





# Welcome to the GME LCA Platform

Measuring your environmental footprint is a crucial first step in becoming a more sustainable business. It helps you identify areas for environmental impact reduction, make more futureproof choices, test new business opportunities and innovations, and showcase your efforts to produce sustainably. In the future there will be increasing legal and regulatory attention on environmental footprinting.

The GME LCA Platform is specifically designed to support you in preparing for this future. It will benefit your organization and products, customers and, most importantly, the planet.

#### **Overview**

Creating a sustainable future	
The GME LCA Platform	3
The GME LCA Tool: inputs, outputs	4-5
License options and fees	6
Full vs. Demo license	7
Get in touch	8



# Creating a sustainable future together

#### Introducing GME and Blonk

<u>Growing Media Europe</u> (GME) is an international non-profit organization representing the producers of growing media and soil improvers at European level. Growing media, sometimes called potting soils or substrates, are materials other than soil in situ in which plants and mushrooms are grown. **Blonk** is an international expert in agri-food system sustainability and Lifecycle Assessment (LCA) which offers consulting, data and software development services.

In 2019, GME initiated a cooperation with Blonk to set standards and facilitate environmental footprinting for the European growing media industry. Together they developed the **GME LCA Platform**, which includes LCA guidelines and a web-based LCA tool.

The cooperation began with the development of sector-specific LCA Guidelines (<u>GMEF guidelines</u>), aligning with the progress of international initiatives such as the European Commission's PEF (<u>Product Environmental Footprint</u>). This groundwork paved the way for the creation of a specialized LCA Database, which contains environmental footprint data for the most commonly used growing media products. Blonk then used the guidelines and database to develop the user-friendly, web-based <u>GME LCA Tool</u>, empowering companies and growing media stakeholders to easily calculate their environmental footprint.



## The GME LCA Platform

#### Guidelines and the Tool

Life Cycle Assessment (LCA) is a method to evaluate the environmental footprint of a product or process throughout its entire life, from raw material extraction to production, use, and disposal. To ensure that LCA results can be compared, it's essential to follow a standardized methodology.

The Growing Media Environmental Footprint Guidelines (GMEF guidelines) are based on the European Commission's PEF Guidelines (Product Environmental Footprint), providing a set of standard LCA recommendations and best practices that allow you to calculate your environmental footprint in a consistent way. The GMEF guidelines also build upon the following guidelines:

- IPCC Guidance on National Greenhouse Gas Inventories 2006
- 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands
- PAS2050-1:2012
- · PAS2050:2011

The GME LCA Tool practically applies the GMEF Guidelines and allows you to easily calculate the environmental footprint of your products, even if you are not an LCA expert.



## The GME LCA Tool

#### Inputs

The tool allows you to create your own growing media mixes by inputting information on the resources, constituents and additives you use in your production. Within the tool, you can collaborate with your colleagues on growing media mixes and see each other's results.

You have the option to choose between 2 system boundaries as defined in the GMEF Guidelines:

- From cradle to customer for intermediate products, including:
  - · Raw materials production
  - Transport (to factory)
  - Mixing
  - Packaging
  - Transport (to customer)
- 2 From cradle to end-of-life for final products, including:
  - All stages included in the cradle to customer system boundary
  - Use
  - · End-of-life

Use and End-of-Life emissions are, for example, related to peat carbon oxidation or to the nitrogen content of the growing media mix.

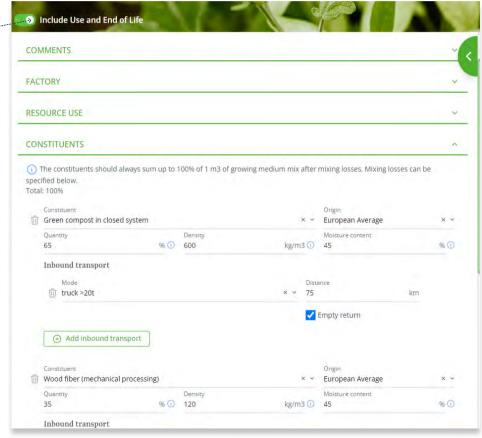


FIGURE 1: AN OVERVIEW OF THE INPUT SECTION

## The GME LCA Tool

#### **Outputs**

Once all details are filled in, you can view your environmental footprint calculation results. The outcomes are presented in diverse interactive formats, offering you valuable insights:

- 1. Per impact category in a contribution analysis (Figure 2)
- 2. In an interactive "star burst" format in which clicking into an impact area will reveal a further breakdown of impacts for that category
- 3. In a Single Score, following the PEF methodology (Figure 3)

The results can also be exported as an Excel file.

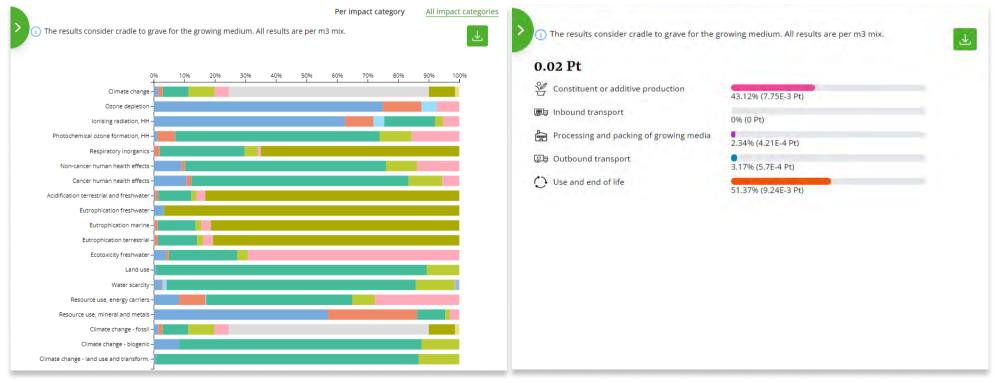


FIGURE 2. RESULTS "ALL IMPACT CATEGORIES"

# License options and fees

There are various licensing options available, depending on your GME membership status and use case.

All licenses (excluding the demo licenses, more information on the next page) have a 2-year minimum commitment and include:

- Two hours (in total) of free support from Blonk's experts
- 15% discount on commercial fees for LCA consultancy by Blonk related to your growing media business

License types	End user count	License length	<b>Fee 1st year</b> (excl. VAT)	<b>Fee 2nd or 3rd year</b> (excl. VAT)
GME Company member license	2 users per license	2 or 3 years	€ 2,200	€1,500
GME Associated member license	2 users per license	2 or 3 years	€4,000	€ 2,200
External company license	2 users per license	2 or 3 years	€4,000	€ 4,000
Demo license - GME Associated members *	2 users per license	Annual	€ 250	N/A
Demo license - External company *	2 users per license	Annual	€500	N/A

 $<sup>\</sup>boldsymbol{\cdot}$  For details about demo and full licenses please see the next page

# Comparison of full and demo licenses

A full license grants access to the full functionality of the GME LCA Platform, while a demo license provides limited functionality.

	Full license	Demo license
License length	2 or 3 years	Annual
Creating a growing medium	<b>⊘</b>	•
Copying a growing medium	<b>⊘</b>	
Calculating environmental impact for a growing medium	•	<b>Ø</b>
Saving a growing medium	•	
Sharing a growing medium with users from your own company	<b>⊘</b>	
Comparing environmental performance of growing media	•	
Exporting results (Excel file)	•	

## Get in touch

In order to access the GME LCA Platform, a license is required. Licenses are managed by Blonk.

To inquire about licenses, or to get more information, please contact us at tools@blonksustainability.nl.

#### **Contact information**

tools@blonksustainability.nl +31 (0) 182 579 970 blonksustainability.nl/tools/gme-lca-platform

