



eco2soft

Quick and easy life cycle assessment

baubook's online tool **eco2soft** enables quick and easy calculation of life cycle assessments for buildings and a clear presentation of the ecological cost of all life phases (construction, renewal and disposal).

Life cycle assessments are gaining in importance, as focus is shifting towards the ecological impact of the embodied energy, particularly in buildings with reduced operational energy demand. For this reason, LCA calculations (Oekoindex) are mandatory in Austria for housing subsidy and in various local building certification systems.

eco2soft is a fast and user-friendly life cycle assessment calculator - no additional energy calculator software is needed

baubook has developed a fast and reliable life cycle assessment calculator for single use or in combination with other energy performance calculation programs. It is perfectly suited for research, educational or professional purposes. eco2soft enables calculation as required for the Austrian Oekoindex method: in different "assessment limits" and system boundaries and for the six main environmental impact categories. Other indicators, as the Austrian EI disposal indicator or the building operation performance can be displayed as well.

Designed for saving time, enabling straightforward calculation procedures

Thanks to a special feature of eco2soft, considering different "assessment limits", as

defined in the Austrian Oekoindex method, can be easily and quickly done. Using predefined components and a simplified calculation model for masses and surfaces lead to significant time savings while ensuring high reliability in the results. Alternatively, a detailed input for in-depth analysis is possible.



„The implementation of predefined components and a simplified surface model provide practical support and deliver fast and tangible results.“

Cristina Florit, eco2soft and LCA expert.

eco2soft offers different component catalogues for a wide range of elements, as the IBO passive house component catalogue or specific manufacturers' catalogues. These lead to a substantial reduction of the input effort.



Catalogue offer is constantly extended, baubook conducts continuous quality assessments.

eco2soft assesses all main impact categories

eco2soft allows the assessment of environmental impacts resulting from: Global Warming Potential (GWP100 total), Acidifica-



„You can reduce the input effort massively by choosing between more than 300 predefined components. We are constantly extending this service.“

Patrick Denz, Customer service baubook GmbH

tion Potential (AP), Ozone Depletion Potential (ODP), Eutrophication Potential (EP), Photochemical Ozone Creation Potential (POCP)

and Primary Energy, differentiated into non-renewable (PENRT) and renewable (PERT).

Always and everywhere in use

eco2soft is an online tool that can be used anywhere, no installation is required. The annual subscription fee costs 120,- euros.

We offer reduced fee options for researchers and universities and free fully functional access for thesis students.

Please find further information on www.baubook.at/eco2soft



Info: The Oekoindex assessment limits („Bilanzgrenzen“)

BG 0: All construction elements of the building's thermal envelope + all slabs, excluding wall and roof cladding, ventilated façade systems and sealing layers

BG 1: All construction elements of the building's thermal envelope (all layers) + all slabs

BG 2: BG 1 + load-bearing partition walls (not used in practice)

BG 3: BG2 + walling systems, basement wall elements, foundations and all elements of building's unconditioned spaces, excluding external staircases and balconies

BG 4: BG3 + external staircases and balconies

BG 5: BG4 + building services components

BG 6: BG5 + outdoor facilities (pavings, carports, fences, etc.)

Attractive offers for research and education

Researchers and academic staff can benefit from discounted package deals, as for example: fully functional access for 5 researchers and 200 students for 950 euros (status as of 2020). Thesis students may get software licences for free.

What eco2soft can do

for experts in life cycle assessment

- saves time and is cost-effective
- has a consistent data basis
- calculates all main impact categories

in research and teaching

- does not require installation as it is an online application
- is always up to date
- offers free licenses for students

for decision-makers

- clearly displays the ecological cost for construction, renewal and disposal

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Database for **ecological building and refurbishment**