

GREENHOUSE GAS EMISSIONS INVENTORY

2022

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| 1. | Purpose | 2 |
|-----|------------------------------------|----|
| 2. | Company and inventory boundaries | 3 |
| 3. | Emission sources and categories | 4 |
| 4. | Methodologies and emission factors | 6 |
| 4.1 | Scope 1 | 7 |
| 4.2 | Scope 2 | 8 |
| 4.3 | Scope 3 | 9 |
| 5. | GHG Emissions | 22 |



1. Purpose

Somec Group, with the aim of improving its understanding around the overall impacts the business generates across the whole value chain, has decided to continue the path of reporting its greenhouse gas emissions (also "GHG emissions").

The Company's GHG inventory has been drafted in compliance with the *GHG Protocol Corporate Accounting and Reporting Standard – Revised Edition.* This document summaries the organizational boundaries, the emission categories considered, the methodologies applied, the emission factors used and the final results.

While Scope 1 and Scope 2 GHG emissions have already been disclosed within Somec 2022 Non-Financial Disclosure (also "Dichiarazione Non Finanziaria", DNF), for the second year on, Somec has expanded the reporting scope to include Scope 3 emissions, estimated in accordance with the GHG Protocol. More in detail, the Group has reported the following Scope 3 emission categories:

- Cat. 1 Purchase of goods and services
- Cat. 3 Fuel and energy-related activities
- Cat. 5 Waste generated by operations
- Cat. 6 Business travel
- Cat. 7 Employees commuting



2. Company and inventory boundaries

Somec Group is one of the world's leading players in the design, manufacturing, and implementation of large projects in the marine and civil sectors. Areas of activity include the production of glass façades and special architectural projects, public areas development and the production of professional kitchens. The Group's strategy aims to consolidate, through focused acquisitions and expansions, the ability to understand major customers' needs and to develop innovative solutions that can rely on a wide variety of highly specialized expertise. In 2022, the Group comprised more than 30 subsidiaries.

The organizational boundary considered for the GHG Inventory comprises companies located in Italy, USA, Canada, Slovakia:

Scope 1 and Scope 2:

Bluesteel Srl, Budri Srl, Fabbrica LLC, Fabbrica Works Srl, Gico Spa, Hysea Srl, Inoxtrend Srl, Oxin Srl, Pizza Group Srl, Primax Srl, Somec Spa, Squadra Srl, Skillmax Srl, Sotrade Sro, TSI Srl.

- Scope 3:
 - Cat. 1 Purchase of goods and services: Fabbrica LLC, Gico Spa, Oxin Srl, Pizza Group Srl, Primax Srl, Somec Spa.
 - **Cat. 3 Fuel and energy-related activities:** Bluesteel Srl, Fabbrica LLC, Fabbrica Works Srl, Gico Spa, Hysea Srl, Inoxtrend Srl, Oxin Srl, Pizza Group Srl, Primax Srl, Somec Spa, Squadra Srl, Skillmax Srl, Sotrade Sro, TSI Srl.
 - **Cat. 5 Waste generated by operations:** Bluesteel Srl, Fabbrica LLC, Fabbrica Works Srl, Gico Spa, Hysea Srl, Inoxtrend Srl, Oxin Srl, Pizza Group Srl, Primax Srl, Skillmax Srl, Somec Spa, TSI Srl.
 - **Cat. 6 Business travel:** Bluesteel Srl, Fabbrica LLC, Gico Spa, Hysea Srl, Inoxtrend Srl, Oxin Srl, PizzaGroup Srl, Primax Srl, Somec Spa, Skillmax Srl, TSI Srl.
 - Cat. 7 Employees commuting: Bluesteel Srl, Atelier de Façade Montréal Inc, Fabbrica LLC, Fabbrica Works Srl, Gico Spa, Hysea Srl, Inoxtrend Srl, Oxin Srl, PizzaGroup Srl, Primax Srl, Skillbuild Srl, Skillmax Srl, Somec Spa, Squadra Srl, TSI Srl.

The stated inventory reporting period is comprised between January 2022 and December 2022.

The majority of reported GHG emissions by Somec Group is carbon dioxide equivalent (CO_{2e}). Oxidation factor is always assumed to be equal to 1.

The inventory has not been subjected to external verification.



3. Emission sources and categories

Somec Group identified its main sources of GHG emissions by following the guidelines published in the *GHG Protocol Corporate Accounting and Reporting Standard*: "Appendix D - Industry Sectors and Scopes," which lists GHG sources and activities along the value chain for different industry scopes. For the calculation of Scope 3, the process relied on two additional documents, namely the "Corporate Value Chain (Scope 3) Accounting and Reporting Standard - Supplement to the GHG Protocol Corporate Accounting and Reporting Standard" and the "Technical Guidance for Calculating Scope 3 Emissions - Supplement to the Corporate Value Chain (Scope 3) Accounting to the Corporate Value Chain (Scope 3) Accounting & Reporting Standard" published by the GHG Protocol.

The emission categories considered are the following:

| SCOPE | CATEGORY and SOURCE |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCOPE 1 (Direct GHG emissions) | STATIONARY COMBUSTION: HEAT AND OVEN TESTING: natural gas and LPG. MOBILE COMBUSTION: CAR FLEET: diesel and petrol consumption. FUGITIVE EMISSIONS: Leakages of refrigerant gases from air-conditioning systems. |
| SCOPE 2 (Energy indirect GHG emissions) | STATIONARY COMBUSTION: Electricity purchased from the national grid. |
| SCOPE 3 (Other indirect GHG emissions) | <u>CAT. 1 – PURCHASED GOODS & SERVICES:</u> Upstream emissions from the production of products purchased or acquired. <u>CAT. 3 – FUEL AND ENERGY-RELATED ACTIVITIES:</u> Emissions related to the production of fuels and energy purchased and consumed. <u>CAT. 5 – WASTE GENERATED IN OPERATIONS:</u> Emissions from third-party disposal and treatment of waste generated by the company's owner or controlled operations. <u>CAT. 6 – BUSINESS TRAVEL:</u> Emissions from the transportation of employees for business-related activities. |



SCOPE

CATEGORY and SOURCE

▶ CAT. 7 – EMPLOYEES COMMUTING:

 Emissions from the transportation of employees between their homes and their worksites.



4. Methodologies and emission factors

The Group has calculated its GHG emissions through the application of documented emission factors. These factors are calculated ratios relating GHG emissions to a proxy measure of activity at an emissions source. The formula applied is:

GHG Emissions = Emission factor * Activity data

The main sources of the emission factors considered are identified based on the following databases:

- DEFRA (Department for Environmental, Food & Rural Affairs): it is the UK government department; its database contains EFs for Scope 1, Scope 2, and Scope 3 emissions.
- TERNA: it is a major European operator in power transmission networks. Emission factors, used to calculate Scope 2 Location-Based GHG emissions, are expressed in CO₂, as TERNA does not consider the greenhouse effect of methane and nitrous oxide.
- AIB: European Attribute Mixes (EAM) and residual mixes are reported for all countries by the Association of Issuing Bodies. This source was used to calculate Scope 2 Market-Based GHG emissions deriving from the electricity purchased in Europe.
- **GREEN-E:** it publishes residual mix emission rates using voluntary Green-e[®] renewable energy sales in the U.S. market. The residual mix emission rate used must be based on the eGRID subregion in which the electricity is purchased.
- ECOINVENT: its database covers life cycle inventory (hereafter "LCI") and provides well-documented process data for thousands of different products and processes. EcoInvent database contains EF for Scope 3.1 emissions (Purchased Goods and Services).

The following paragraphs will explain the data and emission factors applied, by emission source. Any exception and assumption considered during the emission categories calculation is duly specified in the corresponding section.



4.1 Scope 1

The Corporate Standard, for Scope 1, requires quantifying emissions from natural gas and other fossil fuel consumptions, fluorinated gas emissions, as well as emissions from transportation activities under the company's control.

| GHG emissions Scope 1 - 2022 | | | | | | |
|------------------------------------------------|------------------------------------|----------------|--------------------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| | | | | | | |
| Emission source | Activity data | Source | CO ₂ / activity data | GWP | | |
| Natural gas for heating and oven testing | Fuel consumption [m ³] | | 2.02 [kgCO _{2e} /m ³] | CO ₂ equivalent has been considered. | | |
| LPG for heating and oven testing | Fuel consumption [I] | DEFRA, 2022 | DEFRA, 2022 | DEFRA, | 1.56 [kgCO _{2e} /l] | CO ₂ equivalent has been considered. |
| Fuels for car fleet | Fuel consumption (diesel) [I] | | | 2.70 [kgCO _{2e} /l] | CO ₂ equivalent has been considered. | |
| long-term leasing) | Fuel consumption (petrol) [I] | | | | 2.34 [kgCO _{2e} /l] | CO ₂ equivalent has been considered. |
| | GHG | emissior | ns Scope 1 - 2022 | | | |
| | | | | | | |
| Emission source | Activity data | Source | CO ₂ / activity data | GWP | | |
| | Leakages (R410A) [kg] | DEFRA | 2,088.00 [kgCO _{2e} /kg] | | | |

The assumptions made are as follows:

Leakages

Leakages

(R427A) [kg]

(R407C) [kg]

Leakages from air-

refrigerant gases

conditioning

systems of

 For car fleet emissions, using a conservative approach, long term-leased vehicles are considered as they were property assets as per Scope 1 accounting.

1,774.00 [kgCO_{2e}/kg]

2,138.25 [kgCO_{2e}/kg]

2022

IPCC Fifth

Assessme

nt Report (AR5)

The refrigerant gas amount released in the atmosphere have been supposed to be equal to the total amount of gases added to the air conditioning devices for cooling during the reporting year. For the plants based in Italy, data source for refrigerant gases refilling is the "FGas Declaration", which is mandatory for the devices with a capacity of more than 3kg of refrigerant gases (D.P.R. n. 43/2012). GWPs have been calculated considering the refrigerant gases composition and blends found on maintenance report.

IPCC Fifth

Assessment

Report (AR5)



4.2 Scope 2

The Corporate Standard requires organizations to quantify emissions from the generation of purchased and consumed electricity, steam, heat, or cooling. These are considered as an indirect emission source since they are a consequence of the reporting organization's activities but occur at sources owned or controlled by another organization. Scope 2 emissions are calculated with two different approaches:

- Location-Based Approach: this method is based on an average emissions factor related to the national energy mix specific to each country in which Somec Group operates. The higher the share of renewable energy used within the country the lower the associated emissions factor.
- Market-Based Approach: this method considers the renewable electricity purchased. Following this approach, a zero emissions factor is applied to any share of renewable energy that has been purchased with Guarantee of Origin (GO) certificates. The remaining purchased energy is considered through an emission factor that considers the residual mix of the market, that reflects the energy share produced by non-renewable sources.





4.3 Scope 3

Scope 3 indirect emissions include all indirect emissions not reported in Scope 2 and occurring across the value chain of the reporting Company. Scope 3 emissions are classified into 15 categories, subdivided into upstream and downstream activities.

Somec Group, also for the reporting year 2022, estimated the following categories' selection:

- Cat. 1 Purchased goods & services
- Cat. 3 Fuel and energy-related activities
- Cat. 5 Waste generated in operations
- Cat. 6 Business travel
- Cat. 7 Employees commuting



GHG emissions Scope 3 – Cat. 1: Purchased goods & services – 2022

| Emission source | Activity data | Source | CO ₂ / activity data | GWP |
|-------------------------------------|----------------------------------------------------|------------|----------------------------------------------------------|-------------------------------------------------|
| Purchased Products Production | Purchased Products (Aluminum) [kg] | DEFRA 2022 | 9,12 [kgCO _{2e} /ton] Aluminum cans and foil | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Stainless steel) [kg] | DEFRA 2022 | 3,10 [kgCO _{2e} /ton] Steel cans | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Carbon steel) [kg] | DEFRA 2022 | 3,10 [kgCO _{2e} /ton] Steel cans | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Zama) [kg] | DEFRA 2022 | 9,12 [kgCO _{2e} /ton] Aluminum cans and foil | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Brass) [kg] | DEFRA 2022 | 4,02 [kgCO _{2e} /ton] Metals | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Glass) [kg] | DEFRA 2022 | 1,40 [kgCO _{2e} /ton] Glass | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Lubricant) [kg] | DEFRA 2022 | 1,40 [kgCO _{2e} /ton] Mineral oil | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Solvent) [kg] | Ecoinvent | Solvent production, organic (GLO) | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Gasket) [kg] | DEFRA 2022 | 3,12 [kgCO₂₀/ton] Average plastic | CO ₂ equivalent has been considered. |



| GHG emissions Scope 3 – Cat. 1: Purchased goods & services – 2022 | | | | | | |
|-------------------------------------------------------------------|--------------------------------------------------------|------------|----------------------------------------------------------------------------------------|-------------------------------------------------|--|--|
| | | | Emission factors | | | |
| Emission source | Activity data | Source | CO ₂ / activity data | GWP | | |
| Purchased | Purchased Products (Screws and | DEFRA 2022 | 4,02 [kgCO _{2e} /ton] Metals | CO ₂ equivalent has been considered. | | |
| Production | Hilti components) [kg] | DEFRA 2022 | 3,10 [kgCO2e/ton] Steel cans | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Stone wool) [kg] | DEFRA 2022 | 1,86 [kgCO _{2e} /ton] Insulation | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Plastic) [kg] | DEFRA 2022 | 3,12 [kgCO _{2e} /ton] Average plastics | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Fittings) [kg] | DEFRA 2022 | 9,12 [kgCO _{2e} /ton] Aluminum cans and foil | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Salt for insulating) [kg] | Ecoinvent | Soda production, solvay process (RER) | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Insulation) [kg] | DEFRA 2022 | 1,86 [kgCO _{2e} /ton] Insulation | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Powder coatings) [kg] | Ecoinvent | Coating powder production (RER) | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Liquid Paints) [kg] | Ecoinvent | Alkyd paint production, white, water- based, product in 60% solution state (RER) | CO ₂ equivalent has been considered. | | |



GHG emissions Scope 3 – Cat. 1: Purchased goods & services – 2022

| | Activity data | | | |
|-------------------------------------|------------------------------------------------|------------|-------------------------------------------------------|-------------------------------------------------|
| Emission source | | Source | CO ₂ / activity data | GWP |
| Purchased Products Production | Purchased Products (Resins) [kg] | Ecoinvent | Phenolic resin production (RER) | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Wood) [kg] | DEFRA 2022 | 0,31 [kgCO _{2e} /ton] Wood | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Cardboard) [kg] | DEFRA 2022 | 0,83 [kgCO2e/ton] Board | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Nylon 6) [kg] | DEFRA 2022 | 3,12 [kgCO _{2e} /ton] Average plastics | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Polystyrene) [kg] | DEFRA 2022 | 3,78 [kgCO _{2e} /ton] PS (incl. forming) | CO2 equivalent has been considered. |
| Purchased Products Production | Purchased Products (PVC) [kg] | DEFRA 2022 | 3,41 [kgCO _{2e} /ton] PVC (incl. forming) | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (PET) [kg] | DEFRA 2022 | 4,03 [kgCO _{2e} /ton] PET (incl. forming) | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (PE) [kg] | DEFRA 2022 | 2,60 [kgCO2e/ton] LDPE and LLDPE (incl. Forming) | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (PP) [kg] | DEFRA 2022 | 3,10 [kgCO _{2e} /ton] PP (incl. forming) | CO ₂ equivalent has been considered. |



| Emission source | Activity data | Source | CO ₂ / activity data | GWP |
|-------------------------------------|-------------------------------------------------------------|------------|-------------------------------------------|-------------------------------------------------|
| Purchased Products Production | Purchased Products (Electrical Items) [kg] | DEFRA 2022 | 24,87 [kgCO2e/ton] Electrical items IT | CO2 equivalent has been considered. |
| Purchased Products Production | Purchased Products (ferritic sheet metal) [kg] | DEFRA 2022 | 3,10 [kgCO2e/ton] Steel cans | CO2 equivalent has been considered. |
| Purchased Products Production | Purchased Products (Grease) [kg] | Ecoinvent | Lubricating oil production (RER) | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Rubber) [kg] | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Nylon 6) [kg] | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Polyamide) [kg] | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Polycarbonate) [kg] | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Polymethylme thacrylate) [kg] | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. |
| Purchased Products Production | Purchased Products (Polytetrafluoro ethylene) [kg] | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. |



| GHG emissions Scope 3 – Cat. 1: Purchased goods & services – 2022 | | | | | | |
|-------------------------------------------------------------------|-----------------------------------------------------|------------|----------------------------------------------------------|-------------------------------------------------|--|--|
| | | | | | | |
| Emission source | Activity data | Source | CO ₂ / activity data | GWP | | |
| | | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Polyurethane) [kg] | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. | | |
| | | DEFRA 2022 | 3,12 [kgCO2e/ton] Average plastic | CO ₂ equivalent has been considered. | | |
| | Purchased Products (Electric motor) [kg] | DEFRA 2022 | 4,02 [kgCO2e/ton] Metals | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | | DEFRA 2022 | 9,12 [kgCO _{2e} /ton] Aluminum cans and foil | CO ₂ equivalent has been considered. | | |
| | | DEFRA 2022 | 3,10 [kgCO2e/ton] Steel cans | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Iron) [kg] | DEFRA 2022 | 3,10 [kgCO2e/ton] Steel cans | CO2 equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Other metal hobs) [kg] | DEFRA 2021 | 3,10 [kgCO _{2e} /ton] Metal steel cans | CO ₂ equivalent has been considered. | | |
| Purchased Products Production | Purchased Products (Paper) [kg] | DEFRA 2022 | 0,92 [kgCO2e/ton] Paper | CO ₂ equivalent has been considered. | | |



| GHG emissions Scope 3 – Cat. 1: Purchased goods & services – 2022 | | | | | |
|-------------------------------------------------------------------|------------------------------------------------------------|------------|-----------------------------------------------------|-------------------------------------------------|--|
| | | | | | |
| Emission source | Activity data | Source | CO ₂ / activity data | GWP | |
| Purchased Products Production | Purchased Products (Nitrogen) [kg] | Ecoinvent | Air separation, cryogenic (RER) | CO ₂ equivalent has been considered. | |
| Purchased Products Production | Purchased Products (Heating elements) [kg] | DEFRA 2022 | 4,02 [kgCO2e/ton] Metals | CO ₂ equivalent has been considered. | |
| Purchased | Purchased Products (Cooking plates) [kg] | DEFRA 2022 | 4,02 [kgCO2e/ton] Metals | CO ₂ equivalent has been considered. | |
| Products | | DEFRA 2022 | 3,10 [kgCO _{2e} /ton] Steel cans | CO ₂ equivalent has been considered. | |
| Purchased Products Production | Purchased Products (Cast iron components) [kg] | DEFRA 2022 | 4,02 [kgCO2e/ton] Metals | CO ₂ equivalent has been considered. | |
| Purchased Products Production | Purchased Products (Isopropanol) [kg] | Ecoinvent | Isopropanol production (RoW) | CO ₂ equivalent has been considered. | |
| Purchased Products Production | Purchased Products (LLDPE) [kg] | Ecoinvent | 2,60 [kgCO2e/ton] LDPE and LLDPE (incl. Forming) | CO ₂ equivalent has been considered. | |
| Purchased Products Production | Purchased Products (LDPE) [kg] | Ecoinvent | 2,60 [kgCO2e/ton] LDPE and LLDPE (incl. Forming) | CO ₂ equivalent has been considered. | |



| GHG emissions Scope 3 – Cat. 3: Fuel and energy-related activities - 2022 | | | | | | |
|---------------------------------------------------------------------------|-------------------------------------------|------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|--|
| | | | Emission factors | | | |
| Emission source | Activity data | Source | CO ₂ / activity data | GWP | | |
| Upstream Emissions of purchased fuels | Fuel consumption (Natural gas) [m³] | DEFRA 2022 | 0.34 [kgCO _{2e} /m ³] | CO ₂ equivalent has been considered. | | |
| Upstream Emissions of purchased fuels | Fuel consumption (LPG) [I] | DEFRA 2022 | 0.18 [kgCO _{2e} /l] | CO ₂ equivalent has been considered. | | |
| Upstream Emissions of purchased fuels | Fuel consumption (Diesel) [I] | DEFRA 2022 | 0.61 [kgCO _{2e} /l] | CO ₂ equivalent has been considered. | | |
| Upstream Emissions of purchased fuels | Fuel consumption (Petrol) [I] | DEFRA 2022 | 0.61 [kgCO _{2e} /l] | CO ₂ equivalent has been considered. | | |
| Upstream Emissions of purchased electricity | Electricity consumption Italy [kWh] | DEFRA 2021 | <u>ITALY:</u> 0,09 [kgCO₂e/kWh] <u>US:</u> 0,11 [kgCO₂e/kWh] | CO ₂ equivalent has been considered. | | |
| Transmission and Distribution losses | Electricity consumption USA [kWh] | DEFRA 2021 | <u>ITALY:</u> 0,01 [kgCO _{2e} /kWh] <u>US:</u> 0,01 [kgCO _{2e} /kWh] | CO ₂ equivalent has been considered. | | |

GHG emissions Scope 3 – Cat. 3: Fuel and energy-related activities - 2022

GHG emissions Scope 3 – Cat. 5: Waste Generated in operations - 2022

| Emission source | Activity data | Source | CO ₂ / activity data | GWP |
|-------------------------------------|-----------------------------------------------|------------|----------------------------------|----------------------------------------------------------|
| Waste generated in operations | Metal: Scrap Metal (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |



GHG emissions Scope 3 – Cat. 5: Waste Generated in operations - 2022

| Emission source | Activity data | Source | CO ₂ / activity data | GWP |
|-------------------------------------|-------------------------------------------------------------|------------|----------------------------------|----------------------------------------------------------|
| Waste generated in operations | Metal: Aluminum cans and foil (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Metal: Steel Cans (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Construction: Wood (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Construction: Bricks (Open loop) [ton] | DEFRA 2022 | 0,98 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Construction: Insulation (Combustion) [ton] | DEFRA 2022 | 1.23 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Construction: Insulation (Landfill) [ton] | DEFRA 2022 | 1.23 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Construction: Plasterboard (Closed loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Other: Clothing (Combustion) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Other: Clothing (Closed loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |



GHG emissions Scope 3 – Cat. 5: Waste Generated in operations - 2022

| Emission source | Activity data | Source | CO ₂ / activity data | GWP |
|-------------------------------------|-------------------------------------------------------------------------|------------|-------------------------------------|----------------------------------------------------------|
| Waste generated in operations | Other: Glass (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Paper: Paper and board mixed (Closed loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Paper: Paper and board mixed (Landfill) [ton] | DEFRA 2022 | 1,041.78 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Plastic: average plastics film (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Plastic: Average plastics (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Refuse: Commercial and industrial waste (Closed loop) [ton] | DEFRA 2021 | 21.29 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Refuse: Commercial and industrial waste (Landfill) [ton] | DEFRA 2022 | 467. 01 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Refuse: Commercial and industrial waste (Combustion) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Plastic: Average plastics (Combustion) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |



| GHG emissions Scope 3 – Cat. 5: Waste Generated in operations - 2022 | | | | |
|----------------------------------------------------------------------|------------------------------------------------------------|------------|-----------------------------------|----------------------------------------------------------|
| Emission source | Activity data | | | |
| | | Source | CO ₂ / activity data | GWP |
| Waste generated in operations | Electrical items: WAEE-mixed (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Electrical items: Batteries (Open loop) [ton] | DEFRA 2022 | 21.28 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Construction: Insulation (Landfill) [ton] | DEFRA 2022 | 1.23 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |
| Waste generated in operations | Refuse: Household residual waste (Landfill) [ton] | DEFRA 2022 | 446.20 [kg CO _{2e} /ton] | CO ₂ equivalent has been considered. |

| GHG emissions Scope 3 | - Cat. 6: Business | travels - 2022 |
|-----------------------|--------------------|----------------|
|-----------------------|--------------------|----------------|

| | Activity data | | | |
|-------------------------------|-----------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Emission source | | Source | CO ₂ / activity data | GWP |
| Business travels by air | Flights: Average passengers [passenger*km] | DEFRA 2022 | INTERNATIONAL: 0.10 [kg CO _{2e} /passenger*km] <u>SHORT-HAUL:</u> 0.08 [kg CO _{2e} /passenger*km] <u>DOMESTIC:</u> 0.13 [kg CO _{2e} /passenger*km] | CO ₂ equivalent has been considered. |
| | Distance covered per passenger [passenger*km] | ICAO 2018 | - | Only CO ₂ has been considered. |
| Business travels by car | Car (by size): Average car [km] | DEFRA 2022 | 0.17 [kg CO _{2e} /km] | CO ₂ equivalent has been considered. |



| GHG emissions Scope 3 – Cat. 6: Business travels – 2022 | | | | |
|---------------------------------------------------------|-----------------------------------------------------|------------------------------|--------------------------------------------|----------------------------------------------------------|
| Emission source | Activity data | | | |
| | | Source | CO ₂ / activity data | GWP |
| Business travels by train | Rail: National rail [passenger*km] | DEFRA 2022 | 0.04 [kg CO _{2e} /passenger*km] | CO ₂ equivalent has been considered. |
| | Rail: International rail [passenger*km] | DEFRA 2022 | 0.005 [kg CO _{2e} /passenger*km] | CO ₂ equivalent has been considered. |
| | Distance covered per passenger [passenger*km] | Ferrovie dello Stato 2022 | 0,0362 [kg CO _{2e} /passenger*km] | CO ₂ equivalent has been considered. |

| GHG emissions Scope 3 – Cat. 7: Employees commuting – 2022 | | | | |
|------------------------------------------------------------|---------------------------------------|------------|---------------------------------|-------------------------------------------------------|
| | | | | |
| Emission source | Activity data | Source | CO ₂ / activity data | GWP |
| Commuting with an owned car (unknown fuel) | Car (by size): Average car [km] | DEFRA 2022 | 0.17 [kg CO _{2e} /km] | CO ₂ equivalent has been considered. |

The limitations, omissions and assumptions made for each emission category are listed below:

Cat. 1 - Purchase of goods and services

The calculations considered the cradle-to-gate emissions pertaining to each material and product purchased. Given the lack of emission factors' availability in literature, assumptions were made for some materials. Furthermore, given the lack of primary data concerning the composition of some semi-finished and finished products, estimations were made on the materials to be considered. In addition, for Somec Spa, PizzaGroup Srl and Gico Spa, electrical materials and induction generators were excluded since it was not possible to esteem neither their composition nor their weight.



Cat. 5 - Waste generated by operations

It was assumed that activities reported by companies as *other forms of recovery* were classified as recycling activities, while activities under *other disposal operations* were classified as landfill. In addition, if data were available in literature, it was assumed that recycling activities are related to an "Open-loop" cycle.

Cat. 6 - Business travel

For Somec Spa, Primax Srl, and Hysea Srl air travel, emissions calculated according to ICAO methodology¹ and provided by flight agencies were used. DEFRA factors were used for emission estimations from other companies' air travels. In this case, emission factors were considered by distinguishing the distance of the routes as domestic (routes less than 800 km), short-haul (routes between 800 km and 3700 km), and international (routes greaten than 3700 km). The Radiative Forcing (RF) was not considered. For train travel within Italian territory, emissions were calculated with the emission factor published by Ferrovie dello Stato in 2022². For all other train travels, national and international rail emission factors, published by DEFRA, were used.

Cat. 7 – Employees commuting

Emissions resulting from employees commuting were estimated based on employee's residence ZIP codes. The distance between the point of departure and the point of arrival was calculated and expressed in km. Distances exceeding 250 km have been excluded from the calculations. In addition, due to the lack of specific information on the type of cars and fuels used, the EF used considers an average car with a generic, unknown fuel.

¹ Source: <u>Methodology ICAO Carbon Calculator_v11-2018.pdf</u>



5. GHG Emissions

In the table below are reported Somec Group's total GHG emissions for 2022.

| GHG EMISSIONS | UoM | 2022 |
|------------------------------------------------------------------------------------------------------------|--------------------|-----------|
| DIRECT EMISSIONS (SCOPE 1) | tCO _{2e} | 1,661.60 |
| - emissions resulting from natural gas used for heating and oven testing | tCO₂e | 982.00 |
| - emissions resulting from LPG for heating purposes and oven testing | tCO ₂ e | 19.60 |
| - emissions resulting from diesel used for Company's car fleet (long term leasing and owned car) | tCO₂e | 460.70 |
| - emissions resulting from gasoline used for Company's car fleet (long term leasing and owned car) | tCO₂e | 79.90 |
| emissions of refrigerant gases resulting from leakages of air-conditioning systems | tCO₂e | 119.40 |
| INDIRECT EMISSIONS (SCOPE 2) – LOCATION BASED APPROACH | tCO ₂ | 1,582.00 |
| INDIRECT EMISSIONS (SCOPE 2) – MARKET BASED APPROACH | tCO₂e | 1,179.80 |
| OTHER INDIRECT EMISSIONS (SCOPE 3) | tCO₂e | 73,649,03 |
| Cat. 1 – Purchased goods & services | tCO₂e | 71,080.50 |
| Cat. 3 – Fuel and energy-related activities | tCO₂e | 452.67 |
| Cat. 5 – Waste generated in operations | tCO₂e | 244.06 |
| Cat. 6 – Business travel | tCO ₂ e | 197.14 |
| Cat. 7 – Employees commuting | tCO₂e | 1,674.65 |
| TOTAL – SCOPE 1, SCOPE 2 LOCATION- BASED, SCOPE 3 | tCO₂e | 76,892.63 |
| TOTAL – SCOPE 1, SCOPE 2 MARKET-BASED, SCOPE 3 | tCO₂e | 76,490,43 |



| Acronyms and Definitions | | | |
|--------------------------|-------------------------------------------|--|--|
| Acronym | Definition | | |
| GHG | Greenhouse gases | | |
| EF | Emission factor | | |
| GWP | Global Warming Potential | | |
| IPCC | Intergovernmental Panel on Climate Change | | |
| GO | Guarantee of Origin | | |