are helping to make a difference in the fight against climate change.

Overall, the GHG emissions report supports in:

1. Obtaining an improved overview of PCPL's direct and indirect GHG emissions and supporting the decision-making process towards the reduction of GHG impacts.
2. Identify cost effective reduction opportunities and early voluntary actions.
3. Setting ambitious GHG reduction targets as well as effectively measuring and reporting progress towards these targets.
4. Publicly disclose this information in a transparent manner and voluntarily participate in GHG reduction programs.

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