

# 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 **third report** published by the company Elysée, the focus relies on the assessment of the greenhouses gases emissions for 2022 and the comparison of the results with those of 2020 and 2021. 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



# -GOALS<sub>2022</sub>



Implement GHG
Emissions reduction
initiatives

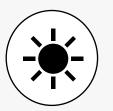


Invest in Carbon removal schemes

**Carbon Footprint** 



Certified Company's and products' environmental footprint



Investing in Renewable Energy

# **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**

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  $CO_{2eq}$ .

#### **Indirect GHG Emissions**

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.

For the purpose of this report the production and transportation of raw materials has been excluded from the calculation in order to allow fair comparison between the activities of which the company has control over and can influence the emission's total.

If requested the calculations can be separately provided.

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**

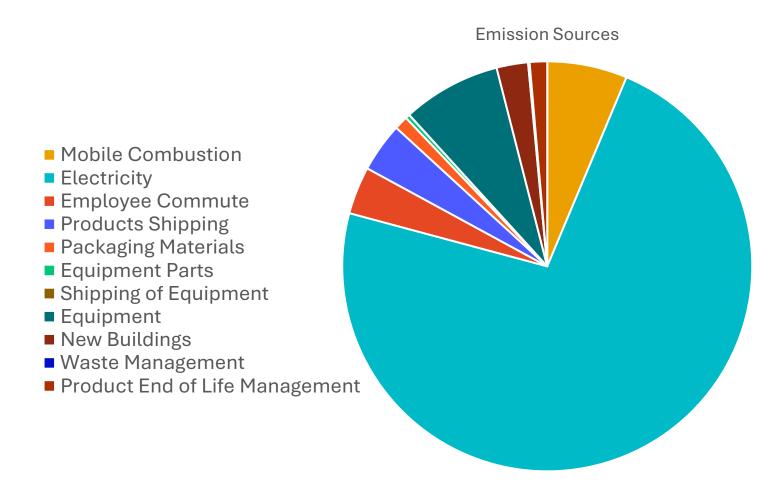
4.799tn CO<sub>2eq</sub>

total emissions for 2022

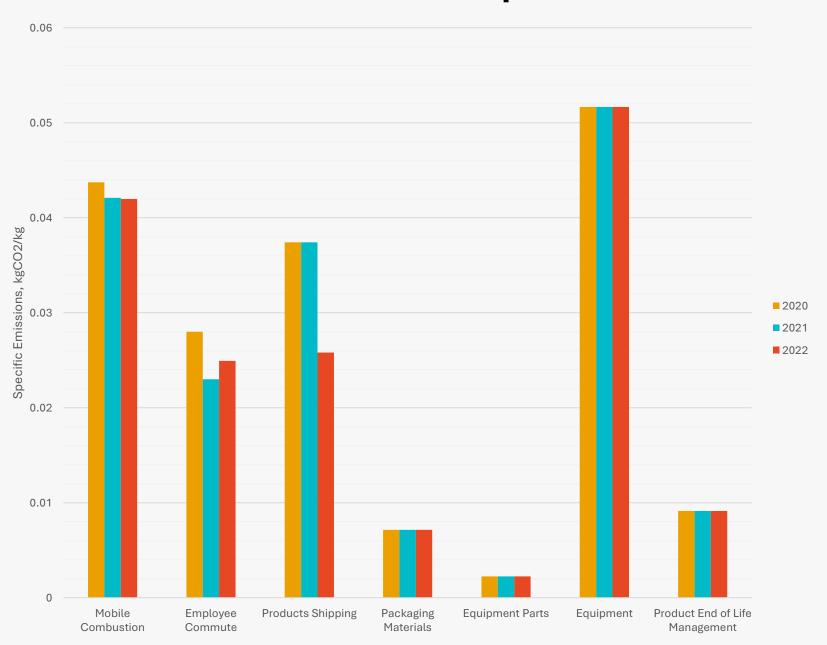
0.66 kgCO<sub>2eq</sub>/kg

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

### Results overview

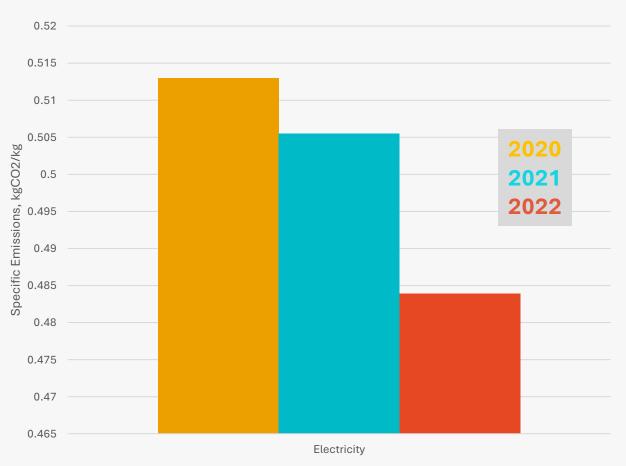


### Comparison



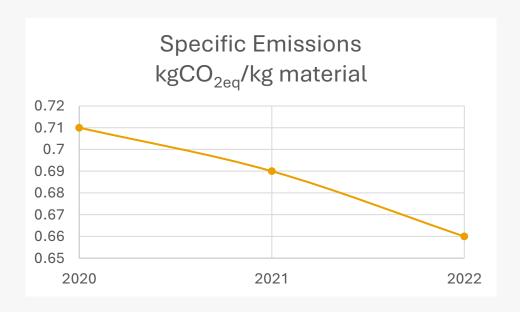
### Comparison



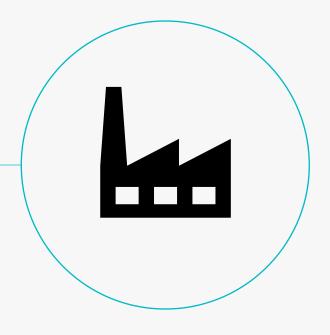


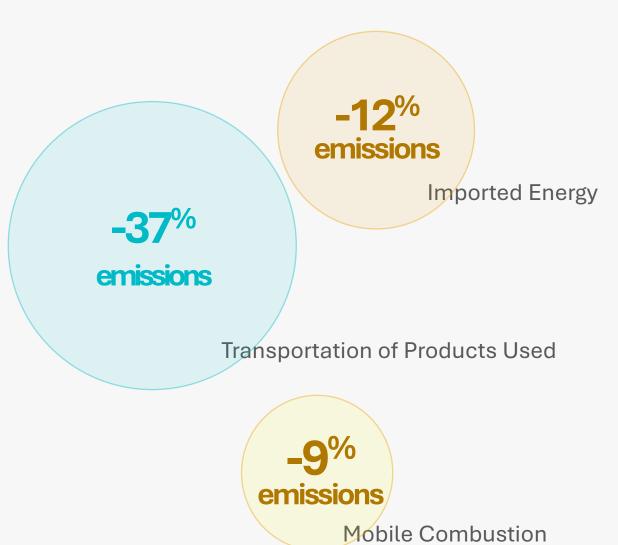
### **Specific Emissions**

2020: 0.71 kg $CO_{2eq}$ /kg material 2021: 0.69 kg $CO_{2eq}$ /kg material 2022: 0.66 kg $CO_{2eq}$ /kg material



# **Quantify our GHG Emissions**





-4%

Specific Energy

# 0,574ton CO<sub>2eq</sub>

Absorbed from trees

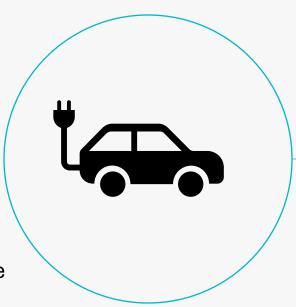


Improved quantification of GHG Emissions.

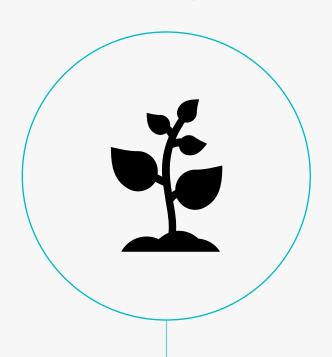
Initiation and funding of the procedure through CYS, for the quantification of  $CO_2$  sequestration from trees.

Upkeep of 82 trees planted in 2020. 295 new trees planted.

# Implement GHG Emissions reduction initiatives



# Invest in Carbon removal schemes



In cooperation with the Ministry of Agriculture and the Cyprus Standards Organization, the drafting of the guideline for the methodology of CO<sub>2</sub> sequestration from trees has been initiated.

The sequestrated carbon from the plantations **has grown by 5 times** between 2021 and 2022.





Acquired the ISO 14064 certificate.

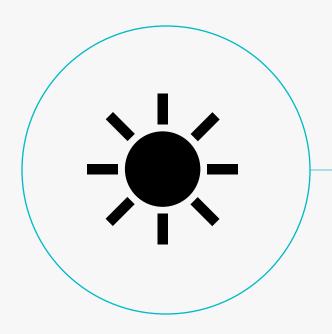
20.6%

of the factory electricity produced by PV

18%

emissions "savings"

### Investing in Renewable Energy





### CYS national guideline for the calculation of CO<sub>2</sub> sequestration per tree

Work with Ministry of Agriculture officials for the development of the CO<sub>2</sub> sequestration per tree methodology.

#### **Invest in electric cars**

Gradual fade out of cars and forklifts with electric type vehicles.

# Environmental Product Declarations (EPD)

Prepare the Environmental Product
Declarations for core products

#### Plant 1000 trees

Absorption of CO2 from trees planted and maintained

### All outdoor lighting with autonomous PV panels

Replace all outdoor lighting with autonomous LED lamps with PV panels.

