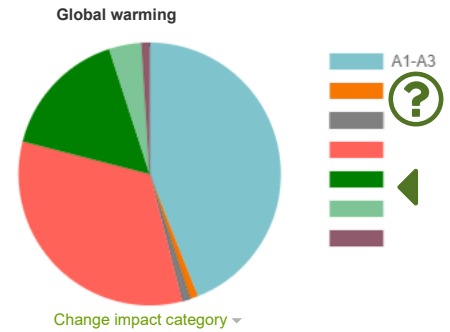




Result report: Visionary V1 - Green Energy

Entity	Visionary - Visionary V1 - Green Energy
User	Anna Silovska - 19.05.2018
Indicator	LCA for BREEAM Int'l/ES/NOR/SE
Details	This is officially approved LCA in compliance with BREEAM International NC 2013 and More...



Default values are used in calculation: Transportation distances, European. Results were also calculated again.

Life-cycle assessment results for BREEAM International versions as per EN 15978

Sector	Global warming kg CO2e	Acidification kg SO2e	Eutrophication kg PO4e	Ozone depletion potential kg CFC11e	Formation of ozone of lower atmosphere kg Ethenee	Nor hazardous waste disposal kg
A1-A3 Construction Materials	1,12E7 0 %	2,47E4 0 %	3,07E3 0 %	1,16E-2 0 %	2,53E3 0 %	2,17E6 0 %
A4 Transportation to site	2,3E5 0 %	5,33E2 0 %	1,13E2 0 %	4,05E-2 0 %	2,86E1 0 %	1,14E3 0 %
A5 Construction/installation process	2,08E5 -57 %	7,06E2 -73 %	1,92E2 -56 %	2,1E-2 -46 %	1,6E1 -85 %	1,64E4 -37 %
B4-B5 Material replacement and refurbishment	8,23E6 0 %	1,92E4 0 %	2,35E3 0 %	3,7E-3 0 %	2,1E3 0 %	1,59E6 0 %
B6 Energy use	4,17E6 -87 %	2,18E4 -89 %	4,49E3 -84 %	3,04E-1 -85 %	1,05E3 -89 %	9,55E4 -91 %
B7 Water use	1,08E6 0 %	5,82E3 0 %	2,95E3 0 %	1,17E-1 0 %	2,62E2 0 %	1,5E5 0 %
C1-C4 Deconstruction	2,32E5 0 %	1,1E3 0 %	2,62E2 0 %	4,61E-5 0 %	1,51E2 0 %	9,06E5 0 %
D External impacts (not included in totals)	-2,22E5 0 %	-7,14E2 0 %	-5,65E1 0 %	-5,97E-5 0 %	-4,69E1 0 %	-3,09E4 0 %
D2 Exported energy (not included in totals)						
Total	2,53E7	7,39E4	1,34E4	4,98E-1	6,14E3	4,93E6
Comparing total results with: Visionary V1 - Energy mix CR						
Visionary V1 - Energy mix CR Total	5,24E7	2,57E5	3,71E4	2,21E0	1,48E4	5,86E6
Visionary V1 - Green Energy compared with Visionary V1 - Energy mix CR	-52 %	-71 %	-64 %	-77 %	-58 %	-16 %
	Show graph	Show graph	Show graph	Show graph	Show graph	Show graph
Results per denominator						
Gross Internal Floor Area (IPMS/RICS) 24900.0 m2	1,02E3	2,97E0	5,39E-1	2E-5	2,47E-1	1,98E2

Methodologically consistent and regionally representative LCA data

Answer

Local compensation target region

Czech Republic

Compared to local conditions, if applied by the user, is made according to CEN/TR 15941 and One Click LCA's BRE-approved methodology.



Results visualisation for Global warming (GWP)

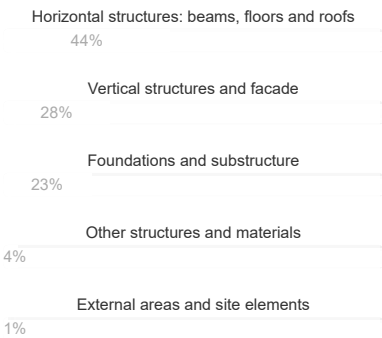
Change impact category ▾

25 298 tons CO₂e

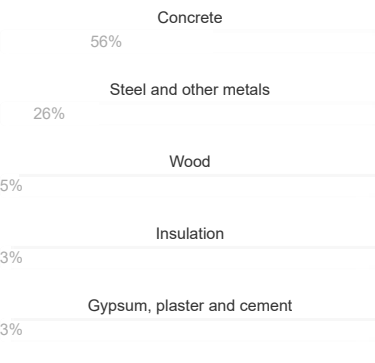
17 kg CO₂e / m² / year

€ 1 264 900 Social cost of carbon

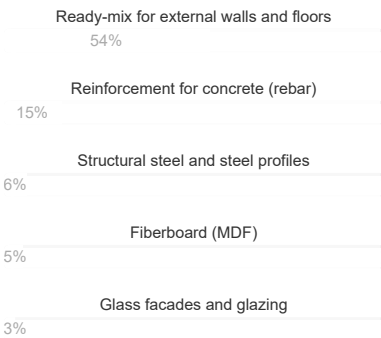
Most contributing building elements (GWP) - A1-A3



Most contributing material types (GWP) - A1-A3



Most contributing material subtypes (GWP) - A1-A3

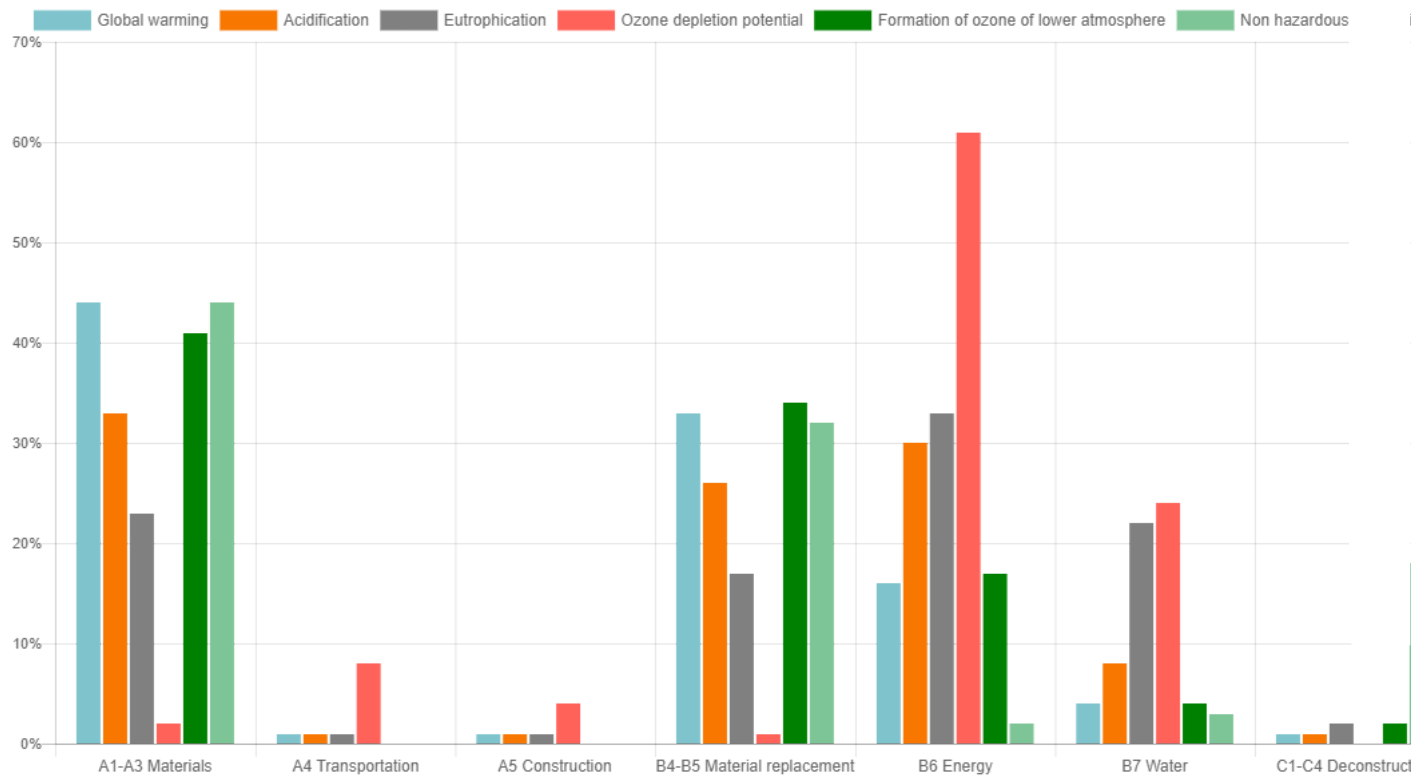


Most contributing materials (GWP) - A1-A3

1. Concrete, ready mixed C30/37 - **54.1 %** - show sustainable alternatives
2. Reinforcement steel - **15.5 %** - show sustainable alternatives
3. Steel profile - **6.0 %** - show sustainable alternatives
4. Insulating glass - 2 panes - **3.4 %** - show sustainable alternatives
5. Raised floor system, 148 - 159 mm, 25.95 kg/m², Type LIGNA (Lindner) - **2.8 %** - show sustainable alternatives
6. Frame profile, aluminium, thermally separated, powder-coated - **1.8 %** - show sustainable alternatives
7. Medium density fibreboard (MDF), coated, 2 - 50 x 590 - 2850 x 1025 - 6250 mm, 734 kg/m³ (Sonae Indústria) - **1.8 %** - show sustainable alternatives
8. Tile cement - **1.4 %** - show sustainable alternatives
9. Elastomer joint sealer tape, silicon rubber - **1.3 %** - show sustainable alternatives
10. Hot-dip galvanised steel sheet - **1.3 %** - show sustainable alternatives

Results distribution by life-cycle stage

Click on a category legend to hide/unhide [Download](#)



Global warming (GWP), grouped by Mat 01 element breakdown

Click on a category legend to hide/unhide [Download as image](#)

Datasets contain unclassified data (5)



