

Introduction

This report is part of the Elysée's Strategy / Pillar 4 / Green Elysée, subdivided into the following categories:

- 4.1 Carbon Footprint
- 4.2 Green Energy
- 4.3 Zero Waste
- 4.4 Circular Economy
- 4.5 Green Circular products and Technologies for Circularity
- 4.6 Green Policy

The scope of this report is to provide the latest assessment on current Greenhouse Gas (GHG) emissions in comparison with past emission levels. As this is the **second report** published by the company Elysée, the focus relies on the assessment of the greenhouses gases emissions for 2021 and the comparison of the results with those of 2020. The report layout and emissions categorization has been developed according to CYS EN ISO 14064-1:2019 standard, in alignment with the potential to be certified by the standard in the future.

This report was prepared by Isotech Ltd, Environmental Research and Consultancy. It has been assigned by the Management of Elysée, with the aim of investigating the GHG emissions related to the operations of the company and a plan for future actions.

Elysée has developed and implements the following strategy



Pillar 1: Commercial Position

Pillar 2: Communication

Great Place to Work

Green Elysée

Smart Elysée

Solution Selling and Innovative NPD Plan

-GOALS₂₀₂₁



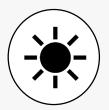
Implement GHG
Emissions reduction
initiatives



Invest in Carbon removal schemes



Certified Company's and products' environmental footprint



Investing in Renewable Energy





Quantify our GHG Emissions



Implement Energy
Efficiency projects
across our operations



Improve our material utilization



Zero waste-to-landfill

Boundaries

Organizational Boundaries

Elysée accounts for the GHG emissions and removals from all facilities over which it has operational control. These facilities include the factory, building facilities and sales stores (Table 2-1).

Table 1: A breakdown of Elysée's facilities, including the factory, building facilities and sales stores.

Reporting Boundaries

Direct GHG Emissions and Removals

The term direct GHG emissions stands for Greenhouse Gases released into the atmosphere from a process owned or controlled by the company. The direct GHG emissions are calculated separately, where possible, for CO_2 , CH_4 , N_2O , NF_3 , SF_6 , HFCs and PFCs emissions in tonnes of CO_{2eq} .

The same applies for direct GHG removals.

Indirect GHG Emissions and Removals

The term indirect GHG emissions stands for the GHG emission that is a consequence of the company's operations and activities but occurs from GHG sources that are not owned or controlled by the organization.

The same applies for indirect GHG removals.

Table 1: Factory and on-site office building

Departments

Injection	Maintenance
PVC	Accounting
PE	Human Resources
Assembly	Health & Safety
Logistics & Warehouse	Sales
Workshop	Management
Quality Control	Research & Development
Stores	
Strovolos	Larnaca
Frenaros	Ergates
Paphos	Limassol

Results Overview

21%

increased production

19,684tn CO_{2eq}

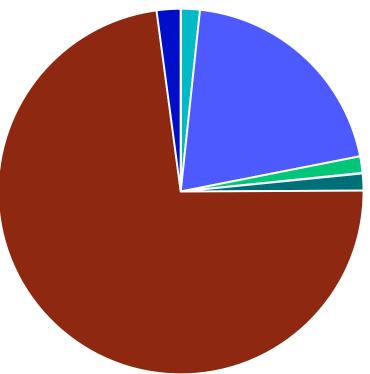
total emissions for 2021

0.0025 tnCO_{2eq}/kg

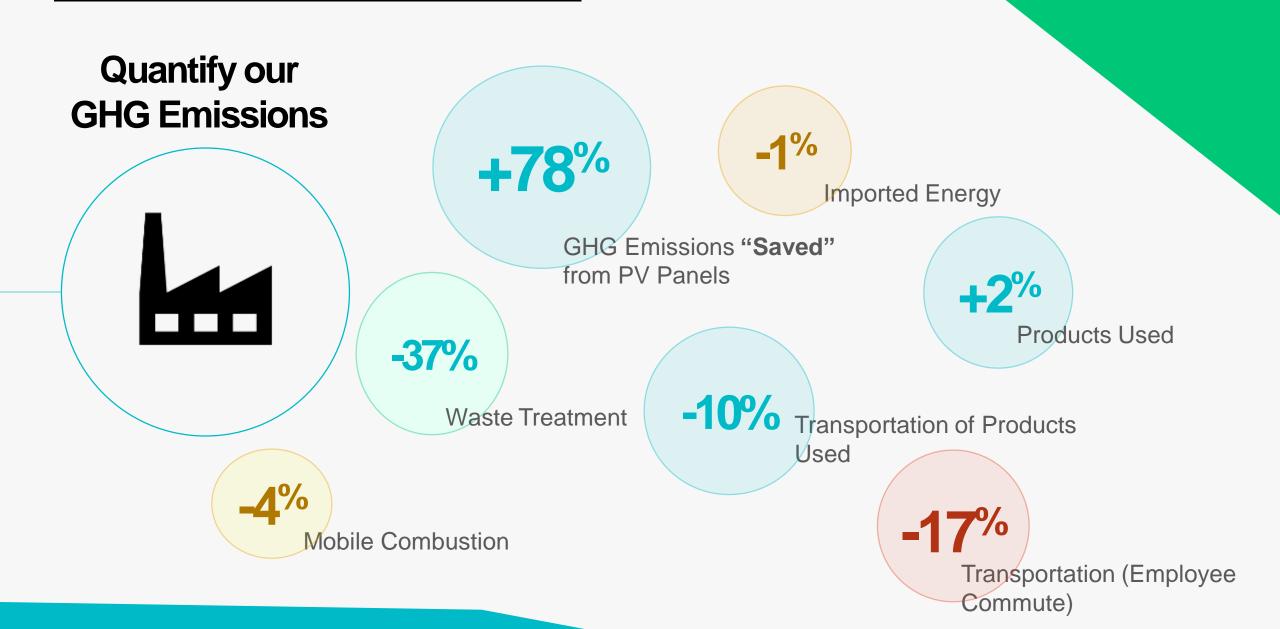
specific CO_{2eq} emissions per kg of material used

Results overview

GHG Emissions Summary, 2021



- Stationary Combustion
- Mobile Combustion
- Fugitive Emissions
- Imported Energy
- Water Usage
- Transportation (Employee Commute)
- Transportation (Air Travel, Personel)
- Products Shipping
- Products Used (Goods & Services)



-16%

Specific Energy in fuel consumption

0.0025 tnCO2_{eq}

emissions per kg of raw material used [Report 4.1 Carbon Footprint]



Improved quantification of GHG Emissions.

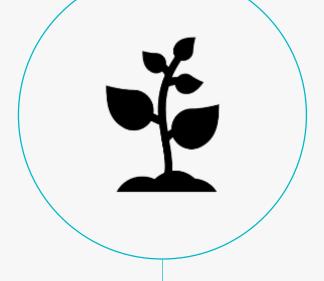
Initiation and funding of the procedure through CYS, for the quantification of CO₂ sequestration from trees.

Upkeep of 82 trees planted in 2020.

Implement GHG Emissions reduction initiatives



Invest in Carbon removal schemes



Proposal towards the Ministry of Agriculture for the cooperation in the development of the methodology of CO2 sequestration from trees.

Request for the proposal has been approved by the Cyprus Standards Organization.

Drafting of the guideline expected to commence in 2023.

The sum of sequestrated carbon from the plantations in 2020 and 2021 was **0.098 ton CO_{2eq} and 0.110 ton** CO_{2eq} respectively

Certified Company's and products' environmental footprint



ISO 14064 preliminary work has been prepared.

Application for certification has been submitted.

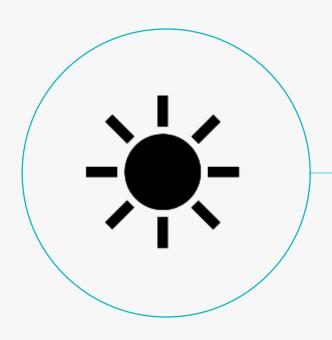
20% of the factory electricity needs covered by PV

78%

increased emissions "savings"

4.04% of the total emitted GHGs

Investing in Renewable Energy



Third phase of solar panel installation completed in September 2021

Implement Energy Efficiency projects across our operations



Development of PV washing piping system

3% increase in PV efficiency

4

Development of 4 circular products out of recycled plastic

Development and operation of the plastics recycling unit

Improve our material utilization



Quantifying waste generation intensity

R&D for new circular products

Design of an on-site recycling unit

Zero waste-to-landfill

Circular Products out of recycled plastic

-1.4% mixed waste disposed to landfill

- Development and operation of the plastics recycling unit.
- Development of 4 circular products out of recycled plastic.

[Report 4.5 Green Circular Product]

 Specific waste streams, delivered to the responsible waste treatment facilities.

[Report 4.3 Zero Waste]



Needs and Challenges

- Transportation of employees from their homes to their workplaces has been incorporated in the indirect emissions partially. There is still a need for more information.
- Transportation of visitors to the company's facilities must be incorporated in the indirect emissions.
- Emissions from energy needed, to produce the raw materials used by the company. This data should be available by the company's suppliers and set an important criterion on the selection of suppliers.
- Emissions from end-of-life stage of the product sold by the reporting company, covering the disposal of solid and liquid waste.



CYS national guideline for the calculation of CO₂ sequestration per tree

Work with Ministry of Agriculture officials for the development of the CO₂ sequestration per tree methodology.

Waste generation rate

Training employees to minimize waste & improve recovery rates.

Reduce the amount of waste generation by 5%.

Treat each waste stream in the most sustainable way possible.

Quantities of

treated by

facility

designated

waste streams

Reduce the amount of waste landfilled by 10%

Certification of production GHG **Emissions**

Aquire ISO14064 Certificate

Plant 1000 trees

Absorption of CO2 from trees planted and maintained







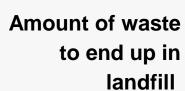
Recycling Rate

Pilot program for material recovery to produce circular products.

Use 50 tons of recycled plastic for the production of new products

Recycling permit by the Department of Environment

Apply for recycling Permit



Partnership with local recycling plants to manage waste

Reduce the amount of waste ending up in landfill by 10%

Waste Transportation permit by the Department of Environment

Acquire waste transportation permit for the collection and transportation of plastic waste

Quantities of untreated/ stored waste streams

Investigation of new materials or solutions for waste streams that are hard to treat (eg printing label, sicker labels, strapping)

All "Hard to treat" Waste to be diverted away from landfill



