GREEN
FUTURE
CLUB

Best of the Best 2024

Exclusive Insights

On the following pages you will find the winning projects of the Green Product Awards 2024 across all 12 categories.

Important:
Blocking period for publication 30 April

Architecture
Beauty & Personal Care
Building Components
Fashion
Freestyle
Interior & Lifestyle
Kids
Consumer Goods
Kitchen
Mobility
New Materials
Packaging
Workplace
Audience Award

Urban Soundscape

Plant-based materials and smart reuse of waste

The designs are bio-façade panels and an urban amphitheater. It is suitable for architects, city planners and sustainability enthusiasts looking to address noise pollution and create immersive acoustic experiences in urban areas. The sustainability and innovation are in its materiality and fabrication techniques. We harness plant-based materials, repurpose waste like paper and use rice flour as a natural binder. The fabrication methods are varied and include 3D printing, CNC milling, extrusion and casting for versatile prototyping.

JURY: *"The bio-based modules are an attractive way of creating a variety of retreats in the city. The prevailing noise pollution is countered by multiple sensory impressions."*

Level: Student
Designer: Sahda Salsabila & Xinrui Cai
Institution: University College London
Country: United Kingdom

Website: https://gp-award.com/en/produkte/urban-soundscape
Press Kit: https://www.gp-award.com/downloads/urban-soundscape.zip

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Architecture

3DWoodWind

A modular construction system for timber

Website: https://gp-award.com/en/produkte/3dwoodwind
Press Kit: https://www.gp-award.com/downloads/3dwoodwind.zip

The 3DWoodWind Research Prototype demonstrates a new generation of additive technologies in timber construction: robotic winding processes for material-efficient, lightweight components. An AI-controlled design logic enables the intelligent combination of modular components into multi-storey structures which can serve as a substitute for concrete or steel systems in the future thanks to their high performance. The project demonstrates the interplay of intelligent design processes in conjunction with sustainability and structural planning through to robot-assisted construction technology.

JURY: *"The prototypes show a fascinating further development of robotic winding processes using wood as a material. High performance and an appealing design harbour enormous potential for the future."*

Level: Student
Designer: 3DWoodWind Research Prototype Team
Institution: Universität Kassel, FB06 ASL & FG EDEK
Country: Germany

Forestlines® Slats

Untreated wood with an unprecedented fire reaction

The Forestlines® slats are a revolution in the world of wooden cladding. They are the very first slats that achieve fire reaction class B-s1, d0 with untreated (!) wood. An intelligent aluminium profile is mounted in the side and ensures a reduction of +/- 65 to 80% in flammable surface area. We also work with fire barriers, heat conduction, etc. A wide variation in dimensions is possible: 40–70 mm thick, 90–360 mm deep and 20–150 cm spacing. The slats can also be made from recycled wood or FSC® certified Lesser Known Timber Species (LKTS), bringing biodiversity into the world of construction.

JURY: *"Considering the entire life cycle allows use of untreated wood, reversible constructions, a high fire-reaction class and use of FSC-certified or recycled wood, and takes into account biodiversity as well as avoiding any chemical treatments, this is an impressive example for circular building components!"*

Level: Established
Designer: Steven Paulussen
Institution: Paulussen Houthandel BV
Country: Belgium

Website: https://gp-award.com/en/produkte/forestlines-slats
Press Kit: https://www.gp-award.com/downloads/forestlines-slats.zip

Maxwell

Reduces energy consumption and carbon emissions

Website: https://gp-award.com/en/produkte/maxwell
Press Kit: https://www.gp-award.com/downloads/maxwell.zip

Maxwell is an innovative heat transfer fluid additive to provide higher thermal capacity for water or water-glycol HVAC systems. Improved fluid properties in cooling or heating systems are key step to reducing energy use. HT Materials Science is in the vanguard to deliver the promise of nanofluid additives with the release of Maxwell. Maxwell's unique ability to suspend nanoparticles in closed loop hydronic systems provides the HVAC industry with its first commercially available nano-based heat transfer fluid additive.

JURY: *"Commercial and industrial cooling and heating applications in particular require a lot of energy and therefore cause considerable CO2 emissions. This innovative solution in the form of a heat transfer fluid can be retrofitted to existing systems, saves costs and demonstrably reduces energy consumption."*

Level: Start-up
Designer: Arturo de Risi
Institution: HT Materials Science
Country: Ireland

MySol 3.5k

Second-life energy storage

MySol 3.5k is a modular backup battery tailored for Africa's energy needs. Designed for manufacturing in Africa, it utilises 100% repurposed lithium cells, offering affordability and reducing electronic waste. Resource efficiency is heightened by second-life battery-management systems from older devices, improving sustainability. The compression-based electrical contact ensures easy repairability, extending its lifespan. The enclosure is extruded from recycled ABS plastic sourced from old devices, further underlining the commitment to a greener future.

JURY: *"As the manufacturing could be fully handled in Africa, the battery provides a high level of self-organised realisation. The modularity, reparability and repurposability of batteries and lithium cells make the concept very attractive for Third World countries – they who are in need of electronic devices and have all the waste and raw materials at their front door."*

Level: Student
Designer: Christoph Konheisner
Institution: University of Turku
Country: Finland

Website: https://gp-award.com/en/produkte/mysol
Press Kit: https://www.gp-award.com/downloads/mysol.zip

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Consumer Goods

Flor de Caña Terra Rum

Eco-friendly rum packaged in sustainable materials

An eco-friendly and sustainably crafted ultra-premium rum (Carbon Neutral and Fair Trade certified) packaged in sustainable materials. The label is made from natural bagasse fiber, the bottle with recycled glass and the case with Forest Stewardship Council (FSC) certified material. From a 5th generation family estate since 1890, it's naturally aged in bourbon casks at the base of an active volcano without artificial ingredients and distilled with 100% renewable energy, producing a full-bodied rum with a long and smooth finish that lingers in the palate.

JURY: *"Really nice product with good sustainability aspects and nice design. In some ways unique, because there is hardly anything comparable in the spirits market."*

Level: Established
Designer: Flor de Caña New Product Development Team
Institution: Ingenio San Antonio
Country: Nicaragua

Website: https://gp-award.com/en/produkte/flor-de-cana-terra-rum
Press Kit: https://www.gp-award.com/downloads/flor-de-cana-terra-rum.zip

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Consumer Goods

Pebbles e.U.

Handmade, sustainable and fairly produced

We make compostable, reusable products for cleaning the kitchen, dishes and so on. Pebbles items are made from renewable resources such as cotton, hemp and sisal. Our sponges are designed to remove microplastics from the kitchen and replace traditional sponges. We make everything by hand and therefore do not use any other auxiliary materials that pollute the environment. By using renewable raw materials for the products, they can be disposed of without residue.

JURY: *"This natural product addresses daily sustainability challenges with a new design, enhancing both functionality and fun. Its longevity and mass market potential make it a significant eco-friendly alternative."*

Level: start-up
Designer: Tamara Fürstl & Barbara Pfeffer
Institution: Pebbles e.U
Country: Austria

Website: https://gp-award.com/en/produkte/pebbles
Press Kit: https://www.gp-award.com/downloads/pebbles.zip

Aquasense

A shower head for sustainable water saving

Website: https://gp-award.com/en/produkte/aquasense
Press Kit: https://www.gp-award.com/downloads/aquasense.zip

Aquasense presents an accessible water-saving solution and educates on the impact of consumption and scarcity seamlessly. Users can access data and personalized limits, molded by distinct parameters. To ensure inclusivity, haptic feedback integrates into the shower head, transmitting information to those with disabilities. The app's adaptive design offers versatile data presentation – a playful interface for children and minimalism for adults. Aquasense embodies innovation, inclusivity and sustainability, redefining water conservation for more informed and conscious consumption.

JURY: *"This innovative product introduces new features that blend gamification and education. Tackling one of the greatest challenges of our time – water conservation – it drives consumer behaviour change."*

Level: Student
Designer: Alexander Struppe, Carlo Mailänder, Kevin Costa & Christof Lehanka
Institution: Hochschule für Gestaltung Schwäbisch Gmünd
Country: Germany

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Freestyle

VANK_CUBE

Modular cube system for a green office

VANK_CUBE is a modular cube system that makes it possible to set up a truly green workspace in any environment and adapt it to the changing needs of its users or the organisation. The CUBE is manufactured using innovative biomaterials made from flax and hemp – fast-growing renewable plants that absorb much more CO2 than trees. As plant-based raw materials are its core components, it minimises the use of synthetics and contributes to the combat against climate change. The design fosters creative thinking and a culture of collaboration.

JURY: *"VANK's visionary modular cube system not only shows the creative use of organic materials like flax and hemp but also underscores their commitment to circularity by ensuring these materials can be returned to the cycle. The materials give the cubes a very unique appearance."*

Level: Established
Designer: Anna Vonhausen
Institution: VANK Sp. z o.o.
Country: Poland

Website: https://gp-award.com/en/produkte/vank-cube
Press Kit: https://www.gp-award.com/downloads/vank-cube.zip

GREEN FUTURE CLUB

Freestyle

Conscious Confetti

Biodegradable confetti from wafer paper

Website: https://gp-award.com/en/produkte/conscious-confetti
Press Kit: https://www.gp-award.com/downloads/conscious-confetti.zip

Conscious Confetti is biodegradable (water-soluble) confetti made of wafer paper. The paper originates from the residue flow of the food industry. Conscious Confetti made from potato starch gives wafer paper a circular life, minimalizes virgin raw materials and maximizes reuse. Conscious Confetti prevents food waste as well as plastic pollution. Perfect for parties, weddings and events, indoors and outdoors. No waste? Party on!

JURY: *"Conscious Confetti is a great idea that tackles plastic pollution and food waste. This brilliant approach is not only an example of smart design, it's also a beautiful way to promote sustainability."*

Level: Start-up
Designer: Ida van Esch
Institution: Candy Converters
Country: Netherlands

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Freestyle

Nautilus

A tool for collecting invasive mussels

Website: https://gp-award.com/en/produkte/nautilus
Press Kit: https://www.gp-award.com/downloads/nautilus.zip

Nautilus is a concrete and practical tool that facilitates the efficient collection of the world's most invasive freshwater mussel, Corbicula fluminea. After collection, the mussels can be consumed at home, for example for a paella, moules-frites or spaghetti, fresh and without long transportation from the local waters. They can serve as an alternative for foods that are otherwise only available through imports. This way, we can use a resource that strains our ecosystems and also enjoy the menu of the wild.

JURY: *"A research project with great results. As a product, it enables the ergonomic harvesting of mussels, an invasive species that threatens the ecosystem."*

Level: Student
Designer: Léon Bolz
Institution: Hochschule Luzern – Design & Kunst
Country: Switzerland

Reborn Composite Foam Mattress

Make, break and remake vs make, break, throw away

Website: https://gp-award.com/en/produkte/reborn-mattress
Press Kit: https://www.gp-award.com/downloads/reborn-mattress.zip

Reborn Products, the trailblazing sustainable manufacturer, offers a diverse range of products all manufactured from reclaimed/recycled materials deemed as waste. From a range of commercial and domestic mattresses, pocket sprung, open sprung or foam, to pillows, mattress toppers, divan bases, headboards, wooden planters, outdoor seating, caravan/camper mattresses and seating, pet beds, even peat-free compost and more.

JURY: *"The jury acknowledges the combination of high-quality design and function with environmental aspects – namely how post-consumer waste could be put back into massive foam usage. And it is worth appreciating, because all over the world this category of products needs scalable circular solutions."*

Level: Established
Designer: Paul Beckett
Institution: Reborn Products
Country: United Kingdom

Secondhand as First Choice

Reinventing the way people buy and use furniture

Website: https://gp-award.com/en/produkte/cocoli
Press Kit: https://www.gp-award.com/downloads/cocoli.zip

Over 10 million tonnes of furniture are thrown away every year in Europe (source: European Environmental Bureau). Among them are thousands of perfectly functional pieces, discarded by brands because they were slightly damaged during production or transport. COCOLI partners with these brands to sell their products on its secondhand platform, where you can also find vintage treasures and furniture from private individuals. With savings for the planet, but also for the consumer, COCOLI aims to show that secondhand can become a first choice and the new norm.

JURY: *"In today's world, there are only two legitimate ways to offer products. Either you use recyclable materials or you give objects a second life by rediscovering and reusing them as a resource. The start-up label Cocoli belongs to the second category. Giving things, in this case furniture, a second life is poetic, sustainable and individually beautiful."*

Level: Established
Designer: COCOLI Team
Institution: COCOLI GmbH
Country: Germany

GRO

Sustainable, recycled & flatpacked modular sofa

GRO is a modular sofa with a focus on social commitment, responsible materials, production and logistics. The foam is made from recycled mattresses and bio-waste. The cushions and armrests are upholstered in the textile Tonus, which is wool with the EU Ecolabel. The frame is made of oak and the sofa has been given the intended comfort via natural latex rubber straps. GRO is a sustainable and innovative submission, as the sofa is designed with a focus on flatpacking, comfort, sustainable materials and minimising material waste. The sofa is modular, so it can easily be adapted to any home.

JURY: *"The jury acknowledges the idea of creating a modular product suitable for the mobile, minimalistic and conscious customer. Convenience is combined with circular principles, which we wish to see a lot more of in future product development worldwide."*

Level: Student
Designer: Isabella Baad Johnsen & Sara Gamst
Institution: VIA University College
Country: Denmark

Website: https://gp-award.com/en/produkte/gro
Press Kit: https://www.gp-award.com/downloads/gro.zip

finkid BUDDY EKO

The first upcycled schoolbag on the market

Green Product Award Winner 24 Kids

finkid BUDDY EKO is a satchel that is available as a 4-piece set or individually without accessories and was developed for children in 1st to 4th grade. Our satchel is made from leftover materials from other productions. This not only conserves resources during production but also ensures a second product life cycle for the unused materials. The result is a unique patchwork look that is just as innovative as our idea of turning old into new and launching the first upcycled school bag on the market with BUDDY EKO.

JURY: *"The BUDDY EKO with its chic patchwork look successfully processes residual, unused materials for a second product life cycle and conserves resources during production. The customisation options are attractive for schoolchildren from year 1 to year 4 and parents have an environmentally friendly alternative with this upcycled schoolbag."*

Level: Established
Designer: Vera Dawallu
Institution: finkid GmbH
Country: Germany

Website: https://gp-award.com/en/produkte/finkid
Press Kit: https://www.gp-award.com/downloads/finkid.zip

Little Skittles - Bowling Set

Quiet, light, endless fun: cork bowling set!

Website: https://gp-award.com/en/produkte/little-skittles-bowling-set
Press Kit: https://www.gp-award.com/downloads/little-skittles-bowling-set.zip

The Little Skittles - Bowling Set is a classic rethought. Innovatively made from 100% recyclable cork pellets, it provides hours of bowling fun for children and parents – outdoors and indoors. Quiet, lightweight and sensory stimulating, it is perfect for curious children and environmentally conscious parents. The set promotes the motor development of little ones while protecting the environment. With Little Skittles, we bring an environmentally friendly, fun solution for active learning and play into every home, all at an attractive price.

JURY: *"The Little Skittles - Bowling Set offers bowling fun for the whole family. The use of cork scraps makes it sustainable, particularly quiet and lightweight. Not only the pleasant feel of the material but also the different colours of the skittles stimulate the senses. At the same time, the skittles game itself promotes the motor development of little ones."*

Level: Start-up
Designer: Greta Giangrande
Institution: Korko - Made By Nature, LDA
Country: Portugal

Amaze

A balance board combining fitness and fun

Website: https://gp-award.com/en/produkte/amaze
Press Kit: https://www.gp-award.com/downloads/amaze.zip

By combining maze challenges into a balance board, Amaze reshapes balance training. Suitable for all ages, it strengthens core muscles and foot coordination and improves balance while making workouts fun in various settings. The size allows for multiple users, enabling an exciting teamwork exercise. Amaze encourages physical activity in a sedentary era, offering an engaging and collaborative exercise experience for a sustainable, balanced life.

JURY: *"Amaze is a great combination of balance and maze that offers great fun for one or more people. Children train their balance, coordination and muscles and, if they use it together, also their teamwork skills. Thanks to its size, Amaze is also suitable for adults. Ideal for strengthening the parent-child relationship when playing together."*

Level: Student
Designer: Anna-Maria Nilsson, Clara Storsten & Lisa Wagner
Institution: Lund University School of Industrial Design
Country: Sweden

Muri

A non-electric cooling option

Website: https://gp-award.com/en/produkte/muri
Press Kit: https://www.gp-award.com/downloads/muri.zip

Muri is a compact, low-tech, alternative cooling system which can refrigerate your fruits and vegetables without any energy consumption – and therefore without any waste. Muri is an elegant and compact solution which most users would be proud to integrate onto their kitchens' countertops or floors. It is a low-maintenance alternative to existing solutions as it does not require daily intervention from its users – the product is mostly autonomous and can "self-feed" as needed. It is composed of readily available and accessible materials which can be easily assembled and maintained by its users.

JURY: *"Natural cooling through wet sand in a very appealing, modern form – without electricity. An interesting, historical approach that needs to be rediscovered."*

Level: Start-up
Designer: Thibault Lerailler, Tara Harb, Hugo Le Roux, Philippe Marchand & Valentine Chipault
Institution: Punctuate Design
Country: Canada

nunc.

Better coffee – magically easy

Website: https://gp-award.com/en/produkte/nunc
Press Kit: https://www.gp-award.com/downloads/nunc.zip

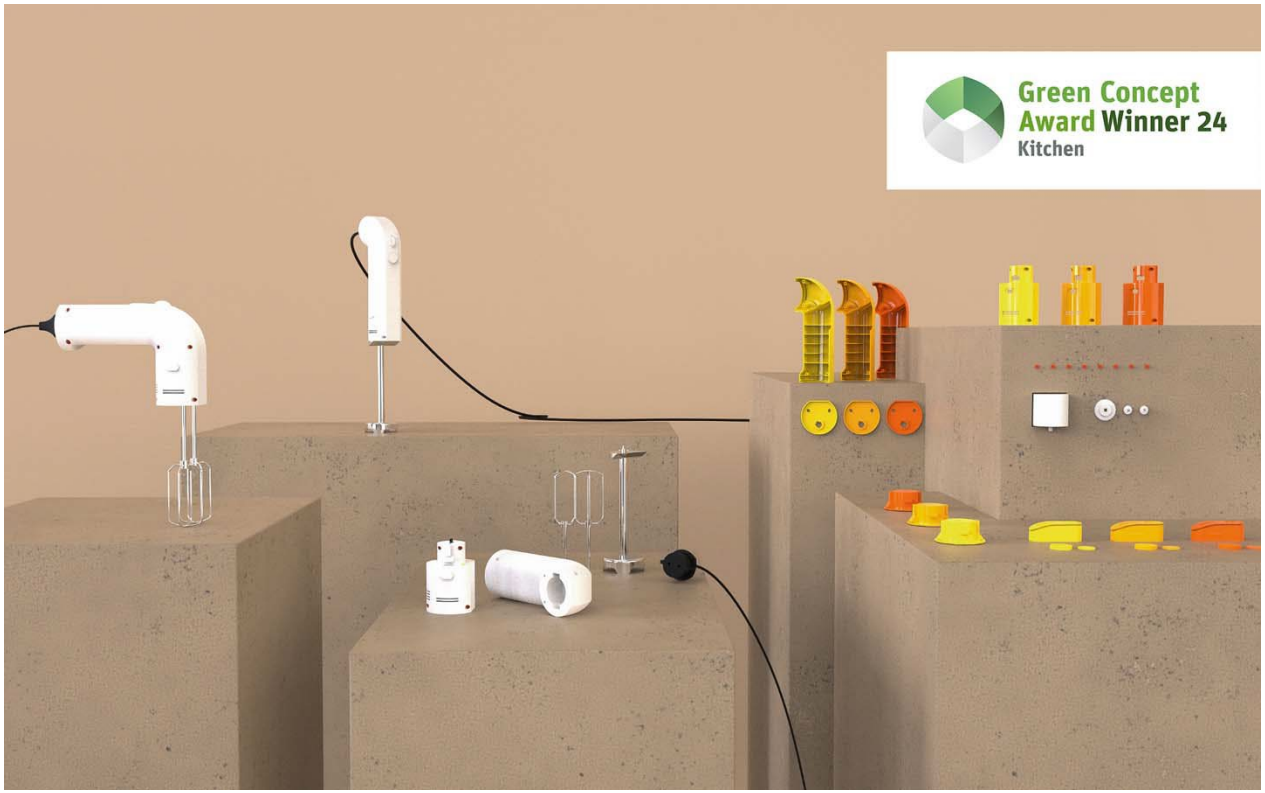
nunc. is an innovative portafilter espresso machine for your home with success guaranteed for every shot. It features a minimalist design and an intuitive interface. Thanks to novel energy control, nunc. saves up to 90% energy compared to traditional models. The uniquely designed coffee packaging is 100% recyclable and can be disposed of with household waste paper thanks to the monomaterial innovation. The coffee is grown under fair conditions and traded directly with farmers. nunc. enables sustainable coffee consumption of the highest quality in your own home.

JURY: *"The modern design turns any run-down kitchen into a gourmet space. The nunc. represents a perfect fusion of sustainability strategy and premium execution. Its energy-efficient technologies, well-planned recycling program and eco-friendly production processes make this stylish coffee machine a perfect contribution to ecological balance and an environmentally conscious lifestyle."*

Level: Start-up
Designer: Phoenix Design
Institution: Next Level Coffee GmbH
Country: Germany

SUTE

Soups and doughs that unite generations



Website: https://gp-award.com/en/produkte/sute
Press Kit: https://www.gp-award.com/downloads/sute.zip

SUTE offers an answer to the question of what kitchen appliances could look like in the future. Made for the circular economy, it can be repaired and is durable, and it also conveys these values to the outside world. When put together, the three parts make two different kitchen appliances. Each replacement part comes in the next colour generation so that SUTE always tells the story of the user. The eight bright orange screws are conspicuous and easy to reach – nothing is glued or hidden.

JURY: *"A great idea; adding colour design to the repair process is a new, interesting aspect. This is how unique pieces with a past are created."*

Level: Student
Designer: Alina Schlegel
Institution: Hochschule Hannover
Country: Germany

GREEN FUTURE CLUB

Mobility

The Green Marathon

The first tyre to close the loop

Website: https://gp-award.com/en/produkte/the-green-marathon
Press Kit: https://www.gp-award.com/downloads/the-green-marathon.zip

The Green Marathon is THE new benchmark for sustainability in tyre development and the most environmentally friendly bicycle tyre that Schwalbe has developed to date. Not only is it particularly durable, but it is also made entirely from fair trade natural rubber and consists of a total of 70% recycled and renewable materials. It is 98% free of harmful substances. The Green Marathon is the first and only bicycle tyre in the world to close the cycle: its rubber compound uses 100% carbon black from recycled bicycle tyres. Its variety of sizes makes it suitable for every bike.

JURY: *"The Green Marathon is an innovative product of a well-established German brand that makes your bike greener than ever. It drew the jury's attention with the insightful approach to the entire product life cycle, advanced engineering design and clear idea presentation."*

Level: Established
Designer: Stefan Franken & Felix Jahn
Institution: Schwalbe - Ralf Bohle GmbH
Country: Germany

ChargePost

Charging on a new level, everywhere, ultra fast

ChargePost is a battery-buffered ultra-fast charging station that enables electric vehicles to be charged within minutes, independent of the power grid. Thanks to the integrated battery storage system, energy from the existing power grid can be stored continuously. As soon as a vehicle needs to be charged, it can be done with a charging capacity of up to 300 kW, regardless of the capacity available from the electricity grid. By integrating a PV system, for example, the self-generated electricity can be used for charging, which makes the solution particularly sustainable.

JURY: *"ChargePost can help support the acceptance of electromobility. Faster charging can lead to more people opting for this type of mobility."*

Level: Established
Designer: ADS-TEC Energy GmbH
Institution: ADS-TEC Energy GmbH
Country: Germany

Website: https://gp-award.com/en/produkte/chargepost
Press Kit: https://www.gp-award.com/downloads/chargepost.zip

GREEN FUTURE CLUB

Mobility

City Transformer CT-1

An adaptive EV that reclaims space in cities

An electric mini-vehicle with a shape-shifting chassis that allows seamless transformation between compact and full-size modes, tackling congestion and parking. Ergonomic cabin layout and quality materials ensure safety and comfort. The concept utilizes natural fibres, minimising waste and energy consumption. It produces zero emissions, reducing pollution. Compact mode decreases traffic congestion and carbon footprint. It caters to urban dwellers and businesses, with convenient storage and a sustainable approach. It envisions an eco-friendly urban mobility future that is greener, smarter and more accessible.

JURY: *"Vehicles do not belong in the city centre! This concept can help to declutter cities to create more space for greenery and for citizens, which leads to a better quality of life and to more resilience."*

Level: Start-up
Designer: Eyal Cremer, Nimrod Jack Eliezer, Jacob Sasse & Ron Inbar
Institution: City Transformer
Country: Israel

Website: https://gp-award.com/en/produkte/ct-1
Press Kit: https://www.gp-award.com/downloads/ct-1.zip

ARCHISONIC® Cotton

Fully circular sound absorption

Website: https://gp-award.com/en/produkte/archisonic-cotton
Press Kit: https://www.gp-award.com/downloads/archisonic-cotton.zip

ARCHISONIC® Cotton is a completely new sustainable solution made in Italy from recycled materials. The high-performance acoustic absorber can be returned to the production process, making the material completely circular. Available in a range of 24 curated colours, it not only absorbs sound but also adds a natural aesthetic to any room.

JURY: *"The raw materials – cellulose (by-product of the cotton industry) with clay – and the colours created with earth pigments from a century-old factory in Verona produce a beautiful natural aesthetic with a wonderful look reminiscent of stoneware. The final product has a very low energy consumption, is fully recyclable and can be returned 100% to the production process after end of life. A truly European product in terms of raw materials, manufacturing and marketing."*

Level: Established
Designer: Impact Acoustic
Institution: Impact Acoustic
Country: Switzerland

LOVR™

LOVR™ is a hemp-based leather alternative

LOVR™ is an acronym that stands for Leather-like, Oil-free, Vegan and Residue-based. As its name suggests, LOVR™ is a vegan material that can be used as a substitute for leather in various industries such as footwear, furniture, fashion and automotive. It is made from the residual fibres of industrial hemp cultivation. Unlike other artificial or vegan leathers, LOVR™ does not contain any petrol-based products. LOVR™ is a truly circular material since it is compostable and recyclable. The material can also be produced carbon neutrally (cradle-to-gate).

JURY: *"LOVR is a promising, plastic-free leather substitution using locally produced hemp fibres – one of the few that claim to be compostable."*

Level: Start-up
Designer: Lucas Fuhrmann, Montgomery Wagner & Julian Mushövel
Institution: Revoltech GmbH
Country: Germany

Website: https://gp-award.com/en/produkte/lovr
Press Kit: https://www.gp-award.com/downloads/lovr.zip

Infused Earth

Practice-based research on the 3D printing process with clay

Website: https://gp-award.com/en/produkte/infused-earth
Press Kit: https://www.gp-award.com/downloads/infused-earth.zip

Earth – used for thousands of years, durable, transformable and residue-free. This research project extends the material properties of earth through 3D printing, creating an unprecedented freedom of form that investigates attitudes, processes and properties. Applied in urban spaces, the bioreceptive printed clay elements create a habitat for countless organisms.

JURY: *"The principle of using clay in 3D printing tiles and construction-related projects is not entirely new, but it is necessary for the construction industry, which currently accounts for about 38% of global CO2 emissions. The fact that the project also promotes biodiversity, boosting ecological balance, is a more-than-welcome addition. This holistic design approach will ensure consistency and hopefully encourage others to develop new products in this way as well."*

Level: Student
Designer: Marianne Sellmaier
Institution: Burg Giebichenstein Kunsthochschule Halle (Saale)
Country: Germany

GREEN FUTURE CLUB

Packaging

Qwarzo® Coating Technology

The natural transition to plastic-free solutions

Website: https://gp-award.com/en/produkte/qwarzo
Press Kit: https://www.gp-award.com/downloads/qwarzo.zip

Qwarzo is an innovative company working on a new generation of high-performance materials and advanced, nature-based sustainability characteristics resulting from over 20 years of scientific research and process development. Qwarzo® is a silica-based coating that can be used to replace plastic and plastic films on paper, fabric, metal and other substrates. Thanks to its technological platform, it aims to become the new design standard as an alternative to materials deriving from fossil sources and the only answer effectively free of microplastics and plastic.

JURY: *"Qwarzo offers a plastic-free coating alternative that can be composted or biodegraded without compromising on quality - a real revolution for the packaging industry."*

Level: Established
Designer: Luca Panzeri
Institution: Qwarzo SpA
Country: Italy

GREEN FUTURE CLUB

Packaging

FibreStrap

FibreStrap – designed to replace plastic cable ties

Website: https://gp-award.com/en/produkte/fibrestrap
Press Kit: https://www.gp-award.com/downloads/fibrestrap.zip

FibreStrap is a sustainable cable tie made of primarily wood fibres. Our aim is to replace fossil-based plastic cable ties. FibreStrap is a patented solution made of long fibres from the Nordic woods. This creates a product with outstanding strength that is also recyclable. We have designed out waste and pollution (>85% CO2 reduction, >80% H2O reduction, >85% renewable source) to accelerate a move towards a circular bioeconomy. FibreStrap is replacing plastic cable ties in various applications, including packaging.

JURY: *"FibreStrap is a fantastic alternative to the plastic cable ties we all know and use. It has an appealing aesthetic approach, the handling is pleasant, the functionality is convincing and of course it is sustainable. A revolution in the industry."*

Level: Start-up
Designer: Folke Najjar, Sigrid Svedberg & Tobias Bergarp
Institution: EVLR International AB
Country: Sweden

GREEN FUTURE CLUB

Packaging

Carbon Cell

A carbon negative, non-toxic, biodegradable foam

We developed a novel material, Carbon Cell, as a replacement for polystyrene (which takes over 500 years to degrade and persists in the environment as toxic trash). Predominantly fabricated from biochar, Carbon Cell is a carbon negative, high-performance, biodegradable expanding foam. It exhibits competitive compressive strength, durability and excellent thermal insulation (benchmarked against other eco-style expanded foams). This makes it perfect for a diverse range of customers who require high-performance packaging for their products.

JURY: *"A very strong concept that hits the nerve of the times and impresses with its low weight, high compressive strength, exciting appearance and high functionality."*

Level: Student
Designer: Elizabeth Lee, Ori Blich, Eden Harrison & Juan Ignacio Rion
Institution: Royal College of Art
Country: United Kingdom

Website: https://gp-award.com/en/produkte/carbon-cell
Press Kit: https://www.gp-award.com/downloads/carbon-cell.zip

GREEN FUTURE CLUB

Personal Care

Dr. Bauer’s Zahnliebe

The sustainable revolution in dental and oral care

Website: https://gp-award.com/en/produkte/dr-bauers-zahnliebe
Press Kit: https://www.gp-award.com/downloads/dr-bauers-zahnliebe.zip

Dr. Bauer's Zahnliebe has set out to make a highly emotional experience out of the annoying duty of dental and oral care with innovative, sustainable products and a new conceptual design approach. The aim is to increase usage and the preventive effect, while at the same time having fun and improving dental health. The innovative packaging made of grass paper, toothbrushes made of straw, bristles made of castor oil and tubes made of wood reduces plastic to a prescribed minimum and thus reduces the use of water by 90%.

JURY: *"A well-done, humorous and attractive presentation of ecological dental care. It has the potential to appeal to new groups of buyers who previously had no connection to natural cosmetics."*

Level: Established
Designer: Lars Contzen
Institution: dentorado Handelsgesellschaft mbH
Country: Germany

REFILL ROLL-ON-DEO

Innovative, refillable roll-on deodorant

Website: https://gp-award.com/en/produkte/refill-roll-on-deo
Press Kit: https://www.gp-award.com/downloads/refill-roll-on-deo.zip

Our mission is 'Making the world refillable'. We develop refillable body care and have created an additional refill system with our REFILL ROLL-ON-DEO. The robust case can be refilled again and again. The deodorant itself is filled in 1.5 g lightweight pouches made of mono-material. This saves up to 95% plastic waste compared to conventional roll-ons. Our vegan deodorant, made in Germany, offers reliable protection against sweat odour thanks to its antibacterial and odour-inhibiting formula. Thanks to different colours and fragrances, there is something for everyone.

JURY: *"Good solution for a big waste problem. The design is nice, the name is great. Thanks to the different colours and fragrances, there is something for everyone."*

Level: Start-up
Designer: HOLY PIT!
Institution: Holy Pit GmbH
Country: Austria

GREEN FUTURE CLUB

Personal Care

Compodry

Disassembly through composting

The service life of small electrical appliances is getting shorter and shorter. In the recycling process, manual dismantling of these appliances is not worthwhile. Despite sophisticated technological processes, finite raw materials such as precious and special metals are lost. This study investigates the use of compostable materials in small electrical appliances using the example of a hairdryer. What if, at the end of a biodegradation process, only components made of recyclable materials remained that could be reused or collected separately?

JURY: *"This product impresses with its puristic design and innovative recycling approach, addressing a key sustainability challenge with compostable materials for electric appliances."*

Level: Student
Designer: Eric Geißler
Institution: Burg Giebichenstein Kunsthochschule Halle
Country: Germany

Website: https://gp-award.com/en/produkte/compodry
Press Kit: https://www.gp-award.com/downloads/compodry.zip

PASQUAL ARNELLA

Paper paste mannequins: the most sustainable ever

Website: https://gp-award.com/en/produkte/pasqual-arnella
Press Kit: https://www.gp-award.com/downloads/pasqual-arnella.zip

This is a paper paste mannequin, a true challenge in innovation both for the elements used – recycled paper and cellulose – and for its exclusive moulding technology. It embraces the circular economy from all sides: production process, materials used, supply chain and local manufacturing in Europe. The first full body mannequin was presented by Pasqual Arnella and Penther Mannequins at ISPO Tradeshow 2019 after a long journey of investigations, development, passion and above all, consistency (and lots of "you can't"). We are paper paste: shaping nature, moulding the future.

JURY: *"The entry provides an innovative use for waste paper in the creative industries in the form of mannequins for the fashion industry. Fashion and apparel needs to make significant sustainability changes to address major waste, water and social issues in the sector. This entry provides a solid example of a new way of thinking."*

Level: Established
Designer: Martí Pascual & Ramón Pascual
Institution: PASQUAL ARNELLA S.L.
Country: Spain

Sustainable Biocapsules

Transforming waste into trees

Website: https://gp-award.com/en/produkte/sustainable-biocapsules
Press Kit: https://www.gp-award.com/downloads/sustainable-biocapsules.zip

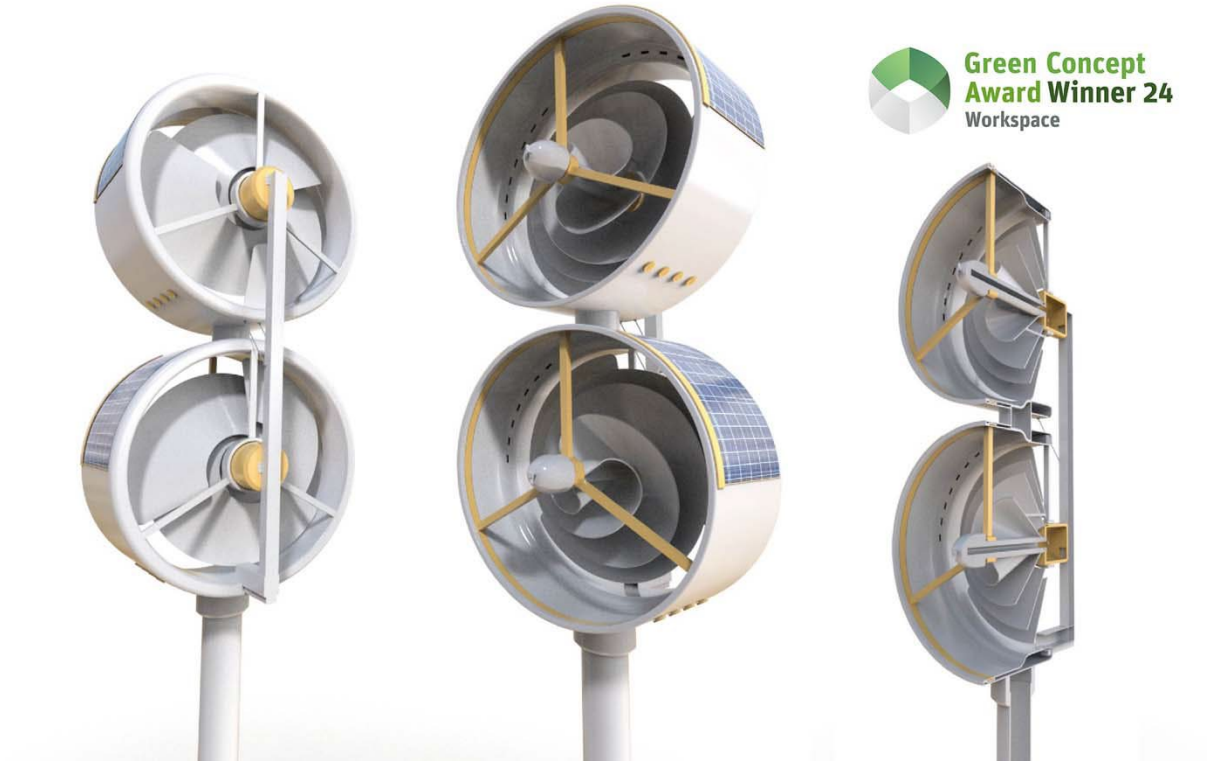
Leftovers from the production process of collagen capsules from the pharmaceutical industry and waste from the cellulose industry (sludge and husks) have been transformed into a new packaging material for seeds. Our biocapsules bring various benefits for the seeds within, ranging from protection from the sun and insects, nutrition for germination, and reforestation using an automatic dispersal device (drone). The technology contributes to ESG, promoting the circular economy and its applicability in reforesting degraded areas of the Amazon.

JURY: *"This product system includes waste recovery, product longevity, sustainable manufacturing, reforestation, socio-economic development of underserved communities and the exciting and fun use of new technologies (drones) for dispersion and planting. Beautifully thoughtful from many points of sustainability."*

Level: Start-up
Designer: Gabriel Estevam Domingos
Institution: Ambipar Environment
Country: Brazil

W-S Cooling

A cooling-enabled power generator



W-S Cooling is a PV-wind hybrid device installed in farms that integrates a misting system. It utilises MOFs material to absorb moisture from the air, and then transfers the waste heat from the solar panels through a thermal tube to the MOFs, causing it to evaporate and obtain water that is used by the misting system to cool down the crops and reduce heat damage. At the bottom, W-S Cooling has an energy storage system that provides electricity to households or farms in the area, forming a new type of agricultural-electricity symbiosis.

JURY: *"Wonderful conceptual design encompassing new materials and existing farming system actions and needs. While the complexity of this system is not typical of farming implementations, this is thoughtful, thoroughly considered, beautifully presented, blue-sky design."*

Level: Student
Designer: Zhen-Yan Zeng, Yi-Shan Zheng, Wen-Yeh Shiao Lin & Prof. Kai-Chu Li
Institution: Ming Chi University of Technology
Country: Taiwan

Website: https://gp-award.com/en/produkte/w-s-cooling
Press Kit: https://www.gp-award.com/downloads/w-s-cooling.zip

GREEN FUTURE CLUB

Audience Award

EVOdescale

Green limescale protection thanks to malic acid

Green Product Award Winner 24
Audience Award

Ecological and organic limescale and corrosion protection thanks to the patented ion sieve technology using malic acid. No electricity, waste water or chemicals are required. Properties ranging from private households to massive housing estates can be flexibly and modularly modified with our cartridge. Alongside salt, malic acid is the only certified and effective method with over 90% limescale protection. Magnets or ultrasound realise a maximum of 30% limescale protection in accordance with DVGW w512. Malic acid is biodegradable and compostable. It is made from local fallen fruit.

Level: Established
Designer: Fabio Hüther
Institution: Evodrop AG
Country: Switzerland

Website: https://gp-award.com/en/produkte/evodescale
Press Kit: https://www.gp-award.com/downloads/evodescale.zip

GREEN FUTURE CLUB

Audience Award

Urban Soundscape

Plant-based materials and smart reuse of waste

The designs are bio-façade panels and an urban amphitheater. It is suitable for architects, city planners and sustainability enthusiasts looking to address noise pollution and create immersive acoustic experiences in urban areas. The sustainability and innovation are in its materiality and fabrication techniques. We harness plant-based materials, repurpose waste like paper and use rice flour as a natural binder. The fabrication methods are varied and include 3D printing, CNC milling, extrusion and casting for versatile prototyping.

Level: Student
Designer: Sahda Salsabila & Xinrui Cai
Institution: University College London
Country: United Kingdom

Website: https://gp-award.com/en/produkte/urban-soundscape
Press Kit: https://www.gp-award.com/downloads/urban-soundscape.zip