



## CACLULATIONS OF EMISSIONS OF GREEN ENERGY GROUP

### Introduction

The report refers to the "Implementation Plan for the Low Carbon Transition" of the esteemed Green Energy Group organization. This comprehensive plan signifies our commitment to collaboratively navigate the intricacies of sustainable business practices as provided by the REBUILT Consortium, aligning with Green Energy Goup's vision for a low-carbon future.

Embedded within this document is a detailed report encompassing emissions calculations for various sectors, meticulously compiled based on the data graciously provided by the Green Energy Group. This report not only serves as a quantitative analysis but also as a cornerstone for the strategic framework that will guide Green Energy Group towards reduced carbon footprints and enhanced environmental resilience.

As CSI unveils this comprehensive report, we aim to provide Green Energy Group with a holistic understanding of their current carbon landscape, laying the foundation for a purposeful and effective low-carbon transition.

In the following section, the emissions calculations are provided for the Green Energy Group.

The Green Energy Group organization has 55 employees.

**Company's Name:** Green Energy Group.

**Company's Website:** <https://greenenergy.com.cy/>

## Calculations

### Electricity:

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27500 kWh

Total annual emissions: 19.8 t CO<sub>2</sub>e

About 10200 Spend

### Flights:

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**10000 euro annual**

### VEHICLES

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The company employs its cars for client visits, and the fuel consumption fluctuates from year to year. In 2023, the company nearly doubled the amount of fuel consumed during these activities due to the elevated fuel prices and more clients added to the company.

18000 ltr consumed (Petrol Cars)

26000 euro

6000 ltrs consumed (Diesel Cars)

5.800 euro

31800 total

### Plastic Package

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Green Energy Group does not use any plastic package during the companies activities. 20% of employees use plastic package during their working for their lunch.

2640 Annual Plastic Packages

Furthermore, they use 70 recycle bags per year

**Total annual emissions:** 8.184tCO<sub>2</sub>

### Food and Beverages

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Food delivery 20% of employees (11 people)

**Monthly** = (((11\*Average 6 euro)\* 5)\*4)= 1320

**Annual amount paid**=15840 euro

**TOTAL ANNUAL EMISSIONS:** 9.16 metric tons CO<sub>2</sub>e: 15840 per year of Food and drink products  
for a medium meat eater

### Paper Products

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They utilize paper for printing when necessary (10 pages per week) but prioritize digital formats whenever possible. Additionally, paper is occasionally employed during participant activities for mind-mapping purposes. Furthermore, note-pads are commonly used by all team members.

**Annual monthly used of paper products:** 150 packages

**Annual amount paid**= 660

**Total annual emissions:** 0.38 metric tons: €660 per year of Paper based products

### Consumables

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The company didn't provide data

### Information Communication Services

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**They use WhatsApp and Skype for messaging, engage people through our social media( Facebook, Instagram, and LinkedIn), maintain their website once a year**

## Hotel, Accommodation and Restaurants

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The company spends 55000 Euro

11.02 metric tons: €55000 per year of Hotels, restaurants, and pubs etc.

## Waste Management and Emissions

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The company recycles paper, batteries. Unfortunately in Cyprus we don't have the ability to weight the amount of waste throw away by each company.

For the amount of 300 euro tax per year the CO<sub>2</sub>e emissions are :

**Total Annual Emissions:** 0.15tCO<sub>2</sub>

## Water:

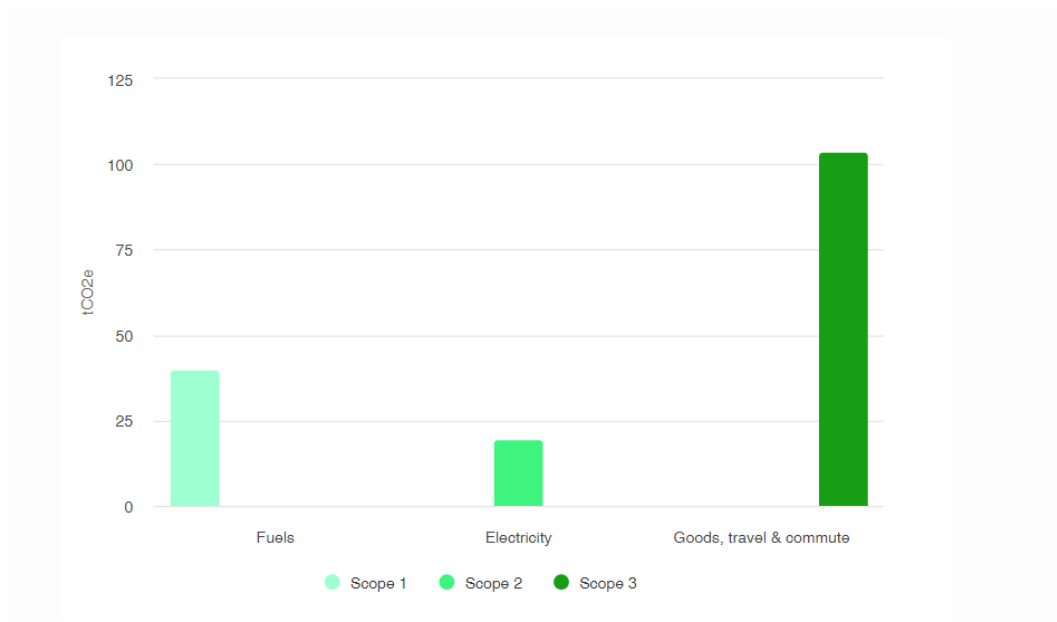
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**Water consumption : 38 m<sup>3</sup> every four months**

**Thus the total annual consumption is :**

- **Total annual emissions : 0.01748 tons CO<sub>2</sub>e.**

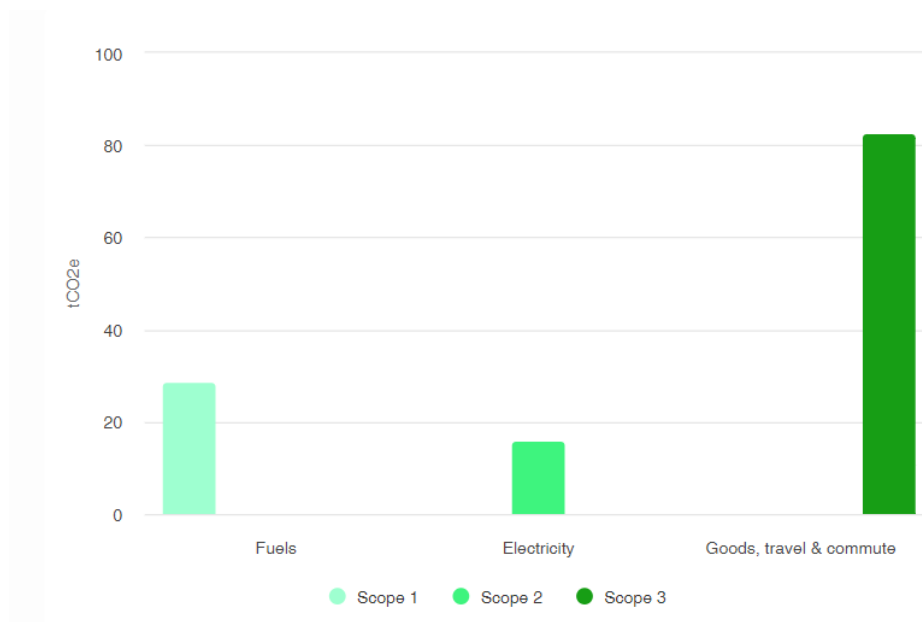
**Total emission Calculations (Scope 1, Scope 2, Scope 3):**



Scope

1: 38.6 tons CO2e, Scope 2 19.8 tons CO2e, Scope 3: 103 tons CO2e.

However, the total emissions after the re-engineering process for Scope 1, Scope 2, and Scope 3 were as follows:



Scope 1 : 28.6 tons CO2e , Scope 2: 16.1 tons CO2e , Scope 3 82.8 CO2e

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