



Greenhouse Gas Emissions

REPORT

Reporting period: 2024
Issued: 31.05.2025

MODULO is proud to share its 2024 Greenhouse Gas Emissions Report, reinforcing its dedication to sustainable production and transparent environmental reporting.

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This report has been prepared in line with the GHG Protocol standards, covering Scope 1 and Scope 2 emissions for the 2024 reporting year. It reflects MODULO’s ongoing efforts to measure, manage, and reduce its carbon footprint through clear targets and responsible practices.

The report will refer in a consolidated manner, to both MODULO DECORATIVE SOLUTIONS and its subsidiary, MODULO STONE.



1. GENERAL DESCRIPTION OF THE ORGANIZATION GOALS

1.1. Description of Organization

MODULO DECORATIVE SOLUTIONS (MODULO) combines long-standing expertise with efficient production and a focus on sustainable development. Based in Turda since 2004 and building on over four decades of French stone veneer legacy, the company works to maintain high standards in quality, eco-design, and user-friendly installation systems.

MODULO is a European leader in the production and distribution of stone veneers, bricks, and 3D wall panels. Seeking to always improve and adapt to the market's demands, our team is constantly focused on creating new products. With ISO-backed operations, local sourcing, and a clear sustainability agenda, MODULO is ready to meet the demand for attractive and environmentally responsible building finishes.

Since the beginning, MODULO's goal has been to offer practical, flexible, and sustainable solutions that adapt to users' lifestyles. Our approach emphasizes modularity and circular design, helping to extend product lifespans and reduce environmental impact across the value chain.

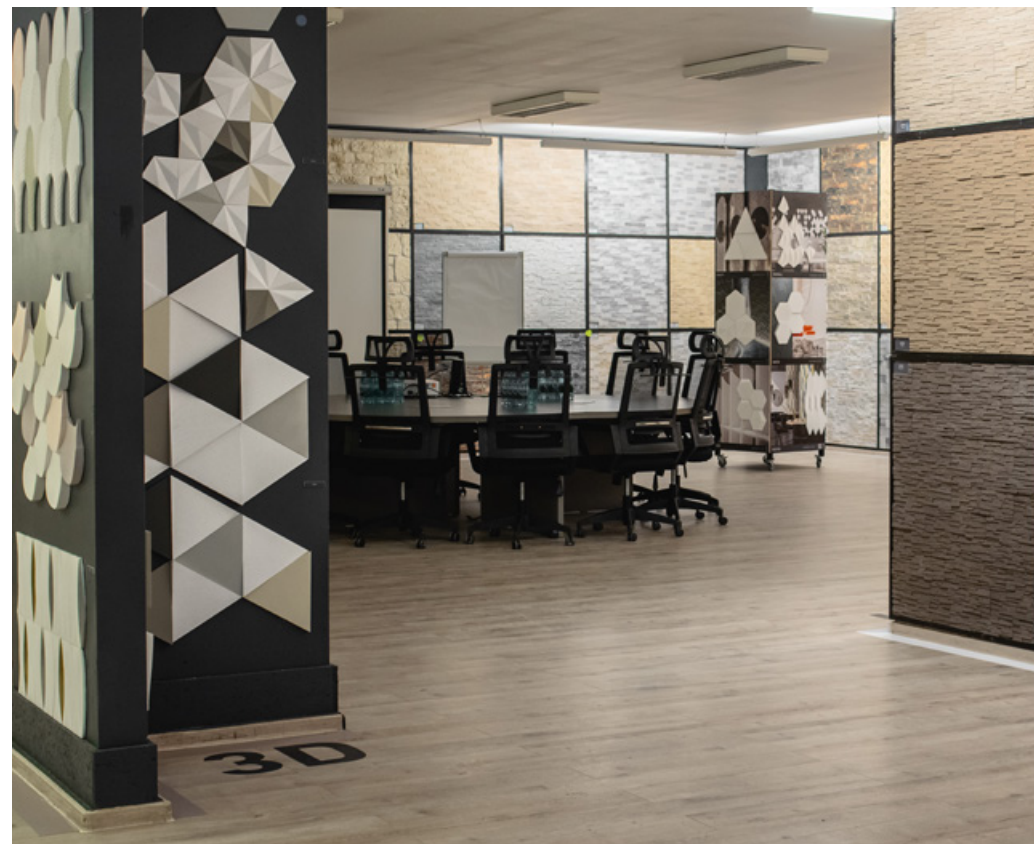
1.2. Sustainability Commitments and Technical Approach

ECO-Design Principles: MODULO aims to develop products in line with eco-design guidelines. The design process prioritizes reusability and material efficiency.

Local and Low-Carbon Manufacturing: Reflects commitments to eco-friendly materials, reduced transport emissions, and environmental compliance.

Energy and Waste Management: The company's production facility is powered in part by renewable energy and has achieved reduction of energy consumption through constant process optimization and LED lighting retrofits. The company recovers or recycles 95% of its generated waste.

EPD Certified: MODULO holds an EPD certification, which provides verifiable results of its environmental performance throughout its life cycle.



2. INVENTORY OBJECTIVES

2.1. Responsible Persons

MODULO is responsible for the provision of the GHG statement and the supporting information. Report is prepared by Adrian Bancos, Product Manager (PM). ENVIROCERT was contracted to provide consultancy for reporting.

2.2. Purpose of the Report and Intended Users

Target audiences of the study are the company's management and employees, customers, and any parties which have an interest in the company's GHG emissions. The aim of the study is to provide GHG emission information for both business-to-consumer and business-to-business communication. The aim of this report is monitoring and reporting the greenhouse gas emissions and activities to reduce these emissions.

2.3. Dissemination

The report is available for the company's internal use as well as for third parties on request.

2.4. Reporting Period

Data for calculation was collected by MODULO and covers the 12 month period of 2024.

2.5. Data and Information Included in the Report

Scope 1 and Scope 2 emissions are included in this report according to the GHG protocol "A Corporate Accounting and Reporting Standard".

Scope 3 is not calculated.

The data collected is based on the analysis of invoices.

The activity data is multiplied by the appropriate emission factor to calculate GHG emissions for the organization.

The electricity emission factors are based on Tier 1 emission factors assuming an average or typical technology and the general characteristics of electricity production in the country.

2.6. Statement About Verification

MODULO is responsible for the data collection and fair presentation of the GHG statement.

No external verification has been conducted.

2.7. Contact Person

Adrian Bancos, Product Manager (PM).

Email: adrian.bancos@modulo.fr





2.8. Facilities Included in the Inventory

MODULO DECORATIVE SOLUTIONS has the following manufacturing and office site which is covered by this report:

- **Headquarter:** 29, 22 Decembrie 1989 st., 401113 Turda, Cluj County, Romania.
- **Production facilities:** 29, 22 Decembrie 1989 st., 401113 Turda, Cluj County, Romania.

MODULO STONE, part of MODULO group, has the office location which is covered by this report:

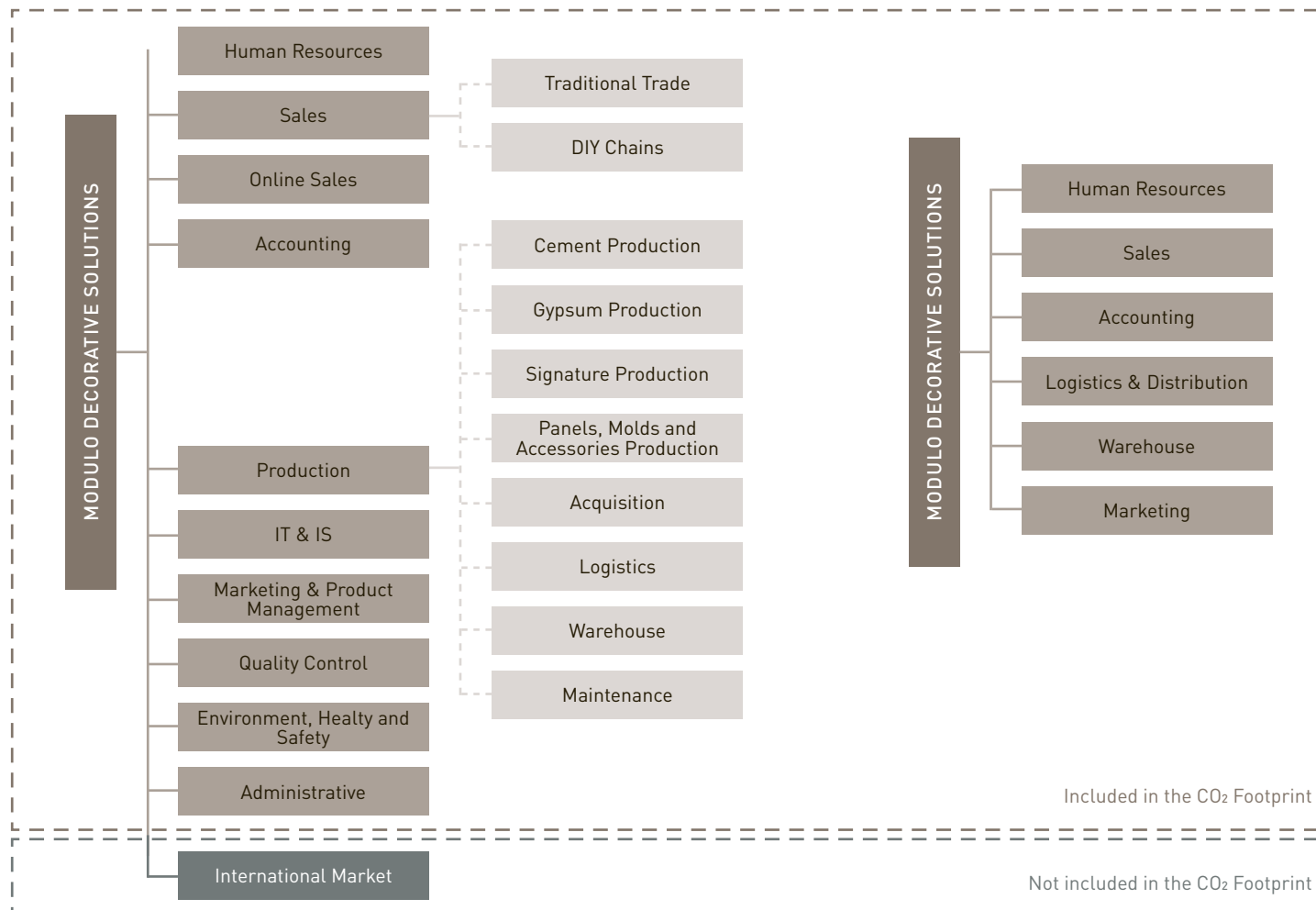
- **Headquarter:** 29, 22 Decembrie 1989 st., 401113 Turda, Cluj County, Romania.

3. REPORTING BOUNDARIES

The Scope 1 and Scope 2 emissions are included in this report according to the GHG protocol: A Corporate Accounting and Reporting Standard.

3.1. Organizational Boundaries

The MODULO DECORATIVE SOLUTIONS company with the production plant and headquarters in Turda, Romania and MODULO STONE with the headquarters in Turda, Romania accounts for all GHG emissions generated from facilities over which the company has operational control.



1. QUANTIFIED GHG INVENTORY OF EMISSIONS AND REMOVALS

Reporting company: MODULO DECORATIVE SOLUTIONS SRL
Person responsible for the report: Adrian Bancos
Reporting period covered: from 01.01.2024 to 31.12.2024.

Scope	Scope Category	Category Name	kgCO ₂ e
Scope 1	1.1.	Stationary Source Fuel Combustion	1,078,356
	1.2.	Mobile Source Fuel Combustion	67,198
	1.3.	Fugitive GHGs	1,016
	1.4.	Fire Supresssions Equipment	-
Scope 1 - Total			1,146,570
Scope 2	2	Electricity /Heat&Steam	215,006
Total			1,361,576

Quantity Produced 2024	571,754
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Process ECO-Efficiency Ratio (kgCO ₂ e / sqm of product)	2.38
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Total uncertainty: 3.9%



Assessed Sources of GHG Emissions

STATIONARY SOURCE FUEL COMBUSTION



Boilers, dryers

MOBILE SOURCE FUEL COMBUSTION



Company vehicles

FUGITIVE GHGS



Refrigeration leaks

FIRE SUPPRESSION EQUIPMENT



*Fire suppression
systems*

ELECTRICITY / HEAT&STEAM



Purchased energy

1. PROCESS ECO-EFFICIENCY RATIO

MODULO has defined a process eco-efficiency ratio, expressed as CO₂ emissions per square meter of product produced. This performance indicator accounts for:

- Production volume variations due to fluctuating market demand.
- A diverse product portfolio that includes different materials.

MODULO DECORATIVE SOLUTIONS has set clear CO₂ Emission Reduction Targets in the previous report:

Achieve a 5% reduction in CO₂ emissions per square meter of manufactured product by 2025, taking 2023 as a base year reference.

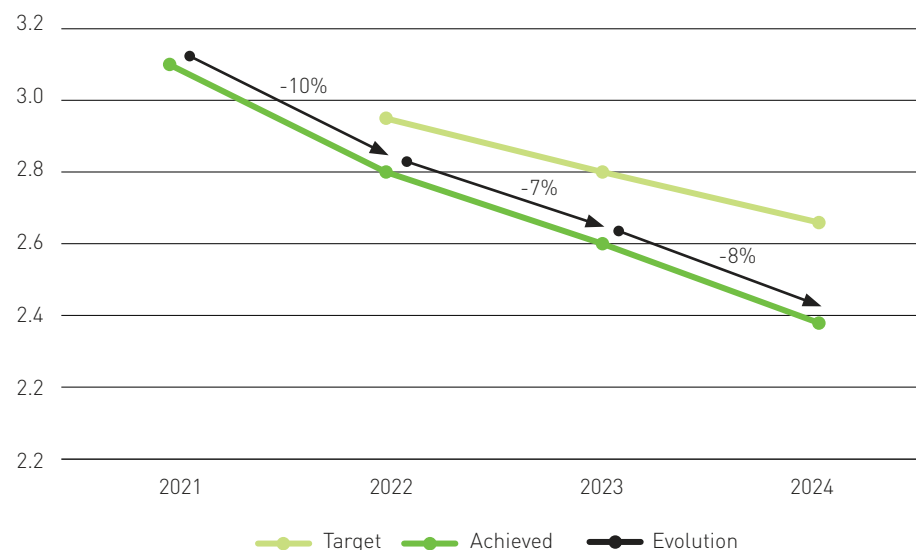
Aim for a 20% reduction in CO₂ emissions per square meter of manufactured product by 2030, taking 2021 as a base year reference.

Starting from 2023, the company is preparing annual reports on its GHG emissions.

The initial target of -5% emissions by 2025 was achieved earlier than anticipated.

Between 2021 and 2024, MODULO achieved a 23% decrease in the process eco-efficiency ratio, consistently delivering better results than the targets set for each year. The results for this period are presented below.

Process ECO-Efficiency Ratio Evolution 2021 - 2024



	2021	2022	2023	2024
Target		2.95	2.80	2.66
Achieved	3.10	2.80	2.60	2.38
Evolution [%]		-10%	-7%	-8%

2. GHG REDUCTION TARGETS

Bearing in mind the current progress in the company's efforts to lower its GHG emissions, new targets have been taken into consideration for 2030:

Aim for a 35% reduction in CO₂ emissions per square meter of manufactured product by 2030. The reference year is 2021.

To further reduce CO₂ emissions and meet the new 2030 target, several scenarios have been analyzed.



3. PLANNED MEASURES AND SCENARIOS FOR REDUCING CO₂ EMISSIONS

3.1. High impact measures

3.1.1. Purchase of a mix of energy with a 30% component of renewable energy:

- The impact is estimated to be a decrease of 4% of CO₂ emissions (2025 vs 2024).

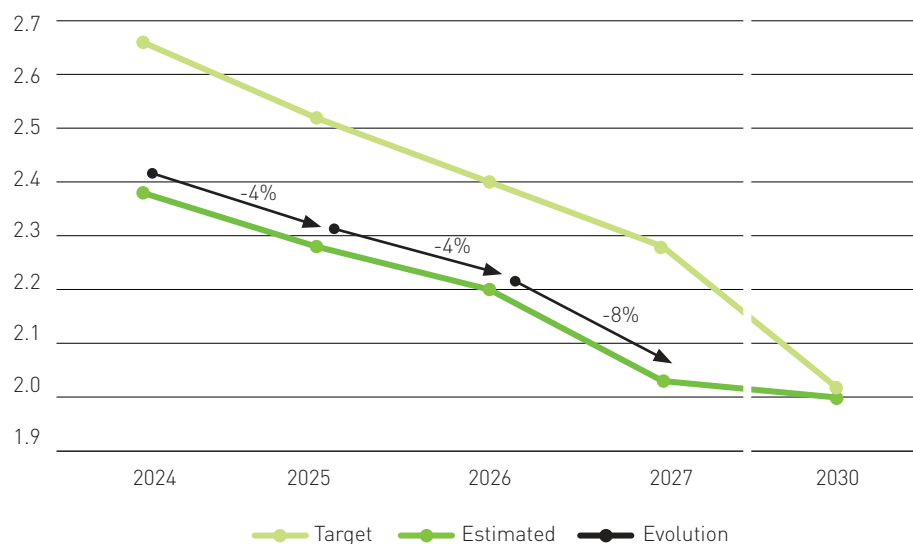
3.1.2. Further increase of the component of renewable energy to 50% starting 2026:

- The impact for 2026, compared to 2025, is estimated to be a further decrease of 4% of CO₂ emissions.

3.1.3. Install photovoltaic panels with full year impact in 2027:

- Invest in photovoltaic panels to generate renewable energy on-site, reducing reliance on non-renewable energy sources.
- Starting 2028, in order to assure conformity to Energy Performance of Buildings Directive 1275:2024, all non-residential buildings with a surface larger than 2000 sqm must include solar energy systems.
- Installation of approximately 5000 sqm of photovoltaic panels could contribute with further 8% decrease of CO₂ emissions, 2027 compared to 2026.

Process ECO-Efficiency Ratio Evolution 2024 - 2030



	2024	2025	2026	2027	2030
Target	2.66	2.52	2.40	2.28	2.02
Estimated	2.38	2.28	2.20	2.03	2.00
Evolution (%)	-8%	-4%	-4%	-8%	

Note:

Estimates for 2028 – 2029 are not included in this projection.

3.2. Medium and low impact measures

3.2.1. Feasibility study to introduce electric power as an alternative:

- Utilize electric power as an alternative energy source for dryers, reducing reliance on fossil fuels and decreasing CO₂ emissions while enhancing energy efficiency.
- Utilize electric power as a replacement for natural gas for heating of administrative areas.

3.2.2. Switch Off Unused Equipment:

- Promote the practice of turning off machinery, computers, and other equipment when not in use to conserve energy.

3.2.3. Unplug Devices:

- Encourage employees to unplug chargers, devices, and appliances when they are not in use to eliminate standby power consumption.

3.2.4. Insulate Dryers:

- Enhance dryers' insulation to improve energy efficiency and reduce heat loss, thereby lowering overall energy consumption.

3.2.5. Develop Eco-Friendly Products:


- Innovate products by using more sustainable materials (e.g. recycled content, low-carbon cement alternatives or less cement, gypsum based composite materials with low CO₂ emissions but improved characteristics) or creating products that require less energy and resources to produce.

Note:

Future statements are subject to assumptions, risks, and uncertainties that may change over time.



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in collaboration with **ENVIROCERT** 

Reporting period: 2024

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MODULO
THE FASHION HOUSE FOR WALLS

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