## THE JOURNEY FROM 16 IMPACT CATEGORIES TO ONE SINGLE SCORE

## Impact Categories

16 environmental impact categories describe how humans harm the planet through production and construction.

## Normalization

The impact categories are measured in different units. To be able to compare them to each other, results from each category are converted into a common reference unit. This process is called normalization. The common reference unit in PEF LCA is the environmental impacts of an average global person over one year.

## Weighting

X

Not all impact categories are considered equally important. To get the weighted results, the normalized results are multiplied by their weighting factor\*.

Now, the product's impact on the environmental categories is comparable.



Particulate matter







Resource use fossils

Land use



Acidification

Eutrophication

freshwater





Human toxicity,

cancer

minerals and metals





terrestrial

**Ecotoxicity** 

freshwater

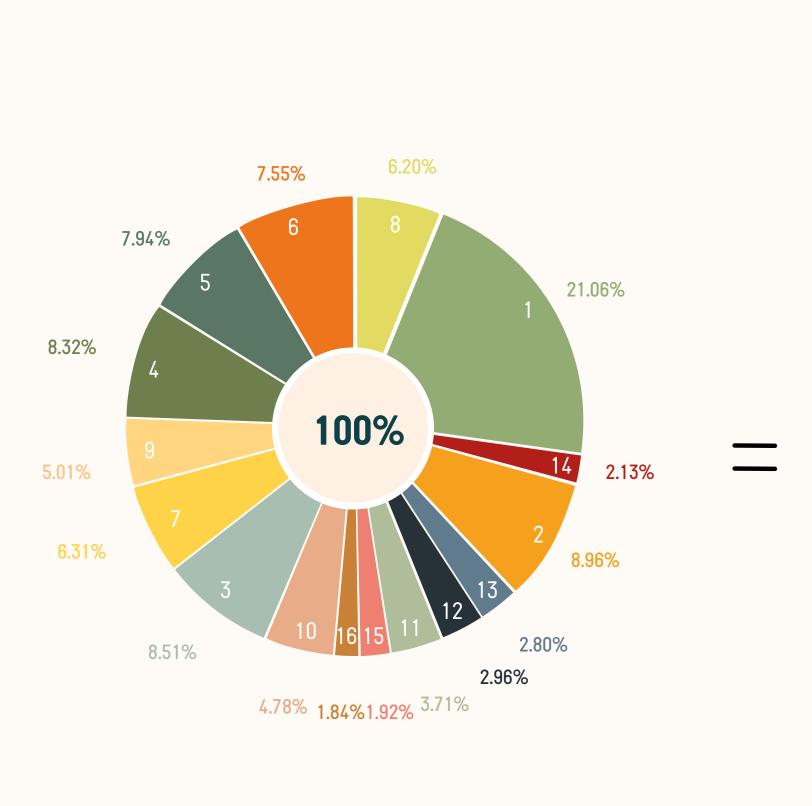


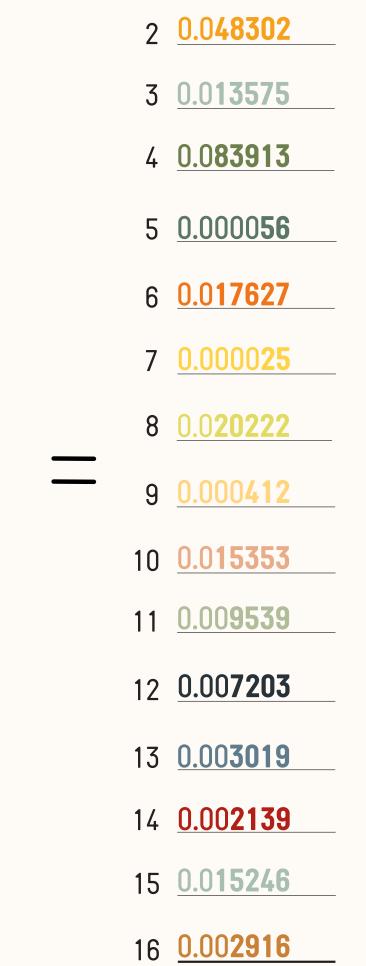


Human toxicity,

noncancer

| 1  | 2587.449781      | kg CO₂eq             |
|----|------------------|----------------------|
| 2  | 0.000 <b>321</b> | Disease<br>incidence |
| 3  | 1829.474203      | M³ world eq          |
| 4  | 65561.667349     | MJ                   |
| 5  | 573.633041       | Dimensionless        |
| 6  | 0.014854         | kg Sb eq             |
| 7  | 0.000021         | kg CFC-11 eq         |
| 8  | 18.124273        | Mol H+eq             |
| 9  | 34.671085        | Kbq U-235 eq         |
| 10 | 13.124030        | kg NMVOC eq          |
| 11 | 45.446968        | Mol N eq             |
| 12 | 4.756349         | kg N eq              |
| 13 | 0.173241         | kg P eq              |
| 14 | 0.00000 <b>2</b> | CTUh                 |
| 15 | 45037.101032     | CTUe                 |
| 16 | 0.0000 <b>20</b> | CTUh                 |





1 0.072145

PEF single score = 0.311692

The single score reflects the overall environmental performance of a product. The single score is obtained by adding up all the weighted results.



0.311692 PEF single score