

**UNION  
FOAM**

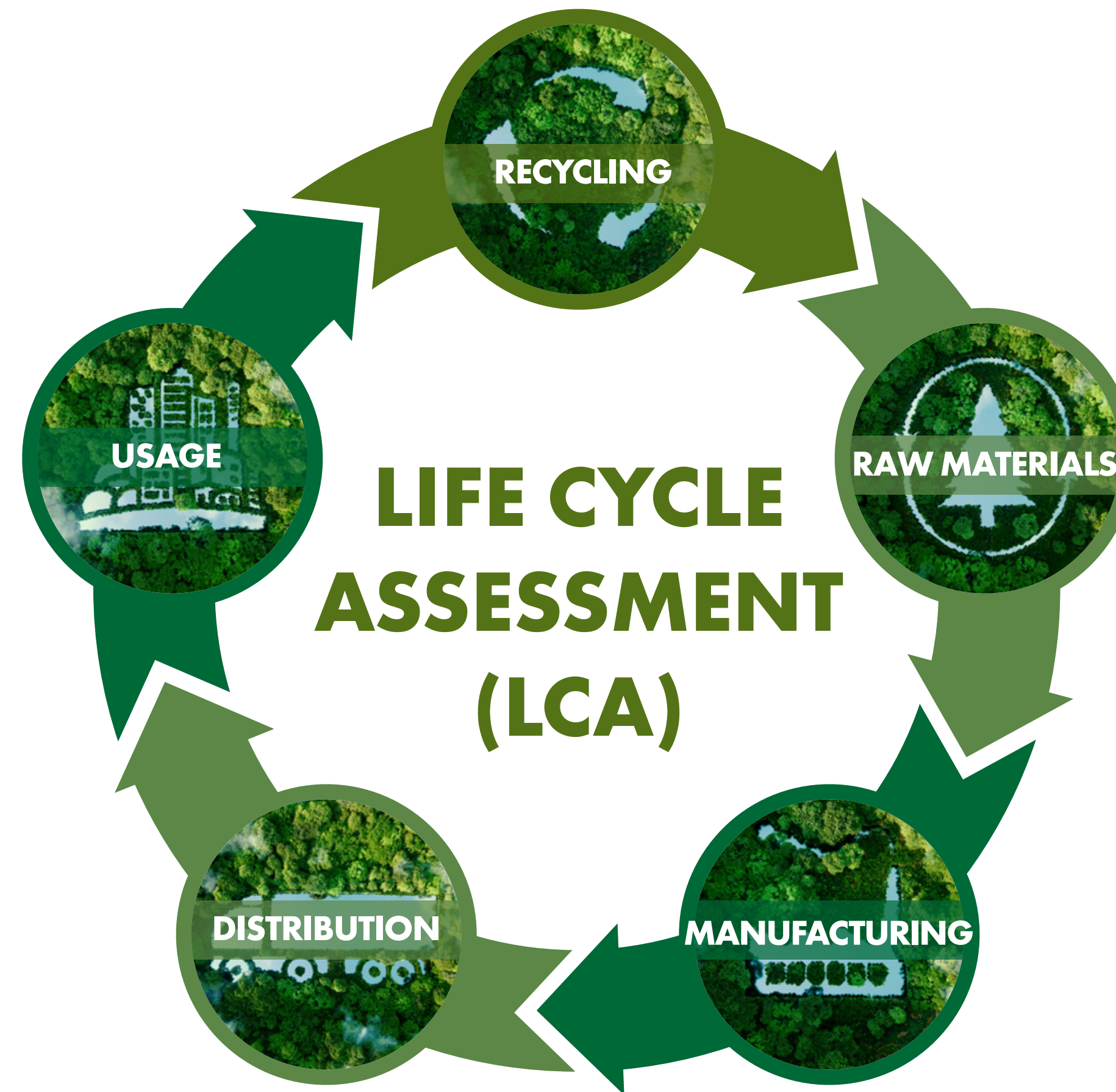
INSULATION MATERIALS.  
OUR WORLD.  
FOR A BETTER WORLD.

# EPD & LCA



# EPD & LCA

We have subjected our EUROBATEX and EUROBATEX HF products to a life cycle assessment (LCA).



We offer you sustainable and certified products with an Environmental Product Declaration (EPD).

# UNION FOAM FOR ENVIRONMENTAL SUSTAINABILITY

With a view to sustainable growth, Union Foam considers it essential to properly assess the environmental impacts of its products throughout their life cycle to be able to develop more ecological building solutions, also recognising environmental sustainability as a growing competitive factor.

**Reducing energy consumption and using materials with a reduced environmental impact** means safeguarding people's well-being and contributing to the balance of the external environment.



Our commitment to environmental issues is real: we manage our production process carefully and with a sustainable logic, which **minimizes environmental impacts** and reduces the use of resources and raw materials.

Our mission is to present the market with **high-performance, environmentally attentive and long-lasting products.**

**“Our biggest challenge in this new century is to take an idea that seems abstract, sustainable development, and turn it into a reality for all the world's people.”**

*Kofi Annan*

# EPD CERTIFICATION

## EUROBATEX AND EUROBATEX HF PRODUCTS ARE EPD CERTIFIED

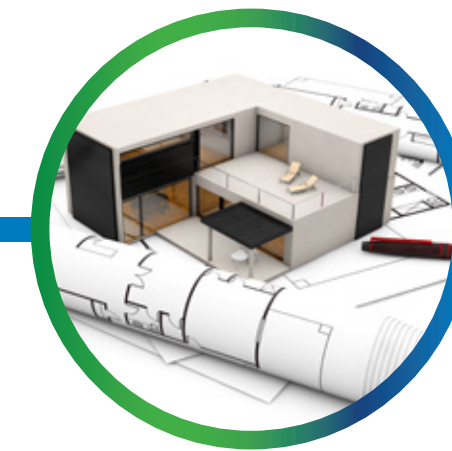
Union Foam has chosen to certify its products through the globally recognised Italian Program Operator EPDItaly, with the following advantages:



**INTERNATIONAL RECOGNITION  
AND VISIBILITY OF PRODUCTS  
ENVIRONMENTAL PERFORMANCE**



**OPERATOR  
RECOGNISED BY  
ACCREDIA**



**REFERENCE FOR  
CONTRACTING AUTHORITIES  
AND DESIGNERS**



# THE CERTIFICATION

The **Environmental Product Declaration (EPD)** is a document, recognised by EU environmental policies (GPP), which objectively communicates transparent and comparable information about the environmental impacts of a product or a service, in accordance with the **international standard ISO 14025**.

It is a public document, available to everyone, which highlights Union Foam's commitment to the **transparency of their data** about the environmental performances of the products and their production processes.

It is based on an independently verified Life Cycle Assessment (LCA), on the analysis of the Life Cycle Inventory (LCI) and if necessary, on further environmental information, and it is **managed and published by independent Program Operators** that varies depending on the country of publication, the company market or the product sector.

**An EPD certification makes it possible to draw up and report on the results of your product according to different environmental indicators.**

The aim of this certification is not to compare products in the same category or to achieve environmental targets, but to provide the knowledge needed to:

- reduce product-related environmental impacts
- reduce management and production costs
- enhance the use of environmentally responsible technologies and materials
- define company strategies also in terms of designing alternative and more sustainable products and/or processes
- give more visibility to the company thanks to the product label as a credible communication and marketing tool
- contribute to obtaining environmental certifications

The LCA assessment provides a double benefit:

**Internally:** by mapping the production process, the critical points from an energy and environmental point of view can be identified and optimized.

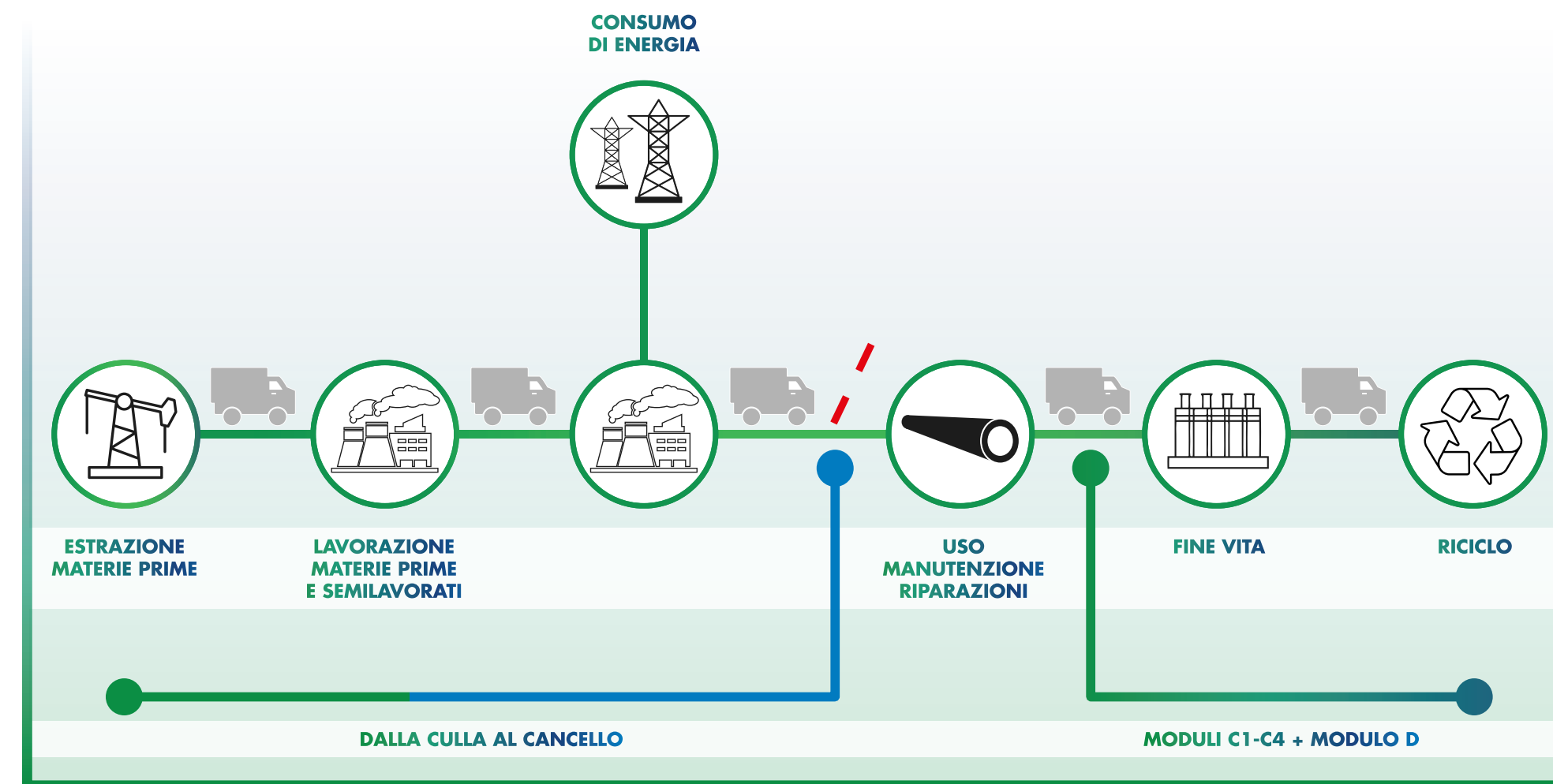
**Externally:** it leads to the achievement of an EPD declaration certified by an independent third party, a certification that highlights and communicates in a clear and transparent way, the company's commitment to the environment.



# EPD RESULTS

## OBJECT OF THE STUDY:

1 m<sup>3</sup> of elastomeric foam material for thermal insulation, including all products in tubes and sheets of different thicknesses.



## SYSTEM BOUNDARIES:

“From cradle to gate” approach with modules C1-C4 and module D, studying all the impacts connected to the supply of the raw materials and the production process, up to the sale of the final product (modules A1-A3), to their end of life (modules C1-C4) and load and benefits beyond the system boundaries (module D).



## ENERGY BALANCE (1 m<sup>3</sup> OF MATERIAL)

Thanks to the installation of the **EUROBATEX** and **EUROBATEX HF** product range, it is possible to save approximately 500.000 MJ/m<sup>3</sup> per year. Considering that the average service life of a product is 25 years, the total saving amounts to about 12.500.000 MJ/m<sup>3</sup>.

We calculated that the **energy impact to produce EUROBATEX and EUROBATEX HF products** is equal to 5,500 MJ/m<sup>3</sup>. This means that the energy impact from the production of 1 m<sup>3</sup> of these products is **zeroed after 96 hours from their installation**.

The energy benefit obtained thanks to the installation of **EUROBATEX** and **EUROBATEX HF** products equals the amount of energy consumed by an average Italian family of 4 people in **6.5 years\***.

## CO<sub>2</sub> EMISSIONS (1 m<sup>3</sup> OF MATERIAL)

Over the course of 1 year, thanks to the installation of **EUROBATEX** and **EUROBATEX HF** products, it is possible to avoid the release of **89,740 kgCO<sub>2</sub>**. This value corresponds to the emissions of a car\*\* that travels around the Earth's circumference 7 times.

## MATERIAL REUSE

Correct waste management during the production process allows for the reuse of approximately **50,000 kg** of insulation material every year to produce sound absorption panels.



ENERGY BALANCE



CO<sub>2</sub> EMISSIONS



MATERIAL REUSE

\* Residential energy consumption in Italy, year 2021 STUDIO EURISPES January 2023.  
\*\* Ecoinvent 3.9.1 database: Transport, passenger car, medium size, diesel, Euro 5.





**INSULATION MATERIALS.  
OUR WORLD.  
FOR A BETTER WORLD**

**VISIT  
OUR  
WEBSITE**



**Union Foam S.p.A.**  
Via dell'Industria, 8  
20882 Bellusco (MB) Italia  
Tel: +39 039 62 08 91  
sales@unionfoam.it  
www.unionfoam.it