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

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.

1	2587.449781	kg CO_2eq	1	0.342569	1 0.072145
2	0.000321	Disease incidence	2	0.539089	2 0.048302
3	1829.474203	M^3 world eq	3	0.159519	3 0.013575
4	65561.667349	MJ	4	1.008575	4 0.083913
5	573.633041	Dimensionless	5	0.000700	5 0.000056
6	0.014854	kg Sb eq	6	0.233469	6 0.017627
7	0.000021	kg CFC-11 eq	7	0.000394	7 0.000025
8	18.124273	Mol H+eq	8	0.326155	8 0.020222
9	34.671085	Kbq U-235 eq	9	0.008216	9 0.000412
10	13.124030	kg NMVOC eq	10	0.321201	10 0.015353
11	45.446968	Mol N eq	11	0.257118	11 0.009539
12	4.756349	kg N eq	12	0.243352	12 0.007203
13	0.173241	kg P eq	13	0.107814	13 0.003019
14	0.000002	CTUh	14	0.100438	14 0.002139
15	45037.101032	CTUe	15	0.794073	15 0.015246
16	0.000020	CTUh	16	0.158473	16 0.002916

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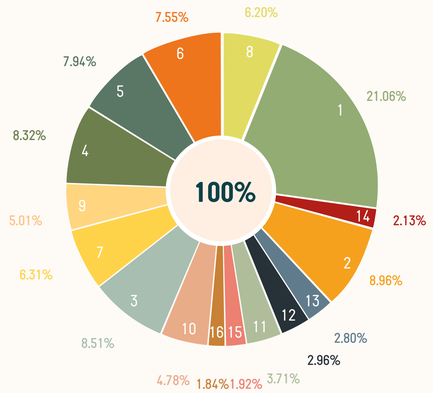

0.311692 PEF single score

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.

* Scientists have weighted the categories based on urgency, impact scale, accuracy of measuring method.
Numbers are based on calculations of 1 tonne of Polypropylene (PP) pellets GLO. Numbers are subject to changes.

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