

**2024**

**GREENHOUSE GAS (GHG)**   
**EMISSIONS REPORT**

**For Reporting Period: 1 Jan 2022 - 31 Dec 2022**

**PREPARED BY:**  **PRESENTED TO:**

Evercomm Taiwan Pte Ltd

|  |  |
| --- | --- |
|  **+65 68718807** |  **info@evercomm.com.sg** |

**Notes**   
This Greenhouse Gas Emissions Report is aligned with ISO 14064-1 Clause 9.3 reporting guideline and is automatically generated for internal use by the reporting company only.

Table of Contents

1. About the Report

2. Organization Profile

3. Company Location Data

4. Base-year GHG inventory

5. Changes in Base-year GHG inventory calculation

6. Organizational Boundaries

7. GHG reporting methodology using NXMap

8. Calculation approach

9. Calculation tools used

10. Materiality Assessment Table

11. Reporting Boundaries

12. Direct Emissions by gas type (summary)

13. Exclusions

14. Emission Factors Summary

15. Uncertainty Assessment

16. Greenhouse Gas Mitigation Activities

1. About This Greenhouse Gas(GHG) Report

Evercomm Taiwan Pte Ltd’s 2022 Greenhouse Gas (“GHG”) Emissions Report (“GHG Emissions Report” or “Report”) is being provided for Evercomm Taiwan Pte Ltd (together, with its subsidiaries, unless the context otherwise indicates, “Evercomm Taiwan Pte Ltd” or the“Company” or the “firm”). All data in this report is provided for the year-ended 2022 unless otherwise noted. This Report is presented in accordance with the Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) (“GHG Protocol”). This report is prepared in accordance to the ISO 14064 reporting guideline (Clause 9.3).

**About The GHG Protocol**

The GHG Protocol was established through a partnership of non-governmental organizations, governments, and other stakeholders that was convened by the World Resources Institute (“WRI”) and the World Business Council for Sustainable Development (“WBCSD”). The GHG Protocol provides a consistent standard and guidance for the measurement and reporting of GHG emissions by companies. Evercomm Taiwan Pte Ltd has adopted this standard for measuring and reporting on the GHG emissions that arise from Evercomm Taiwan Pte Ltd’s business operations.

**Level Of Assurance**

Type of assurances:

The data disclosed in this Greenhouse Gas Emission Report has been verified by an independent external 3rd party, Evercomm Taiwan Pte Ltd, with Reasonable Assurance.

3 party reasonable assurance rd

b. An external independent party will be required to verify the emissions data disclosed on the NXMap® Platform with the highest achievable level of confidence, involving more tests of control, focused on the GHG inventory and underlying data, with testing procedures more extensive in scope and the evaluation of data management processes.

2. Organization Profile

a) Description of the reporting organization (Parent Company) [user input text]

b) Person or entity responsible for the report [user input,from on-boarding page]

c) Reporting period covered [user input, from on-boarding page]

d) List of subsidiaries under Parent Company [user input,from on-boarding page]

e) List of subsidiaries reporting under Parent Company.[user input,from on-boarding page]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S/N** | **Person in charge** | **Entity Type** | **Entity Name** | **Reporting Name** | **Status** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Table 1: Summary of person-in-charge, entity and status of GHG emissions report

3. Company Location Data

|  |  |
| --- | --- |
| **Base-year GHG inventory** |  |

|  |
| --- |
| **Basic Information** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Registration Number** |  | | | |
| **Company Name** | Evercomm Taiwan Pte Ltd | | | |
| **Tax ID Number** |  | | **Factory Registration Number** |  |
| **Address** |  | | | |
| **Industry classification** | **Industry code** |  | **Industry name** |  |
| **Contact information** | **Name** |  | **Office phone number** |  |
| **Mobile phone number** |  | **Email Address** |  |

|  |  |
| --- | --- |
| **GHG Inventory and Verification Information** | |
| **The reason to do GHG report** |  |
| **GHG Inventory based on specifications** |  |
| **Has it been verified by a third party?** |  |
| **Inspection agency name** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Threshold Setting** | | | |
| **Significance threshold** |  | **Description** |  |
| **Materiality threshold** |  | **Description** |  |
| **Exclusion threshold** |  | **Description** |  |
| **Remark** |  | | |

4. Base-year GHG inventory

Evercomm Taiwan Pte Ltd’s baseline year reporting period for which reliable and verifiable data are available is (5-Apr-2024 to 5-Apr-2024). The GHG emissions since the base-year are summarized in Table 2 below, on a year-on-year basis.

**Evercomm Taiwan Pte Ltd's Absolute Greenhouse Gas Emission Profile**

1800000.00

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| sion (kgCO₂-e) | 1600000.00 | **701208.97** | | | | |
| 1400000.00 |
| 1200000.00 |
| Gas Emis |  | **98678** | | | | |
| 1000000.00 |
| se | 800000.00 |
| bsolute Greenhou |  | **853739.91** | | | | |
| 600000.00 |
| 400000.00 |
| 200000.00 |
| A |  | |  |  |  | | --- | --- | --- | |  | | | | | | | |
| 0.00 |
|  |  |
| 2022 | | 2023 | | 2024 |
| Scope 1 |  | | Scope 3 | |
|  |  | Scope 2 | |
|  |  |  | |

Table 2: Evercomm Taiwan Pte Ltd's GHG emission profile since base-year

5. Changes in Base-year GHG Inventory Calculation   
There were **no significant changes** in Evercomm Taiwan Pte Ltd’s base-year GHG inventory as per the GHG Protocol such as:

1. Structural changes in Evercomm Taiwan Pte Ltd.

2. Changes in calculation methodology or improvements in the accuracy of emission factors or activity data.

3. Discovery of errors in data or emission factors.

6. Organizational Boundaries   
Evercomm Taiwan Pte Ltd’s organizational boundaries are shown as per Figure 1 below. For disclosure purpose of reporting year (1-Jan-

2022 to 31-Dec-2022), the Approach - operational is adopted to calculate the GHG emissions.



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Evercomm Taiwan Pte Ltd** | |  |  |
|  |  |  |
| |  | | --- | | **台北** | | |  | | --- | | **台中** | |
|  | Figure 1: Evercomm Taiwan Pte Ltd's organization structure for GHG emission reporting | |  |  |

7. GHG Reporting Metholody Using NXMap



8. Calculation Approach   
Types of calculation approaches:

1. Calculation of GHG emissions is through the application of documented emission factors (common)

2. Direct measurement of GHG emissions by monitoring concentration and flow rate (uncommon)

3. Calculation based on a mass balance or stoichiometric basis specific to a facility or process (uncommon)

9. Calculation Tools Used   
Types of calculation tools in NXMap:

1. GHG Protocol: Cross-sector Tool

2. GHG Protocol: Sector-specific Tools

3. Combination of (1) and (2).

10. Materiality Assessment Table   
Table 3 below summarizes the relevant categories which are recommended to be disclosed based on NXMap®’s Materiality Assessment

Scoring system.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Emission Type** | **Scope|Category** | **Description** | **Compliance Requirement** | **Data Credibility** | **Risk** | **Feasibility of implementation of reduction**  **measures** | **Occurrence frequency** | **Emission volume** | **Total Score** | **Disclosure Requirement** |
| **Direct** | **1 | 1** | 1.1 Stationary Combustion | YES | - | - | - | - | - | 10 | YES |
| 1.2 Mobile Combustion | YES | - | - | - | - | - | 10 | YES |
| 1.3 Direct GHG Emissions & Removals from Industrial Processes | YES | - | - | - | - | - | 10 | YES |
| 1.4 Fugitive Emissions | YES | - | - | - | - | - | 10 | YES |
| 1.5 Land Use, Land Use Change and Forestry (LULUCF) | NO | - | - | - | - | - | - | NO |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Emission Type** | **Scope|Category** | **Description** | **Compliance Requirement** | **Data Credibility** | **Risk** | **Feasibility of implementation of reduction**  **measures** | **Occurrence frequency** | **Emission volume** | **Total Score** | **Disclosure Requirement** |
| **Indirect** | **2 | 2** | 2.1 Imported Electricity | YES | - | - | - | - | - | 10 | YES |
| 2.2 Imported Energy | YES | - | - | - | - | - | 10 | YES |
| **3 | 3** | 3.1 Upstream Transport and Distribution for Goods | NO | 5 | 5 | 5 | 5 | 5 | 25 | NO |
| 3.2 Downstream Transport and Distribution for Goods | NO | 1 | 2 | 2 | 0 | - | 5 | NO |
| 3.3 Employee Commuting | NO | 5 | 4 | 4 | 5 | - | 18 | NO |
| 3.4 Client and Visitor Transport | NO | 3 | 4 | 4 | 3 | 3 | 17 | NO |
| 3.5 Business Travel | NO | 3 | 4 | 3 | 5 | 3 | 18 | NO |
| **3 | 4** | 4.1 Goods Purchased by an Organization | NO | 5 | 5 | 4 | 1 | 1 | 16 | NO |
| 4.2 Capital Goods that are Purchased and Amortized by an Organization | NO | 1 | 2 | 2 | 5 | 5 | 15 | NO |
| 4.3 Disposal Services (of solid or liquid waste) Used by an Organization | NO | 5 | 4 | 4 | 3 | 3 | 19 | NO |
| 4.4 Use of Assets (through leased equipment) by an Organization | NO | 3 | 4 | 4 | 3 | 3 | 17 | NO |
| 4.5 Use of Services not Described in the above sub-categories by an Organization | NO | 3 | 4 | 3 | 3 | 3 | 16 | NO |
| **3 | 5** | 5.1 Use Stage of the Product | NO | 1 | 1 | 1 | 3 | 3 | 9 | NO |
| 5.2 Downstream Leased Assets | NO | 3 | 4 | 4 | 3 | 5 | 19 | NO |
| 5.3 End of Life Stage of the Product | NO | 1 | 3 | 4 | 3 | 1 | 12 | NO |
| 5.4 Investments | NO | 1 | 4 | 4 | 3 | 5 | 17 | NO |
| **3 | 6** | 6.1 GHG Emissions or Removals from Other Sources | NO | 1 | 4 | 3 | 3 | 3 | 14 | NO |

Table 3: Materiality Assessment Summary

**Materiality Assessment Explanation**

|  |  |  |
| --- | --- | --- |
| **Evaluation factor** | **Scoring items** | **Score** |
| **Data Credibility** | With supporting evidence from third party | 5 |
| Internal finance or procurement system reports | 3 |
| Relevant operation records that have been signed internally | 1 |
| No records | 0 |

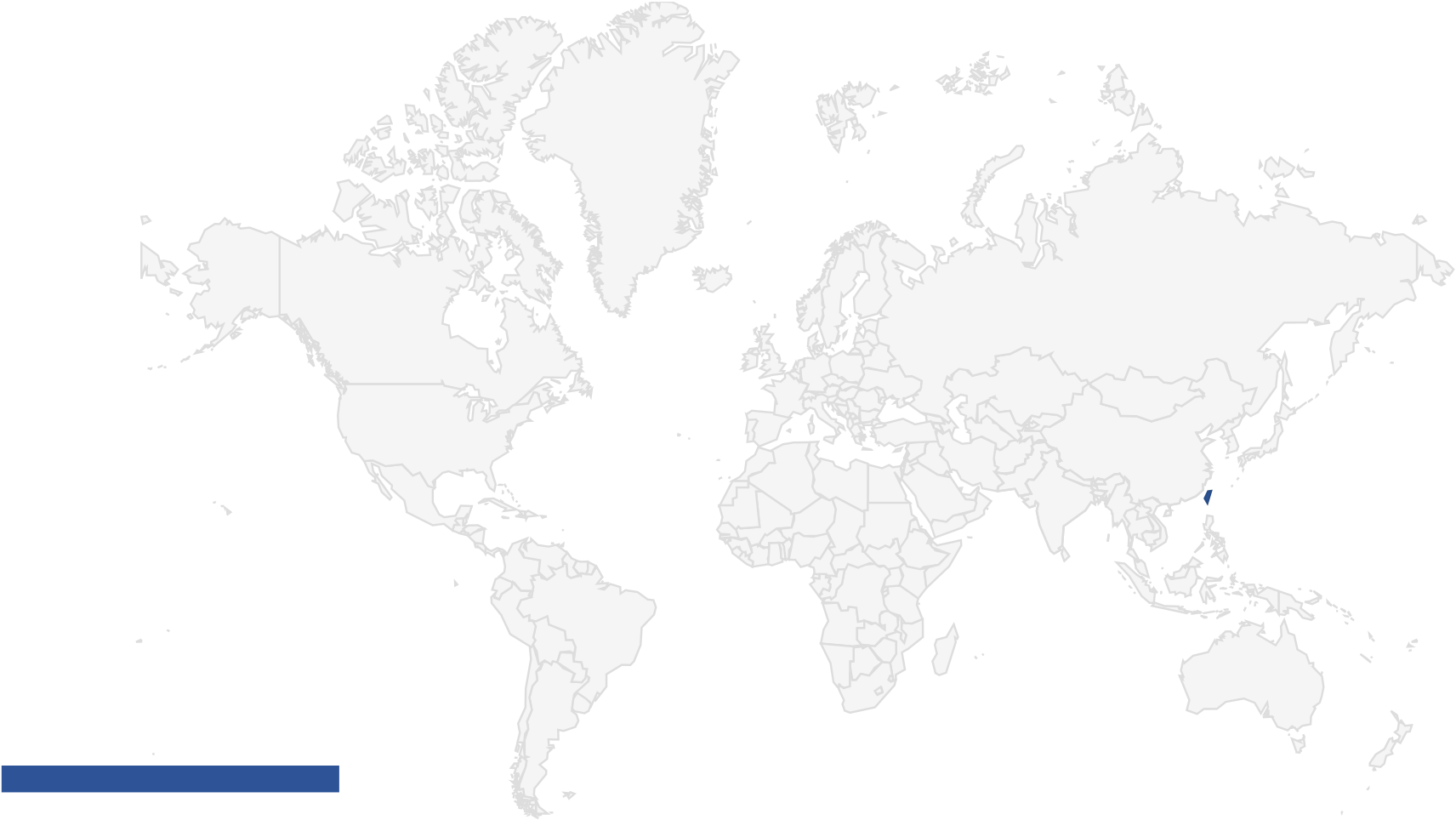
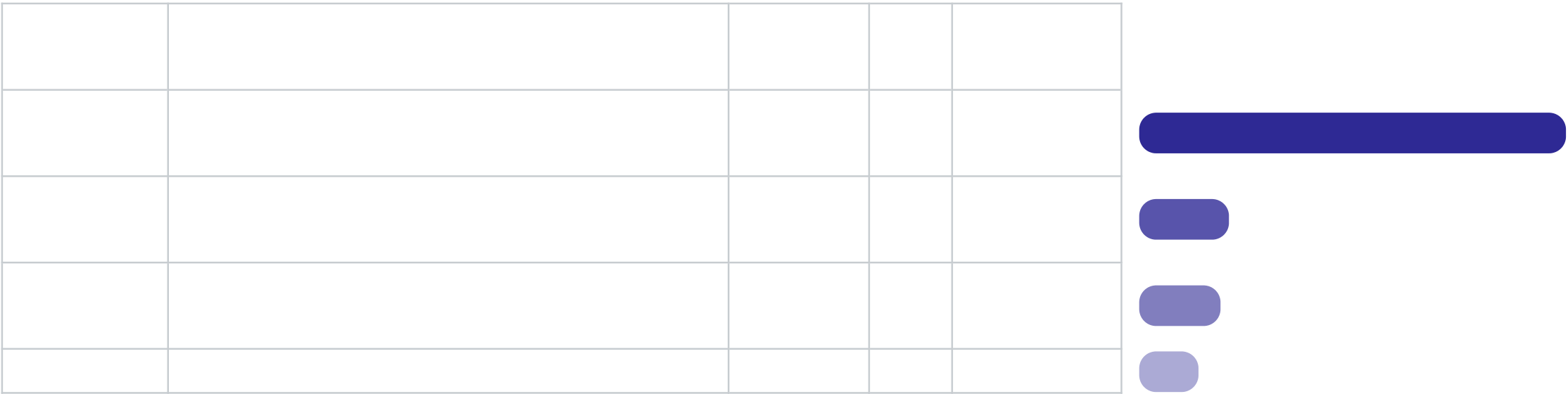
|  |  |  |
| --- | --- | --- |
| **Evaluation factor** | **Scoring items** | **Score** |
| **Emission factor sources** | In-house measurement coefficient | 5 |
| Coefficient provided by the equipment manufacturer | 4 |
| Regional emission factor | 3 |
| National emission factor | 2 |
| International emission factor | 1 |
| No emission factor | 0 |
| **Emission reduction technology implementation feasibility** | Emission reduction can be observed within 1 year | 5 |
| Emission reduction can be observed between 1 to 2 years | 4 |
| Emission reduction can be observed between 3 to 5 years | 3 |
| Emission reduction can be observed after 6 years from implementation | 2 |
| Unable to observe emission reduction | 1 |
| **Occurrence frequency** | At least once a month | 5 |
| At least once a quarter | 3 |
| At least once a year | 1 |
| Not Consider | 0 |
| **Emission volume** | Accounting for more than 3% of total emissions | 5 |
| Accounting between 0.5% to 3% of total emissions | 3 |
| Accounting for less than 0.5% of total emissions | 1 |
| Not Consider | 0 |

11. Reporting Boundaries   
**(a) Disclosure of Emission Boundaries (5-Apr-2024 to 5-Apr-2024)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Scope |**  **Category**  **Description** | |  |  |  | **Uncertainty (%)** |  |
|  | **1 | 1** | 1.1. Direct GHG emissions & removals from stationary combustion | 0.00 | 0 | 2024 | 0 | No |
| 1.2. Direct GHG emissions & removals from mobile combuston | 4,339.03 | 12.07 | - | 0 | No |
| 1.3. Direct GHG emissions & removals from industrial processes | 0.00 | 0 | 2024 | 0 | No |
| 1.4. Direct fugitive emissions from the release of GHGs in anthropogenic systems | 22,550.0 0 | 62.75 | - | 0 | No |
| 1.5. Direct GHG emissions and removals from land use, land use change and forestry (LULUCF) | 0.00 | 0 | - | 0 | No |
| **Total for Scope 1 | Category 1:** | | 26,889.0 3 | 74.82 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Scope |**  **Category**  **Description** | |  |  |  | **Uncertainty (%)** |  |
|  | **2 | 2** | 2.1. Indirect GHG emissions from imported electricity | 3,154.00 | 8.78 | - | 0 | No |
| 2.2. Indirect GHG emissions from imported energy | 0.00 | 0 | 2024 | 0 | No |
| **Total for Scope 2 | Category 2:** | | 3,154.00 | 8.78 |  |  |  |
| **3 | 3** | 3.1. Indirect GHG emissions from upstream transport and distribution for goods | 55.90 | 0.16 | - | 0 | No |
| 3.2. Indirect GHG emissions from downstream transport and distribution for goods | 0.00 | 0 | 2024 | 0 | No |
| 3.3. Indirect GHG emissions from employee commuting | 469.80 | 1.31 | - | 0 | No |
| 3.4. Indirect GHG emissions from client and visitor transport | 4,724.17 | 13.15 | - | 0 | No |
| 3.5. Indirect GHG emissions from business travel | 645.22 | 1.8 | - | 0 | No |
| **Total for Scope 3 | Category 3:** | | 5,895.09 | 16.42 |  |  |  |
| **3 | 4** | 4.1. Indirect GHG emissions from goods purchased by an organization | 0.00 | 0 | 2024 | 0 | No |
| 4.2. Indirect GHG emissions from capital goods that are purchased and amortized by an organization | 0.00 | 0 | - | 0 | No |
| 4.3. Indirect GHG emissions from disposal services (of solid or liquid waste) used by an organization | 0.00 | 0 | - | 0 | No |
| 4.4. Indirect GHG emissions from use of assets (through leased equipment) by an organization | 0.00 | 0 | - | 0 | No |
| 4.5. Indirect GHG emissions from use of services not described in the above sub-categories by an organization | 0.00 | 0 | - | 0 | No |
| **Total for Scope 3 | Category 4:** | | 0.00 | 0 |  |  |  |
| **3 | 5** | 5.1. Indirect GHG emissions or removals from use stage of the product | 0.00 | 0 | - | 0 | No |
| 5.2. Indirect GHG emissions from downstream leased assets | 0.00 | 0 | - | 0 | No |
| 5.3. Indirect GHG emissions from end of life stage of the product | 0.00 | 0 | - | 0 | No |
| 5.4. Indirect GHG emissions from investments | 0.00 | 0 | - | 0 | No |
| **Total for Scope 3 | Category 5:** | | 0.00 | 0 |  |  |  |
| **3 | 6** | 6.1. Indirect GHG emissions or removals from other sources | 0.00 | 0 | 2024 | 0 | No |
| **Total** | | | 35,938.1 2 | 100 |  | | |

Table 4: Summary of GHG emission activities of Evercomm Taiwan Pte Ltd for (5-Apr-2024 to 5-Apr-2024)

**b) Summary of corporate emissions by entity**

Total Absolute Corporate Greenhouse Gas Emissions by Entity

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Scope 1  Evercomm Taiwan Pte Ltd | Scope 2 | | Scope 3 | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | **26959.05** | **3154** | **8033.33** | | | | | | | | | | | | | | | | | | |
| 0 | 5000 | | 10000 | 15000 | 20000 | 25000 | 30000 | 35000 | 40000 |

Figure 2: Summary of GHG emission by entity for Evercomm Taiwan Pte Ltd

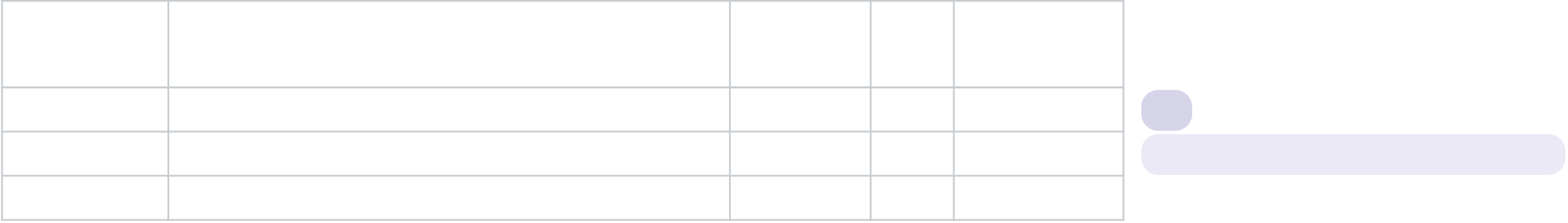
**c) Summary of corporate emissions by geographical location**

|  |  |
| --- | --- |
| 38,146.38 | 38,146.38 |

Figure 3: Heatmap of Evercomm Taiwan Pte Ltd GHG emission by geographical location

**(e) Summary of reporting entity’s emissions hotspot breakdown during reporting period (01-Jan-2022 to 31-Dec-2022)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Emission** | **Category Description** | **GHG** | **Units** | **Contribution** | 13.15% | 62.75% |
| **Category** | **Emission** | **(%)** |
| 1.4. | Direct fugitive emissions from the release of GHGs | 22,550 | kgCO₂e | 62.75 |
| in anthropogenic systems |
| 3.4. | Indirect GHG emissions from client and visitor | 4,724.17 | kgCO₂e | 13.15 |
| transport |
| 1.2. | Direct GHG emissions & removals from mobile | 4,339.03 | kgCO₂e | 12.07 | 12.07% |
| combustion |
| 2.1. | Indirect GHG emissions from imported electricity | 3,154 | kgCO₂e | 8.78 | 8.78% |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Emission** | **Category Description** | **GHG** | | **Contribution** | 1.8% | 1.47% |
| **Category** | **Emission** | **Units** | **(%)** |
| 3.5. | Indirect GHG emissions from business travel | 645.22 | kgCO₂e | 1.8 |
| Others | 525.70 | kgCO₂e | 1.47 |
| **Total** | **35,938.12 kgCO₂e** | | **100** |

Table 5: Evercomm Taiwan Pte Ltd's top 5 emissions hotspot categories

12. Direct Emissions by gas type (summary)

**Direct Emission (1-Jan-2022 to 31-Dec-2022)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Entity/Subsidiary/Facility** | **Carbon Dioxide (CO₂)** | **Methane (CH₄)** | **Nitrous Oxide (N₂O)** | **HFCs** | **PFCs** | **SF6** | **NF3** | **Total**  **tCO₂e** |
| Evercomm Taiwan Pte Ltd | 26,956.06 | 8.02 | 10.43 | 0 | 0 | 0 | 0 | 26.96 |
| Total | 26,956.06 | 8.02 | 10.43 | - | - | - | - | 26.96 |

**Emission Source Identification**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Emission Type** | **Biomass?** | **Categories** | **Categories1 emission**  **type** | **Types of greenhouse gases that may be produced** | | | | | | | **CO2**  **emission**  **equivalent of**  **biomass**  **fuel** |
| **(1-6)** | **(E,P,T,F)** | **CO2** | **CH4** | **N2O** | **HFCs** | **PFCs** | **SF6** | **NF3** |
| 1 | Purchased  Electricity(Location Based) | Purchased  Electricity(Location Based) | - | 2 | Purchased Electricity | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3784.00 |
| 2 | Diesel Light-duty Trucks | Diesel Fuel | - | 1 | Mobile  Combustion | 10.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8168.00 |
| 3 | Chillers | Other Biomass Gases | - | 1 | Stationary  Combustion | 52.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5779.77 |
| 4 | Chillers | Natural Gas | - | 1 | Stationary  Combustion | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 60.48 |
| 5 | Boiler | Grass/straw | - | 1 | Stationary  Combustion | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.05 |
| 6 | Bus | Local Bus | - | 3 | Client and Visitor  Transport | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 716.98 |
| 7 | Car | Average Car - Diesel | - | 3 | Client and Visitor  Transport | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 146.30 |
| 8 | Rail | International rail | - | 3 | Client and Visitor  Transport | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 115.47 |
| 9 | Ferry | Ferry - Average (all passenger) | - | 3 | Client and Visitor  Transport | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 378.46 |
| 10 | Car | Private car (gasoline) (2014) | - | 3 | Upstream T&D | 0.12 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 55.89 |
| 11 | Chillers | CFC-11/R11 =  trichlorofluoromethane | - | 1 | Refrigerants and  Fugitives | 4750.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19950.00 |
| 12 | Industrial  Refrigeration  including Food Processing and Cold Storage | HFC-134a (R-134a) | - | 1 | Refrigerants and  Fugitives | 1300.00 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 2600.00 |
| 13 | Car | Taiwan Passenger Vehicle | - | 3 | Business  Travel | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 460.00 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Emission Type** | **Biomass?** | **Categories** | **Categories1 emission**  **type** | **Types of greenhouse gases that may be produced** | | | | | | | **CO2**  **emission**  **equivalent of**  **biomass**  **fuel** |
| **(1-6)** | **(E,P,T,F)** | **CO2** | **CH4** | **N2O** | **HFCs** | **PFCs** | **SF6** | **NF3** |
| 14 | Tour bus | Tour bus(Diesel)(2014) | - | 3 | Business  Travel | 0.04 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 185.22 |
| 15 | Rail | Taiwan High Speed ​Rail  (2021) | - | 3 | Business  Travel | 0.03 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 25.60 |
| 16 | Rail | Taiwan Railway Diesel Train(2015) | - | 3 | Business  Travel | 0.07 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 49.00 |
| 17 | Rail | Taiwan Rail | - | 3 | Employee  Commuting | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 469.80 |
| 18 | Car | Average Car - Hybrid | - | 3 | Employee  Commuting | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 567.28 |

12. Exclusions [automated template, edit by user-input text]

|  |  |  |
| --- | --- | --- |
| **Scope** | **Sub-category** | **Reason for exclusion** |
| 1 | 1.1 Stationary Combustion |  |
| 1 | 1.2 Mobile Combustion |  |
| 1 | 1.3 Direct GHG Emissions &  Removals from Industrial Processes |  |
| 1 | 1.4 Fugitive Emissions |  |
| 2 | 2.1 Imported Electricity |  |
| 2 | 2.2 Imported Energy |  |
| 3 | 3.1 Upstream Transport and Distribution for Goods |  |
| 3 | 3.3 Employee Commuting |  |
| 3 | 3.4 Client and Visitor Transport |  |
| 3 | 3.5 Business Travel |  |
| 3 | 4.1 Goods Purchased by an Organization |  |
| 3 | 4.2 Capital Goods that are Purchased and Amortized by an Organization |  |
| 3 | 4.3 Disposal Services (of solid or liquid waste) Used by an  Organization |  |
| 3 | 4.4 Use of Assets (through leased equipment) by an Organization |  |
| 3 | 4.5 Use of Services not Described in the above sub-categories by an  Organization |  |
| 3 | 5.2 Downstream Leased Assets |  |
| 3 | 5.3 End of Life Stage of the Product |  |

|  |  |  |
| --- | --- | --- |
| 3 | 5.4 Investments |  |
| 3 | 6.1 GHG Emissions or Removals from Other Sources |  |

Table 6: Summary of excluded categories for current reporting period

14. Emission Factors Summary

**Emissions factors and units in the NxMap**

|  |  |  |
| --- | --- | --- |
| **Source** | **URL Name** | **Website** |
| GHG | GHG Protocol | <https://ghgprotocol.org/sites/default/files/GHG%20Emissions%20Calculation%20Tool_0.xlsx> |
| DEFRA | GHG  Reporting:conversion factors 2022 | <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2022> |
| EPA | GHG Emission Factors Hub | [https://www.epa.gov/climateleadership/ghg-emission-factors-hu](https://www.epa.gov/climateleadership/ghg-emission-factors-hub)b |
| IPCC | IPCC Emission Factor Database | [https://www.ipcc-nggip.iges.or.jp/EFDB/find\_ef.php?ipcc\_code=3&ipcc\_level](https://www.ipcc-nggip.iges.or.jp/EFDB/find_ef.php?ipcc_code=3&ipcc_level=0)=0 |
| IGES | IGES List of Grid Emission Factors | [https://www.iges.or.jp/en/pub/list-grid-emission-factor/e](https://www.iges.or.jp/en/pub/list-grid-emission-factor/en)n |
| EPA  Taiwan | 2006 IPCC Guidelines for National  Greenhouse Gas  Inventories | [https://www.ipcc-nggip.iges.or.jp/public/2006gl](https://www.ipcc-nggip.iges.or.jp/public/2006gl/)/ |

**GWP Table**

|  |  |
| --- | --- |
| **Industrial Designation.** | **Fifth Assessment Report (AR5)** |
| Carbon dioxide | 1 |
| Methane | 28 |
| Nitrous oxide | 265 |

"For the full list of GWP values, please refer to the GHG Protocol's official   
website: <https://ghgprotocol.org/sites/default/files/ghgp/Global-Warming-Potential-Values%20%28Feb%2016%202016%29_1.pdf>".

15. Uncertainty Assessment

The uncertainty assessment is conducted based on Greenhouse Gas Protocol’s “Short Guidance for Calculating Measurement and Estimation Uncertainty for GHG Emissions” (https://ghgprotocol.org/sites/default/files/2023-03/ghg-uncertainty.pdf) summarized using

the following steps:

1. Preparatory Data Assessment

2. Quantify identified uncertainties (direct and indirectly measured)

3. Combining uncertainties for activity data and emission factors

4. Aggregating uncertainties at site or company level

5. Document and interpret findings from uncertainty assessment

**Uncertainty Table (1-Jan-2022 to 31-Dec-2022)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Category** | **Scope** | **Emission (tCO₂e)** | **Proportion** | **Uncertainty(%)** |
| Stationary Combustion | Scope 1 | 0.00 | 0.00 | 0.00% |
| Mobile Combustion | Scope 1 | 4.34 | 12.07 | 0.00% |
| Industrial Processes | Scope 1 | 0.00 | 0.00 | 0.00% |
| Refrigerants and Fugitives | Scope 1 | 22.55 | 62.75 | 0.00% |
| Land Use, Land Use Change and Forestry (LULUCF) | Scope 1 | 0.00 | 0.00 | 0.00% |
| Purchased Electricity | Scope 2 | 3.15 | 8.78 | 0.00% |
| Imported Energy | Scope 2 | 0.00 | 0.00 | 0.00% |
| Upstream T&D | Scope 3 | 0.06 | 0.16 | 0.00% |
| Downstream T&D | Scope 3 | 0.00 | 0.00 | 0.00% |
| Employee Commuting | Scope 3 | 0.47 | 1.31 | 0.00% |
| Client and Visitor Transport | Scope 3 | 4.72 | 13.15 | 0.00% |
| Business Travel | Scope 3 | 0.65 | 1.80 | 0.00% |
| Purchased Goods | Scope 3 | 0.00 | 0.00 | 0.00% |
| Capital Goods that are Purchased and Amortized by an Organization | Scope 3 | 0.00 | 0.00 | 0.00% |
| Waste | Scope 3 | 0.00 | 0.00 | 0.00% |
| Use of Assets (through leased equipment) by an Organization | Scope 3 | 0.00 | 0.00 | 0.00% |
| Use of Services not Described in the above sub-categories by an Organization | Scope 3 | 0.00 | 0.00 | 0.00% |
| Use Stage of the Product | Scope 3 | 0.00 | 0.00 | 0.00% |
| Downstream Leased Assets | Scope 3 | 0.00 | 0.00 | 0.00% |
| End of Life Stage of the Product | Scope 3 | 0.00 | 0.00 | 0.00% |
| Investments | Scope 3 | 0.00 | 0.00 | 0.00% |
| GHG Emissions or Removals from Other Sources | Scope 3 | 0.00 | 0.00 | 0.00% |
| Uncertain Analysis Emission | Scope1, Scope2, | 35.94 | 100.00 | Average Emission total uncertainty |

Scope3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Category** | **Scope** | **Emission (tCO₂e)** | **Proportion** | **Uncertainty(%)** |
|  |  |  |  | 0.00% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Emission Type** | **Scope |**  **Category** | **Description** | **GHG Emission for reporting period (tCO₂e)** | **Aggregated**  **Certainty Ranking** |
|  | **1 | 1** | 1.1. Direct GHG emissions & removals from stationary combustion |  |  |
| 1.2. Direct GHG emissions & removals from mobile combustion |  |  |
| 1.3. Direct GHG emissions & removals from industrial processes |  |  |
| 1.4. Direct fugitive emissions from the release of GHGs in anthropogenic systems |  |  |
| 1.5. Direct GHG emissions and removals from land use, land use change and forestry (LULUCF) |  |  |
|  | **2 | 2** | 2.1. Indirect GHG emissions from imported electricity |  |  |
| 2.2. Indirect GHG emissions from imported energy |  |  |
| **3 | 3** | 3.1. Indirect GHG emissions from upstream transport and distribution for goods |  |  |
| 3.2. Indirect GHG emissions from downstream transport and distribution for goods |  |  |
| 3.3. Indirect GHG emissions from employee commuting |  |  |
| 3.4. Indirect GHG emissions from client and visitor transport |  |  |
| 3.5. Indirect GHG emissions from business travel |  |  |
| **3 | 4** | 4.1. Indirect GHG emissions from goods purchased by an organization |  |  |
| 4.2. Indirect GHG emissions from capital goods that are purchased and amortized by an organization |  |  |
| 4.3. Indirect GHG emissions from disposal services (of solid or liquid waste) used by an organization |  |  |
| 4.4. Indirect GHG emissions from use of assets (through leased equipment) by an organization |  |  |
| 4.5. Indirect GHG emissions from use of services not described in the above sub-categories by an  organization |  |  |
| **3 | 5** | 5.1. Indirect GHG emissions or removals from use stage of the product |  |  |
| 5.2. Indirect GHG emissions from downstream leased assets |  |  |
| 5.3. Indirect GHG emissions from end of life stage of the product |  |  |
| 5.4. Indirect GHG emissions from investments |  |  |
| **3 | 6** | 6.1. Indirect GHG emissions or removals from other sources |  |  |
| **Aggregated Uncertainty (for total of all directly and indirectly measured emissions):** | | |  | |
| **Uncertainty Ranking (for aggregated uncertainty):** | | |  | |

16. Greenhouse Gas Mitigation Activities   
**(a) GHG emission reduction and removal enhancement initiatives**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Emission Removal Activity** | **Scope** | **Category** | **Type** | **Carbon Emission Mitigated kgCO₂-e** |
|  | Scope 2 | Category 2 | 2.1 Imported Electricity | Renewable energy | 0 kgCO₂-e |
|  | Scope 1 | Category 1 | 1.2 Mobile Combustion | Renewable energy | 0 kgCO₂-e |
|  | Scope 1 | Category 1 | 1.1 Stationary Combustion | Renewable energy | 0 kgCO₂-e |

Absolute Emission Reduction compared to baseline year tCO2e

|  |  |  |  |
| --- | --- | --- | --- |
| Base Year | Reporting Year | Base Year Emission Reduction | Reporting Year Emission Reduction |

30000.00

25000.00

20000.00

15000.00

|  |  |
| --- | --- |
| **26959.05** | **26959.05** |

10000.00

5000.00

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0.00 | Scope 1 | |  | | --- | | **3154** | |  | | Scope 2 | |  | | --- | | **3154** | |  | | **8033.33** | Scope 3 | **8033.33** |

**End of Report…**