

# LIFE CYCLE ASSESSMENT

***Life cycle thinking is an important basis for PACCOR's sustainability work. Our standard assessment method is the Product and Organization Environmental Footprint (PEF and OEF). PEF and OEF are the recommended methods to measure and communicate the life cycle environmental performance of products and organisations by the European Commission. The two methods are tightly interlinked and have many elements in common.***

Both PEF and OEF are harmonised multicriteria methodologies for the calculation of the overall environmental footprint (including carbon) of products and organisations throughout their life cycle, developed by the European Commission's Joint Research Centre and other European Commission services. They both build on existing approaches and international standards, such as ISO 14040-44, ISO 1400-64, the GHG protocol, the Global Reporting Initiative, the International Reference Life Cycle Data System Handbook, the Ecological Footprint Standards, etc.

The EF impact categories which are considered in all PACCOR studies are:

- climate change
- ozone depletion
- photochemical ozone formation
- ecotoxicity for aquatic fresh water
- human toxicity – cancer and non-cancer effects
- particulate matter/ Respiratory Inorganics
- ionising radiation – human health effects
- acidification
- eutrophication – aquatic and terrestrial
- resource depletion – water
- resource depletion – mineral and fossil
- land transformation.

Normalized and weighted EF results are then summed across impact categories to obtain a single overall impact indicator.

Our assessment work, carried out by both company level and external specialists, is based on a company life cycle assessment database under continuous updating as well as commercially available life cycle inventory databases.

Life cycle assessment has been included in a range of processes for the past couple of years:

Carbon footprint assessment: We measure the carbon footprint at company level using a full cradle-to-grave life cycle assessment (Scope 1, 2 & 3), according to the Greenhouse Gas (GHG) Protocol. This is the basis of our carbon footprint key performance indicator.

Circular solutions: PACCOR's circular solution requires the assessment of all sustainability aspects along the value chain. It encourages the development of more innovative, sustainable products as we continuously aim to reduce the overall environmental footprint of our product value chains. We are also developing environmental product declarations (EPDs) for some products as part of our marketing activity.

Other company processes: Life cycle assessments are integrated into the company's innovation process and the assessment of our major investment processes.

#### ABOUT PACCOR

At PACCOR we create innovative and sustainable packaging solutions for the consumer, food and foodservice market. Our overall goal is to protect what is worth being protected: our planet, our partners' products and our employees. We have high expertise in developing and providing valuable rigid plastic packaging products. Our solutions meet current market trends by constantly thinking outside the box. With more than 3,000 dedicated employees in 15 countries, PACCOR is a global player in the packaging industry. Everything we do contributes to the protection and hygienic safety of valuable products. PACCOR leads the transition towards a circular economy. Because we believe this is the best way to achieve real change in the industry and to create shared value for all our stakeholders and society.

More: <https://www.paccor.com/>