

BIPV**SOLAR INNOVA**

Photovoltaic modules architectural integration, also named "Solar Architecture" or "BIPV" (Building Integrated Photovoltaics), is defined as the installation of those photovoltaic modules that keep a double function; energetic and architectonic (coating, enclosure or shading) and replace conventional constructive elements too or can be constituents elements of the architectonic composition.



<https://solarinnova.net/>

alfaWALL**OKAMBUVA**

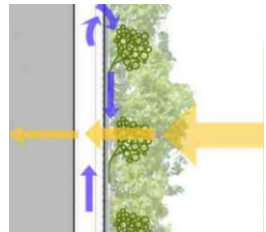
Okambuva is a company that has developed prefabricated straw panels for construction, suitable as load-bearing elements and envelope that meet current energy efficiency standards and are produced with local and nearby resources.



<https://www.okambuva.coop/>

Ecologic green roof, green wall**SINGULAR GREEN**

They reduce the interior temperature of a building in summer to 5°C, as well as keep it in winter, saving up to € 500 / m² per year (Akira Hoyano, profesor del Tokyo Institute of Technology).



<https://www.singulargreen.com/>

Recycled aluminum window**WICONA**

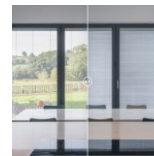
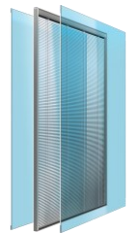
Hydro circal recycled aluminium is a range of aluminium made with a minimum of 75% recycled, post-consumer scrap. The production process is verified by an independent third party (DNV-GL) and confirmed by an EPD (Environmental Product Declaration).



<https://www.wicona.com/en/int/>

Venetian blinds integrated inside the insulated glazing**PELLINI**

ScreenLine® integral blinds are shading systems (venetian, pleated or roller blind) integrated within an insulating glass unit designed to optimise heat and light gain according to the year's seasons and to improve the window system's transmittance (U-value).



<https://www.pellini.net/en>

House Engines**FACTORY 0**

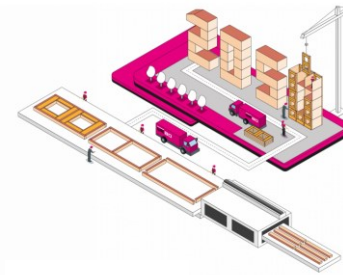
Factory Zero is focused on the development of components for high energy efficient retrofits and new builds. The iCEM is a compact, integrated Climate Energy Module that provides the home with a conditioned indoor climate (ventilation, heating and hot tap water). Optionally, the iCEM can be expanded with PV panels (to be installed externally), a matching inverter and cooling function.



<https://factoryzero.nl/>

Prefab timber panels**WEBO**

WEBO produces timber frame elements for residential and non-residential construction projects. Thanks to an automated production process, WEBO is able to assemble timber frame construction elements at the construction site within a minimal lead time.



<https://www.webo.nl/>



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MATERIALS

Digital Building Materials Passport tool

MADASTER

a platform for the registration, organisation, documentation, storage and exchange of data regarding any materials, components and products used by the construction industry at such a high level of detail that the materials consumed in the economy can remain available to future generations, through circularity and the circular economy.



Material Passport



<https://madaster.com/>

MATERIALS

Recycled construction materials wholesaler

ROTOR DECONSTRUCTION & CONSULTING

Rotor Deconstruction is a cooperative that organises the reuse of construction materials. They dismantle, process and trade salvaged building components.

4000 m²

of reclaimed building materials in the center of Brussels

Value



RotorDC
Deconstruction & Consulting

<https://rotordc.com/>

MATERIALS

Timber frame prefab panels

TIMBECO

Timbeco prefab solutions are designed for the construction or renovation of buildings. We offer a standard solution (Timbeco Modular System) or tailor-made projects. The solutions are based on modularity and can be customized as your needs change.



<https://timbeco.ee/>

MATERIALS

Hemp concrete

TRADICAL

Tradical® Hemcrete combines the low density (as low as 375 kg/m³) with excellent insulating properties, an exceptional elasticity (due to the composite effect of the hemp shiv and the lime matrix) and important vapour permeability.



<https://www.bcb-tradical.com/>



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WASTE

Anaerobic biogas digester

HOME BIOGAS

HomeBiogas develops biogas systems. The anaerobic system decomposes waste (kitchen waste, animal manure, and human waste) and transforms it into renewable biogas for cooking and into liquid bio-fertilizer.



HOME BIOGAS®

<https://www.homebiogas.com/>

WASTE

Anaerobic digester

KETER

Eco Composter transforms kitchen and garden waste into fertilizer. It is made from recycled materials.



KETER®

https://www.keter.com/gl_en/

WASTE

Circular waste management service

COCIRCULAR

CoCircular offers an integral service of circular waste management for developers, construction companies, engineering firms and architecture studios. They also certify the traceability of construction waste until its actual recovery.



CoCircular

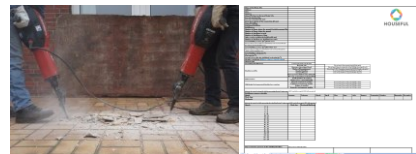
<https://www.cocircular.es/>

WASTE

End-of-life building management programme

ITeC

Optimal management of waste at the end of building life cycle. An analysis of maximum recovery and valorization potential of existing materials in buildings (i.e., envelope, facade, etc.) at refurbishment or demolition stages. The solution provides with demolition guides to guarantee safety management of waste streams.



ITeC

<https://en.itec.cat/>



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Green facades and NBS systems for treatment and reuse of rainwater

ALCHEMIA-NOVA

Alchemia-nova is a research and innovation institute that brings science to the market with nature-based solutions, for example, with phytotechnology. It describes the application of plant-related science and engineering to study problems and provide solutions for technical and socio-ecological challenges.



<https://www.alchemia-nova.net/>

Rain/Greywater harvesting + storm water management

INTEWA

INTEWA develops and distributes products and systems in the areas of: Water treatment and reuse, as well as stormwater management, including infiltration and retention of stormwater.



INTEWA

<https://www.intewa.com/en/home/>

Blackwater treatment system

ALCHEMIA-NOVA

Alchemia-nova's green walls run on wastewater, using contaminants as plant nutrients, thereby cleaning the water for re-use. "LooPi – the plant-based public urinal for all genders" is a combination of wastewater management and green infrastructure: wastewater is treated via the integrated green wall and re-used for flushing.




**alchemia
nova**
institute for
circular economy &
nature-based solutions

<https://www.alchemia-nova.net/>

Anaerobic biogas digester

HOME BIOGAS

HomeBiogas develops biogas systems that decomposes and turns wastewater from toilets (body waste), using an anaerobic system, into renewable biogas for cooking and into liquid bio-fertilizer.



HOME BIOGAS®

<https://www.homebiogas.com/>



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