

Deliverable “IMPROVEMENT PLANS”

Action B3

Action B3 foresees the identification of improvement actions that will have to be implemented in order to improve the environmental footprint of the products on which the PEF methodology has been tested. The improvement of the environmental footprints will be assessed through the application of the second PEF whose data collection is expected starting from June 2020. The next months of the project will therefore be aimed at identifying these actions, through a process of comparison and evaluation that will involve businesses. In addition to the identification and selection of improvement actions, action B3 includes an enhancement activity of the path carried out by the companies which enables them to enhance the PEF studies by communicating the results to their target audience.

The B3 Action Plan therefore includes the activities to be carried out to pursue this dual objective (improving the environmental footprint and communicating it) and the moments of confrontation with the companies deemed indispensable to develop this path.

A total of **16 companies** from the EFFIGE consortium identified the improvement actions on which to develop their own work planning in view of the second PEF analysis phase envisaged by the project.

The improvement actions identified by the companies were 46: of these, each company participating in the project will eventually have to select at least one more, and on this will have to base the second phase of PEF analysis on the products initially selected during the design phase.

The actions listed below are focused on one or more life cycle phases that have been identified as having the greatest impact and are aimed at reducing the relative environmental impacts (relevant impact categories).

The choice of these improvement actions has revealed a heterogeneity of intervention needs between the various companies: from the theme of reducing energy consumption and virgin raw materials to the need to review the packaging of company products with a view to rationalizing and reducing waste.

Another big demand emerged among the companies of the EFFIGE Consortium is the need to review its water consumption with the aim of significantly reducing the share of resources and water consumption required within its production cycle.

The Foundry sector (ASSOFOND) has identified a total of 9 actions mainly related to the following issues:

- Interventions aimed at reducing energy consumption deriving from melting furnaces and the reduction of raw materials;
- Interventions aimed at the installation of medium-frequency ovens with the aim of eliminating waiting times with a consequent reduction in working days and reduction in material melting times;
- Actions based on a reduction in energy consumption from non-renewable sources;

The Office Furniture sector (FLAE) has identified 15 activities for improvement in this activity worthy of further analysis and analysis:

- Actions aimed at reducing the amount of packaging on the final product;
- Interventions linked to the design phase of individual company articles and to the production cycle phase on the final product;
- Actions linked to the reduction of raw materials;

The EFFIGE project companies belonging to **CAMST**, a partner dedicated to collective catering, have identified a total of 11 improvement actions focused on the following topics:

- Reduction of virgin raw materials and water consumption;
- Fight against the food waste phenomenon through specific activities to educate users of the service aimed at preventing food waste during the consumption phase;
- Actions related to the reduction of energy consumption and the reduction of the electricity component deriving from nuclear sources in favor of an annual energy mix based on an increase in the share of renewable energy sources;

The **Agrifood sector** is represented within the EFFIGE Consortium by 2 partners, **AGRICA** and **CAM**, and has identified a total of 14 different improvement actions on which to assess the merits (AGRICA with 6 actions and CAM with 8 actions in total), all exclusively focused on precise topics:

- ✓ Reduction of energy consumption and raw material withdrawal;
- ✓ Reduction in the use of packaging in the final product and increases in the share of glass and recycled cardboard;

[Digitare qui]

[Digitare qui]

[Digitare qui]

[Digitare qui]

[Digitare qui]

[Digitare qui]