

# SUSTAINABILITY HIGHLIGHTS

# 2023



versalis

# Sustainability for Versalis

Versalis is committed in transforming into an even more specialised and more sustainable company, improving existing technologies and developing new ones to reduce direct process emissions through energy efficiency. The aim is to provide products that meet the needs and expectations of customers while operating in a way that helps respect the environment, workers and the communities that host our plants.

The transition towards decarbonisation by 2050 assigns a significant responsibility to the chemical industry, also accentuated by regulatory evolution, due to its high energy-intensive activities. Decarbonization is a challenge for the industry, which is considered hard-to-abate, also due to the high capital investment required. Versalis, together with the entire European chemical industry, supports the EU's ambition to achieve Carbon neutrality by 2050. However, a coherent and supportive regulatory framework is essential to ensure the necessary investments to disseminate and expand existing technologies.

In this context Versalis' strategy is based on the development of complementary products and solutions that work in a synergistic manner. In this regard circular economy, chemistry from renewable materials, renewable energy and lower-emission technologies are the main levers supporting Versalis' pathway.

This document offers a brief overview of Versalis' increased sustainability performance in order to support the development into a more sustainable and diversified chemical company, capable of generating value for all stakeholders, integrating the principles of circularity and sustainability in managing processes and products. A set of the most relevant KPIs and data have been selected in order to provide a real and reliable representation of Versalis' increased sustainability profile, including the environmental impact of activities, the provision of a safe working environment, the commitment to continuous improvement and voluntary programs. The document also explores the company's goals for the future, demonstrating its commitment to achieve the goal of carbon neutrality by 2050.

For additional information about Versalis' approach to sustainability, see **Versalis for 2023**, the annual sustainability report prepared with the aim to describe the Company's approach and commitments to the development, in line with Eni's strategy and values, of more and more sustainable, decarbonised and circular models.



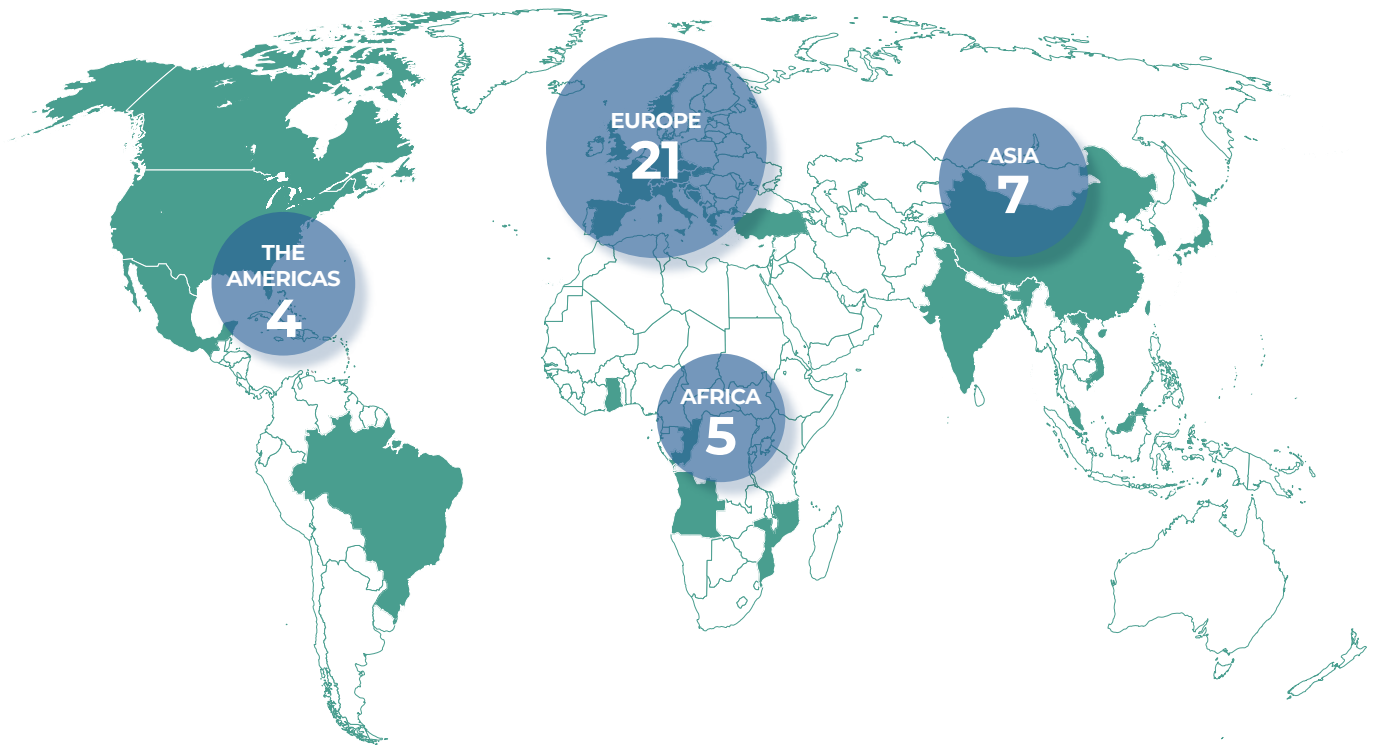
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INFORMATION



The data contained in this document, unless otherwise specified, refer to Versalis S.p.A. and its subsidiaries on a line-by-line basis.

Novamont is included only for data on employment and number of patents.

# Versalis in the world



Versalis is Eni's chemical company operating at a national and international level in the basic and INTERMEDIATE chemicals, plastic, rubber and biochemistry sectors and also engaged in developing POLYMER-recycling technology. As part of Eni's broader commitment to energy transition, the transformation of Versalis into a more sustainable and specialised chemical company, capable of generating value for all stakeholders and contributing to achieve Carbon neutrality by 2050, is underway. During 2023, Versalis acquired the entire share capital of Novamont, further increasing Versalis' ability to innovate in the circular bioeconomy field.


Versalis is characterised by a global strategy and a product portfolio that is adaptable to changing markets. The company focuses on Research and Development (R&D) and Licensing to expand its technological and commercial influence worldwide.

Its expertise in the chemical industry, coupled with advanced proprietary technologies, an extensive distribution network and effective after-sales support, enables Versalis to respond promptly to customer needs and maintain a competitive position in the market. Leveraging its know-how, Versalis develops existing technologies, new technology platforms and cutting-edge materials with a focus on sustainability, decarbonisation and circularity of the entire value chain. Through its projects, the company promotes solutions for a more sustainable supply chain in the chemical industry. Versalis firmly believes in the development of the circular economy and chemistry from renewable sources as drivers for the path towards decarbonization to 2050 and competitiveness.

The aim is to accelerate the transition towards an increasingly decarbonised and circular global economy, while helping to reduce the dispersion of plastic waste in the environment and marine littering.

 **7,771** employees  
(Novamont included)

 **744** products

 **26** production sites  
(of which 1 is a joint venture)

 **7** Versalis research centres

**2** Finproject R&D labs

**3** Novamont Technology hubs

# Carbon Neutrality By 2050

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## TOWARDS NET ZERO BY 2050 SCOPE 1+2+3

Along the decarbonisation pathway, our intermediate GHG emission reduction targets (compared to the 2018 base year) for Scope 1 and 2 are:

**-15%** Scope 1+2  
by 2025 vs. 2018

**-30%** Scope 1+2  
by 2035 vs. 2018

## EMISSIONS TO AIR

**1.99** Direct GHG emissions - Scope 1  
million tonnes of CO<sub>2</sub>eq.

**1.54** Indirect GHG emissions - Scope 2  
million tonnes of CO<sub>2</sub>eq.

## SCOPE 1+2+3

**8.7** MtCO<sub>2</sub>eq

## CHEMISTRY FROM RENEWABLE RAW MATERIALS

Chemistry from renewable raw materials, refers to those processes and technologies that can turn renewable raw materials into chemical products. In addition to those activities already on-going within the company's technological platforms at Crescentino and Porto Torres sites, in 2023 the acquisition of Novamont was completed. Novamont is a specialised company in the development and production of bio-degradable and compostable plastics and chemicals obtained, wholly or partially, from biomass.



# Operational excellence

## SAFETY

0.64

Total Recordable Injury Rate (TRIR<sup>a</sup>)

a) Total Recordable Injuries/Worked Hour (Employees + Contractors).

0.01

Severity index (days of absence/hours worked) x 1,000)

122,825

Total HSEQ training hours

## CIRCULAR ECONOMY

### Recycling technologies

Versalis is committed in developing mechanical, physical and chemical recycling technologies for plastics and rubber through in-house research and in partnership with associations and consortia.

### Feedstock diversification and resource optimization

Versalis always searches for new opportunities for diversification of feedstock for products and/or packaging, by investigating:

- renewable sources;
- secondary raw materials.

### SC-HOOP An important milestone from 2023

In line with SC-HOOP Project the construction of the demonstration plant started at Mantua Versalis' production site, in 2023. The Versalis SC-HOOP Project indicates the realisation of the chemical recycling pilot plant being constructed in Mantua. The plant is based on Versalis' proprietary pyrolysis technology named Hoop<sup>®</sup> and is designed to valorise the plastic waste that is not currently mechanically recycled.

## VOLUNTARY PROGRAMS AND ASSOCIATIONS

Versalis is an active member of the major national and international circular-economy associations, alliances and platforms.



## LOWER CARBON PRODUCTS

### Versalis Revive®

The first range of polymer-based products containing different percentages of recycled raw material content from **mechanical recycling: polystyrene, polyethylene** and **elastomers** up to **100%**. And now, the portfolio of the Versalis Revive® range can also be used in high-value applications, such as food packaging with A-B-A functional barrier.

### Balance®

The Balance® range of products includes intermediates and polymers obtained also from alternative raw materials, both renewable or recycled. Those products - with identical characteristics and performance of the traditional ones - are ISCC PLUS certified.

### Bio-based (developed by NOVAMONT)

**MATER-BI** is the family of biodegradable and compostable bioplastics obtained wholly or partially from renewable feedstock to provide solutions to specific environmental, economic and social problems.

**MATROL-BI** is the family of readily biodegradable biolubricants obtained wholly or partially from renewable feedstock.

**CELUS-BI** is the family of biodegradable ingredients obtained wholly or partially from renewable raw materials for the cosmetics and personal care industry.

**AGER-BI** is the family of readily biodegradable contact-acting plant protection products based on pelargonic acid from renewable feedstock as a plant growth regulator to control annual and perennial weed growth.

## PRODUCT SUSTAINABILITY

### Life Cycle Assessment (LCA)

73.6%<sup>b</sup>

b) Of the volume of Versalis products placed on the market including Finproject compound.

### Product certifications

The Versalis Revive® PE, PS and EPS range is certified **Second Life Plastics (PSV)**, a certification scheme developed by IPPR (the Institute for the Promotion of Plastics for Recycling) for recycled plastics origin tracking.

**ISCC PLUS** is a certification scheme that allows the production of materials and chemicals with sustainability characteristics using the Mass Balance approach.

Finproject with its XL EXTRALIGHT® brand in its special Sustainable+ formulation has obtained the international **GRS certification**, the standard defined by the Textile Exchange.

## ENVIRONMENT

For Versalis, environmental protection is a primary issue: the continuous development of virtuous practices for waste management, water resources, air quality and biodiversity is fundamental for Versalis to pursue its activities responsibly.

### Water

91 Mm<sup>3</sup>

Fresh water withdrawal

### Waste

<1%

Rate of total waste from production activities, that goes to landfill

89%

Fresh water reuse

74%

Recovery/Recycling rate of total waste from production activities

# Alliances for development

## ECOVADIS CSR RATING

In Versalis, continuous improvement in sustainable practices is measured by a transparent, reliable, global and easy to use CSR rating based on international standards like EcoVadis. In May 2024<sup>c</sup>, Versalis, renewed its sustainability assessment and was awarded the “Gold” level, consolidating the company’s position in the **TOP 5%** of companies assessed by EcoVadis. For more information, please visit [our page](#).



c) Assessment year 2023.

## LOCAL INITIATIVES

Versalis supports the construction of strong relations with the local communities in which it operates, promoting concrete initiatives, understanding the context in which the Company operates and addressing the economic and social challenges of the territory are therefore essential aspects to achieve real shared local development.

For a more in-depth look at what the initiatives were please see the Versalis for 2023.

# Transversal topics

## OPERATIONS CERTIFIED

82%<sup>d</sup>

ISO 14001  
ISO 45001

100%

ISO 9001  
ISO 50001

96%

ISCC PLUS

## REACH PRODUCT COMPLIANCE

100%

## SA8000

Social accountability systems of Versalis S.p.A. comply with the requirements of SA8000



## R&D PATENTS

255

Patent families<sup>e</sup>.  
136 for products and processes from circular and bio sources

d) Finproject's production sites completed in 2023 the certification of their management systems for the Italian sites. This extension to foreign sites will be finalised by 2025.

e) Novamont included.



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