

Centre for sustainable design

ECO DESIGN

an asset for our companies
Catalogue



centre for sustainable design

Foreword

Sustainability is a bridge built between the culture and the economy. By re-thinking the design of their production processes, companies are proposing economically viable alternatives to the current products and services.

We hope that the exhibition "ECODESIGN, an asset for our companies" will serve as a springboard for companies that have taken on the wager of incorporating sustainable design into their products or services and that have all taken up the challenge of modifying their processes in a sustainable way. We hope to offer these initiatives an international visibility and also to put the Meuse-Rhine Euregion on the European map of creativity, talent and entrepreneurship.

Just like us, we hope that the companies presented in this exhibition will not fail to motivate you to follow the path of sustainability, if only because each case will demonstrate to you that sustainability rhymes with profitability.

Paul-Émile Mottard

Deputy of the Province of Liege (B)

Gilbert Van Baelen
Deputy of the Province

of Limbourg (B)

Odile Wolfs

Deputy of the Province of Limbourg (NL)

recentre

centre for sustainable design

About REcentre

Knowledge and promotion centre of sustainable design, REcentre has the mission of ensuring its development in the territory of the Meuse-Rhine Euregion.

REcentre offers companies tools, methods and advice to orient their activities toward a more eco-friendly production. It organises training courses given by specialists in the field, establishes an overview of the sustainable companies in the Euregion and carries out a large-scale market study in order to offer entrepreneurs quantitative data on the market, its outlets and the consumer expectations.

By making its network and its expertise connected with sustainable design available to designers, schools and companies, REcentre intends to initiate and inspire projects that will give rise to sustainable products and concepts.

REcentre is an Interreg IVa project, supported by Wallonie Design, Liege (B), Z33, Hasselt (B) and NAIM/Bureau Europa, Maastricht (NL).

www.recentre.org

What is ecodesign?

Ecodesign is a proactive approach that is characterised by taking the environment into account during the phase of designing or improving a product.

The objective of this approach is to improve the ecological quality of the product, which means minimising its negative impacts on the environment throughout its life cycle, while still keeping the traditional criteria – cost, quality, technical feasibility and the expectations of the market.

Ecodesign is vital for the company

Although the human and environmental advantages are sometimes difficult to evaluate, the economic benefits for a company applying a policy of ecodesign can be measured in terms of financial performance.

The reduction in energy costs or raw materials and the improvement of staff productivity are good examples of this. In an environment that is more and more competitive, companies' efforts to improve the quality of life through ecodesign are becoming a significant factor for differentiation.

L'ECCDESIGN:

- + improves the quality of products
- + increases the service connected with the product
- + stimulates innovation
- + stimulates economic development
- + strengthens the regional economy
- + makes it possible to anticipate legal restrictions

For a clear understanding









FROM CRADLE TO CRADLE It's an ecodesign approach whose objective is to create industrial systems in which the flows of materials circulate continuously. This concerns reinventing industrial processes in order to develop clean solutions and to create an industry where EVERYTHING is re-used, either returned to nature in the form of non-toxic biological nutrients, or returned to industry in the form of technical nutrients that can be recycled infinitely.







THE ANALYSIS OF THE LIFE CYCLE is an effective and systematic means of analysing and evaluating the environmental impacts of a product, a service or a process. The fundamental goal is to reduce the pressure of a product on resources and the environment throughout its life cycle, from the extraction of the raw materials to its treatment at the end of life. By limiting the needs for resources and energy, the value chain of the product is improved.





RAW MATERIALS

- Use of renewable resources
- Elimination of toxic substances
- Use of recycled materials

END OF LIFE MINIMINI TO THE PARTY OF THE PA

- Extend the life cycle
- Dismantling
- Re-use
- Recycling

USE

- Energy efficiency
- Shared product
- Dematerialised product





- Reduction of emissions
- Choice of fair manufacturing
- Choice of local manufacturing

- ...

PACKAGING



- Reduction of the number of packages
- Reduction of the volume
- ...

TRANSPORT



- Decrease the weight or the volume of the product

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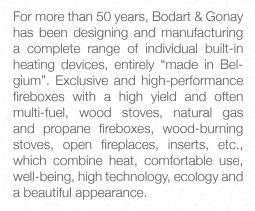
- Work with local subcontractors
- Assembly of products at home

- ...



Bodart & Gonay

Parc Artisanal de Harzé Rue de Lambinon, 3 4920 Harzé Belgique www.b-g.be



With a real concern for quality and reliability, Bodart & Gonay develops products that perform well above the standards in force, as far emissions are concerned and in respect of the yield, and it incorporates the latest technical and technological innovations concerning efficiency into the refined, timeless design of its products.



FOYER SD442

A new design for a firebox combining plain lines, a compact volume, a high yield, outside air intake, making it possible to benefit from the friendliness of an open fireplace at all times with an interior covering of vermiculite to promote heat radiation.

The dual fuel stove ensures a high yield, above 75%, and the outside air intake makes it a firebox that is whole-heartedly recommended for passive or low-energy houses.

A compact collapsible door system completely opens up the view of the flames. This system considerably limits the total size of the device, offering the possibility of installing it in an existing fireplace.













BuzziSpace

Kernenergiestraat, 65 2610 Wilrijk Belgique www.buzzispace.com



Designed for the home of tomorrow, the Buzzispace products are manufactured out of "écovilt", an ecological felt made of 100% recycled PET bottles with a high degree of acoustic absorption.

In the office and at home, these products offer comfort and intimacy, and are an example of functionality, lightness and flexibility.

BUZZISCREEN

A light acoustic screen whose felt panels can be combined infinitely thanks to a sliding closure system. It is possible to combine several screens in different colours. The internal structure of the panels is made of biodegradable honeycomb plates. Beyond its ecological side, one of the principal advantages is its incredible acoustic insulation ability.

BUZZICUBE 3D

The BuzziCube is a comfortable pouf made of "écovilt" and recycled foam.













Babymatters

Joseph Van Instraat, 30 2500 Lier Belgique

www.babymatters.com



Environmental awareness, functionality, quality and design are the basic concepts of Babymatters, specialising in bathroom articles for babies and infants.

The products have been developed according to the cradle to cradle (C2C) philosophy of 100% recyclable materials that present the most reduced ecological footprint possible without sacrificing comfort, ease of use or the beauty of the object.

DOTPOT

The DotPot, a small pot that comes in five bright colours and which, thanks to its three functions in one (small pot, toilet adapter, foot stool), will grow with your child's needs.

No cheap plastic in garish colours that jars in the bathroom here, but rather a refined, stimulating design of sustainable and recyclable manufacturing materials. The DotPot is completely free of toxic substances and does not contain either phthalates or bisphenol A.

At the end of its life cycle, the DotPot can be recycled in accordance with the principles of the C2C philosophy.









Dingens Barometers & Clocks

Genebroekstraat, 94 3581 Beverlo Belgique

With more than 50 years of expertise in the field, Dingens Barometers & Clocks has turned to innovation with determination by offering a new model of precision barometer.

Very special attention was given to the design in order to respond to today's aesthetic criteria.

INNOVACELLI

The Innovacelli barometer was developed in collaboration with the University of Hasselt, the centre of innovation of Limburg and Sirris, to respond to the current ecological concerns.

Its extremely high-precision mechanism is completely free of mercury, which for nearly four centuries was the standard for measuring pressure. From the internal settings to the covering, everything has been designed to supply the user with a high-quality product that is easy and pleasant to use.

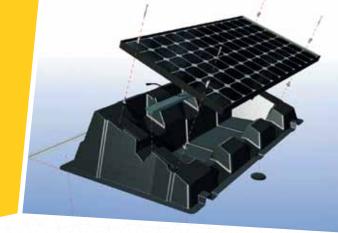
An example of sustainability and knowhow, the Innovacelli barometer was presented at the World Expo 2010 Shanghai to illustrate the theme: "Better cities, better life"





Ecostal

Cockaifagne, 52 B 4885 Jalhay Belgique



Active in Belgium and abroad, Ecostal specialises in renewable energy solutions, especially photovoltaics and solar thermal energy.

With its technical know-how, a guarantee of uncompromisingly optimal solutions, the young company is diversifying its activities; it now offers a unique attachment system for photovoltaic installations on flat roofs.

STALROOF

Entirely designed in Belgium, the Stalroof is an innovative attachment system made of recycled plastic. Intended for flat roofs, it makes it possible to incorporate a wide choice of photovoltaic panels without having recourse to tedious stability studies and without compromising the water waterproof quality of the surfaces.

Easily manipulated by a single person, the elements of the Stalroof can be stacked, which allows for easy stocking and quick transport. The Stalroof is supplied in kit, with a small number of attachment pieces, leading to major time savings during installation.

The degree of slope, calculated in relation to our geographical zone and devised to optimise the surface area of the solar cells on a roof allows for limiting the distance between two lines to the maximum extent possible.











Ecover

Industrieweg, 3 2390 Malle Belgique

www.ecover.com



Ecover is number one in the world in the production of ecological laundering and cleaning products.

Ecover's pioneering ecological policy is an integral part of the company's activities.

Ecover has built the first ecological factory in the world, consisting entirely of recyclable or recycled materials, and covered with a turfed roof of more than 6000 m².

A good number of Ecover products can be obtained as refills. By reusing the containers, the customers contribute to reducing the environmental impact connected with the distribution and to the elimination of packaging.

THE ECOVER RANGE

Where effectiveness and ease of use are concerned, Ecover's products rival conventional products. To guarantee their effectiveness, Ecover uses the testing methods and measuring techniques currently used in the detergent industry.

Ecover takes into account the ecological, economical and social aspects during the entire life cycle of the products. Rigorous criteria are applied at all stages in the organisation: from the selection of the raw materials to the total decomposition of the end products, and including the production technologies.













GreenPan

Heiveldstraat, 8 3600 Genk Belgique



Specialising in nonstick cooking materials, Greenpan has assigned itself the mission of offering products that are "constainable" (convenient and sustainable). Convenient because they do not question our comfort in life; sustainable because they protect natural resources in a responsible way.

Thanks to Thermolon™, a revolutionary new material, the GreenPan company is the first to offer fully ecological non-toxic cooking utensils. In comparison with other nonstick coverings, Thermolon™ requires 60% less energy for manufacturing, contains neither PTFE* nor PFOA* and does not risk overheating.

*PolyTetraFluoroEthylene *P erfluorooctanoïque acide

DUBAI

The asymmetrical shape of the GreenPan™ Dubai range guarantees the maximum cooking surface: less material for optimum use.

The handles are made of recycled steel and the body of partially recycled aluminium.

Even Thermolon™ does not have an unlimited shelf life. This is why the products have been designed to be easily disassembled in order to offer a second life to their components.











Imperia AUTOMOBILES

Liège Science Park Avenue Pré-Aily, 20 4031 Liège Belgique www.imperia-auto.bo



Specialised in the development of more eco-friendly prototypes, Green Propulsion is bringing the last Belgian automobile make back to life: Imperia.

The Imperia Automobiles project is clearly ambitious. This new automobile concept makes use of unusual technologies, at the same time that it leads to a new approach to driving and to the pleasure it provides.

This concept hinges on three remarkable requirements:

- -An ecological concern, through a motorisation based on the rechargeable hybrid technology, crowned with unusual autonomy in electronic mode.
- -The pleasure of sporty driving, provided by high-level performance.
- -A concern with design, which is expressed in a neo-retro line that will charm the most demanding car lover.

IMPERIA GP

The Imperia GP is a vehicle whose fuel consumption and CO2 emissions are comparable with those of a Smart For-Two while providing remarkable performance easily rivalling that of makes like Ferrari and Porsche.

With its wings independent of the engine bonnet and its fluid lines, the Imperia GP celebrates the return of a concept where elegance and efficiency are harmoniously integrated.









Jaga

Verbindingslaan, 1 3590 Diepenbeek Belgique

www.jaga.be



Jaga, "the radiator factory", warms up body and soul and reduces energy consumption thanks to its innovative and functional radiators with an appealing aesthetic appearance.

These radiators can be incorporated into any type of interior, which they illuminate with their playful design. The "Energy Savers" range is positioning itself as the new standard for sustainability with an energy efficiency 12% higher than for traditional radiators.

PLAY

The Play range of radiators provides heating playfully.

The colours of the Play4Girls and Play4Boys models will create a joyful atmosphere in children's rooms or in school classrooms.

For this young public, Jaga has given very special attention to safety: the envelope of MDF will never be too hot, and all the technical elements are sheltered from their little fingers.









Kreon

Industrieweg Noord, 1152 3660 Opglabbeek Belgique



Reducing each product to its essential components and giving priority to luminance and floodlighting are Kreon's watchwords across its entire range.

By designing lighting that reflects and embellishes the architecture into which it is incorporated, Kreon makes it possible to architects and interior designers to sublimate their creativity.

NUIT

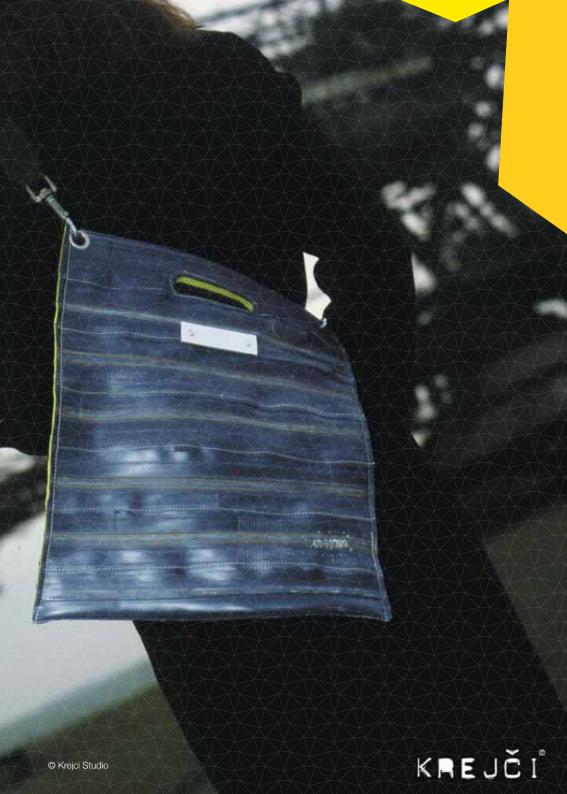
Combining a revolutionary LED system with an elegant design, NUIT deploys a true curtain of light illuminating interiors in a dazzling way.

Thanks to NUIT the lighting designer can create true luminous works perfectly integrated into the building.

Thanks to its reduced consumption and its integrated rheostat, NUIT is an ideal element for ecological buildings.







Krejci Studio

Westerdok, 780 1012BV Amsterdam Pays-Bas www.krejci.nl



Originating in the former German Democratic Republic, where she studied fashion design, designer Doreen Westphal followed courses in theatre design at Nottingham Trent University since 1989. Settled in Amsterdam, she is currently working as a costumer and a theatre designer.

In 2003, she launched her line of bags under the name KREJCI!

KREJCI Amsterdam. It is the combination of timeless design, unusual materials and production that is conscious of social and environmental challenges.

With her collections of salvaged materials, made from inner tubes (TUBUS) or air mattresses (LUMATRA), KREJCI offers a wide range of products with a contemporary design.

TUBUS COLLECTION

The idea of the TUBUS collection came into being when Doreen received a bag full of used inner tubes as a Christmas present. It was only after many tests and reflections that this line of solid bags with a unique look composed of unusual materials saw the light of day; of felt and real Amsterdam inner tubes.

The inner tubes are collected by Debby, of the sheltered employment organisation Pantar, who makes a tour of the cycle repair shops in Amsterdam every week on her bicycle.

In Warsaw, Poland, a fair trade workshop makes these very high quality trendy bags by hand.







Moonen

Fahrenheitstraat, 11 Postbus 10010 6000 GA Weert Pays-Bas

www.moonenpackaging.com



Moonen Packaging specialises in the production and distribution of innovative packaging materials for the food and non-food sectors, hygienic products and disposable dishes.

Since 2000, Moonen has been testing and developing new ecological applications based on natural renewable materials.

MOONEN NATURAL

Moonen Natural is a complete 100% biodegradable range of compostable materials. All the products are made of renewable materials originating from plants: sugar cane, corn starch, etc.

These products are the manifestation of the company's determination to reduce polluting wastes to the maximum extent possible and guarantee a greener future.











Roltex

Watermolenstraat, 12 9320 Erembodegem Belgique



Number one on the market in several European countries, Roltex offers a wide range of trays and glasses of unbreakable polycarbonate.

Using its experience and its technological skills, Roltex has created the Earth Tray, a tray composed of recycled materials, making the choice between comfort and sustainability unnecessary.

EARTH TRAY

Completely CO2 neutral, this tray consists of 70% hard fibreboard from FSC wood and 30% resin from biowaste.

It offers more advantages than a standard melamine tray: it is robust, resistant to scratches, completely appropriate for contact with food and dishwasher resistant.







TDS Office Design

rue de l'hippodrome, 186 4000 LIEGE Belgique



The company sees to manufacturing compliant products within the time periods allotted while conforming to the legislation regarding the well-being of its workers as well as safety at the work site.

Since 1998, TDS has fully reviewed its management and production methods, giving priority to the environment and the management of every type of waste, and sees to it that its suppliers are also in conformity with these requirements.

TDS fully satisfies the ISO 14001 environmental and social standards.



A range of furniture, ergonomic, with a simple but innovative design where technology, ingenuity and modularity unite with robustness and meticulous attention to the manufacturing details.

Beyond physiological ergonomics, TDS is also attentive to cognitive ergonomics which, through the design, the choice of materials and the colours, provides the user with a Zen and creative work environment.













Tribù

Langendijkstraat, 5a 3690 Zutendaal Belgium

www.tribu.be



The company Tribù is one of the great names in outdoor furniture. Discreet luxury and technical perfection are the trademarks of the company. Only sustainable materials with irreproachable quality enter into the manufacturing of its products. Designed by designers with international fame, these products are a mixture of elegance, purity, timelessness and character.

TERRA

Designed by Bram Bollen, the Terra chair is produced from Canax®, a revolutionary fibre, consisting of a synthetic body and natural hemp fibres. Hemp is a rapidly growing plant whose cultivation does not require either pesticides or fungicides.

The manufacturer of this Canax® fibre has developed a recycling process that separates the PVC from the hemp fibre, which are both then re-used for other applications.

The Canax® fibre is especially easy to use and does not require the use of chemical detergents. Water and if necessary a little soap are fully sufficient.









United Pepper

Chaussée de Mons, 63 7800 Ath Belgique



United Pepper commercialises a range of products with high added value, an attractive design and sometimes playfulness. For its products it appeals to the most recent technologies, for quality without compromises.

As far as it can be done, these products are made up of natural, non-polluting materials. And of course recyclable, in order to keep their ecological footprint to the minimum!

United Pepper is the first company with Fair Trade certification in the field of electronics. The certification was completed in 2007 by Traidcraft for the factory in Viet Nam. The manufacturing and assembly of the products are done with care down to the smallest details and guaranteed by United Pepper.

LILI

LILI is a Webcam that does not require any external driver. The materials used are kapok, cotton and sand from the Mekong, natural products that are easily recyclable, and do not require much energy during manufacturing. The electronic components are recyclable, and PCB, an indispensable component, is kept to a strict minimum.

CUBE

The Cube webcam is the professional version of Lili. The case is made of FSC certified wood..

DUNE

The Dune touch-screen tablet is a hard-ware platform supporting different operating systems, among others Microsoft® Windows 7 and Linux.









Vange

Zoning Industriel du Haut-Pré rue Guillaume d'Orange 4100 Seraing Belgique www.vange.be



VANGE, creator and producer of contemporary furniture, has noted the following: the industrial manufacturing of furniture leaves little room for creativity and experimentation, because the procedure that leads from the idea to mass production is long and costly.

VANGE's project aims at bypassing this obstacle and creating a space that is favourable to this experimental approach in the creation of furniture. Designers, artists and architects will be offered the possibility of creating new objects, while participating actively in the process of the industrial manufacturing and marketing and selling of them.

Thanks to VANGE's experience in mastery of the execution and its distribution capacity, new concepts can thus very quickly see the light of day.

"Continuous creativity" is the company's creed.

K-BENCH

A modular and extendable bench, K-Bench is a work by designer Charles Kaisin. The idea is to allow the user to choose the shape that suits him or her: the size can be extended and the K-Bench can take on several shapes and be positioned depending on each person's desires, both inside and outdoors. Its structure of cellular plastic allows it to be folded up like an accordion.

It can even be put away in a drawer!







Van Houtum

Boutestraat,125 6071 JR SWALMEN Pays-Bas

www.vanhoutum.nl



Founded in 1936 by the brothers Henk and Jan Van Houtum, the company specialises in the production of innovative sanitary products and equipment for professional use, such as hygienic paper, kitchen roll, paper tissues and serviettes, serviette dispensers and holders. Respect for human beings and the environment is deeply anchored in this family company's values.

Thanks to the constant improvements of its environmental performance, the Van Houtum company can take pride in presenting CO2 emissions, wastewater discharges and energy consumption that are among the lowest in the world in its activity sector.

SATINO BLACK

Satino Black is a range of hygienic paper and towels consisting of 100% recycled paper. In addition to optimised energy and heat consumption, the water used for production is kept in a closed circuit, guaranteeing Van Houtum environmental performances significantly better than the average.

The use of natural biodegradable additives makes it possible to avoid the use of chemical products that could find their way into the environment. The production waste (paper fibres, chalk, etc.) are delivered to a nearby paper mill where they will be used as raw materials for manufacturing the packaging for the range.

Satino black is C2C certified and obtained the Red Dot Award – Communication Design in 2010.













Ecodesign, an asset for our companies

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