The CO2 Compensation Process & Sustainable Products
By MAPEI

Corporate Environmental Sustainability – March 2023
The CO2 Compensation Process & Sustainable Products

Speakers

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Middle East & Africa

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Specification Manager
Middle East & Africa
Mapei figures

3.3
Billion Euros consolidated turnover 2021

More than
6,000
New formulations by Mapei Group every year

New formulations by Mapei Group every year

32
Research centres in 20 countries

More than
32
Research centres in 20 countries

100
Subsidiaries in 57 different countries

More than
100
Subsidiaries in 57 different countries

More than
11,000
Employees

More than
86
Plants in 5 continents, in 35 different countries

More than
163,000
Professionals from the sector involved in Mapei training courses

More than
4,000,000
Tons of CO₂ saved during cement production thanks to Mapei grinding additives

More than
6,000
Products for the building industry of the Mapei Group

More than
27,900
Tons of products shipped every day

More than
100,000
Tons of CO₂ offset

More than
66,000
Clients around the world

More than
11,000
Employees

More than
86
Plants in 5 continents, in 35 different countries

More than
163,000
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More than
100,000
Tons of CO₂ offset

More than
66,000
Clients around the world
The world map becomes increasingly blue.

86 Plants
in 35 Countries

100 Subsidiaries
in 57 Countries
24 Product lines

An incomparable range offered for every site around the world.

1. Products for ceramics and stone materials
2. Complementary products for installation work
3. Products for cleaning, maintaining and protecting surfaces
4. Products for resilient, LVT, textile materials
5. Products for sports flooring
6. Products for wooden flooring
7. Products for cementitious and resin flooring
8. Products for acoustic insulation
9. Products for building
10. Admixtures for concrete
11. Architectural stone paving
12. Architectural exposed aggregate concrete surfaces
13. Products for CFS industrial flooring
14. Products for structural strengthening
15. Products for masonry restoration
16. Products for thermal insulation
17. Wall protective and decorative coatings
18. Products for waterproofing
19. Products for waterproofing
20. Products for underground constructions UTT
21. Elastic sealants and adhesives
22. Products for the marine industry
23. Cement additives C-ADD
24. Asphalt pavements
CORPORATE ENVIRONMENTAL SUSTAINABILITY TEAM

Mikaela Decio  
Team Leader

Marco Mazzetti

Laura Carettoni

Diego Pala

Simone Re

Federica Carollo
THE SUSTAINABILITY REPORT
2022: GLOBAL
SUSTAINABILITY REPORT
Materiality analysis and SDGs
GLOBAL CO$_2$ EMISSIONS BY SECTOR

- 40% of energy
- 50% of raw materials
- 21% of water

Source: 2018 Global ABC Report; IEA
SUSTAINABLE PRODUCTS

QUALITY = DURABILITY

ENVIRONMENTAL IMPACTS REDUCTION

CO₂ OFFSETTING
LCA: LIFE CYCLE ASSESSMENT
ENVIRONMENTAL IMPACT CATEGORIES
CARBON FOOTPRINT = GLOBAL WARMING POTENTIAL
[kg CO₂-eq]
REDUCING CO₂ EMISSIONS - ORGANIZATION

- ENERGY
- WASTE
- CIRCULARITY
REDUCING CO$_2$ EMISSIONS - PRODUCT

- FORMULATION
- PRODUCTION
- SUPPLY CHAIN
BUILDING MORTARS: GWP
ECO-DESIGN OF THE PRODUCTS

ALTERNATIVE MATERIALS

- Recycled
- Cements
- Polymers
- Packaging
ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 for

MAPE-ANTIQUE DEHUMIDIFYING LINE

Mape-Antique Rinzaffo
Mape-Antique MC
Mape-Antique MC Macchina
Mape-Antique CC
Mape-Antique NHL Eco Rinzaffo
Mape-Antique NHL Eco Risana

An EPD should provide current information and may be updated if conditions change. The stated validity is, therefore, subject to the continued registration and publication at www.environlabel.com.

ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804:2012+A2:2019/AC:2021 for

ULTRACOLOR PLUS dark base
Building a sustainable future together
FROM NOW YOU CAN PLAY A PART

Now you can also choose to live with zero impact* on climate change. Choose sustainability for all your projects, with Mapei.

*For Mapei, “zero impact on climate change” means that CO₂ emissions measured throughout the life cycle of products from the Zero line in 2023 using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of certified carbon credits in support of renewable energy and forestry protection projects. A commitment to the planet, to people and to biodiversity. For more details on how emissions are calculated and on climate mitigation projects financed through certified carbon credits, click here.
CARBON CREDIT: THE PROCESS

ANNUAL PRODUCTION (TON) × Kg of CO₂ per kg of finished product = TONS of CO₂ to purchase for the offset

Kg of CO₂ per kg of finished product × GWP =
Offsets are not a replacement for taking action to reduce our carbon footprint.

On the contrary, they are the last option to offset emissions we cannot currently avoid.

R&D IMPROVES FORMULAS FOR DURABLE AND QUALITY PRODUCTS WITH LOW ENVIRONMENTAL IMPACT.
FROM 10 YEARS CO₂ OFFSETTING OF KERAFLEX MAXI S1 ZERO ITALIAN PRODUCTION
OFFSETTING OF RESIDUAL CO₂ EMISSIONS HYDROPOWER (VIETNAM) AND REFORESTATION (INDONESIA) KERAFLEX MAXI S1 ZERO AND ULTRACOLOR PLUS WORLDWIDE
ZERO LINE: MORTARS FOR RESTORATION
DAKRTIH HYDROPOWER PROJECT
VIETNAM, RENEWABLE ENERGY PROJECT

The project involves the construction and operation of a hydroelectric power plant in the DakrLap district of DakNong province in the Central Highlands of Vietnam. The dam will produce over 630,000 MWh per year with an installed capacity of 144 MW.

Using water from the Dong Nai River and other rivers and streams in the region, DakRTih will provide electricity and water for thousands of hectares of local crops. In addition to the environmental benefits, the project’s activities have created new job opportunities for the local population.

Thanks to the technology, the project contributes to national energy and ecological security and reduces air pollution in the area, making a concrete contribution to climate change mitigation.

Emissions reduction: +550,000 tCO₂/year
Annual production: +636,900 MWh
New job opportunities: +1,800
Standard: Clean Development Mechanism (CDM)
Before the project was established, the biodiversity-rich forests of Rimba Raya were planned by the local government to be converted into four palm oil estates. Besides preserving the diversity of the ecosystem and the habitat of endangered species such as the Bornean orangutan, the project reduces emissions by avoiding the planned deforestation of more than 47,000 hectares of forest for palm oil production.

The project not only sequesters carbon and protects habitat for local wildlife, but also promotes local sustainable development, particularly in terms of environmental education and economic capacity building.

**Emissions reduction:** +3,500,000 tCO₂/year

**Biodiversity protection:** +90,000 ha of forest

**New job opportunities:** +70

**Standard:** Verified Carbon Standard + CCBS
• MEASURING ENVIRONMENTAL IMPACTS BY LCA

• THIRD-PARTY CERTIFICATION

• ROLE R&D in REDUCING CO₂ EMISSIONS

• CO₂ OFFSET
Thank you!
Any questions?

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