Solutions for a sustainable world

GREEN SOLUTIONS AWARDS

BUILDINGS
DISTRICTS
INFRASTRUCTURES

With the support of

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[Construction21 logo]
GREEN SOLUTIONS AWARDS
Radically transforming our ways of life to reach carbon neutrality: such is the major challenge that we need to take on together before the end of the century. Beyond national commitments by States, local governments and companies invent new ways to build, renovate or manage cities.

The Green Solutions Awards were created by Construction21 to offer them a specific stage to show their achievements, to disseminate these pioneering and innovative solutions to the greatest number of professionals. Our creed? Inspire thousands of professionals and incite them to massively adopt more virtuous practices.

Invitation to the voyage

The 2017 edition of the Green Solutions Awards takes you on a trip to visit exemplary buildings, districts and infrastructures around the globe. Take notice of buildings located in tropical areas, they demonstrate that conciliating thermal comfort and energy sobriety in hot climates is possible. We salute the arrival of China into the Construction21 network, bringing 15 candidates to this year’s contest. Also, the competition opens to infrastructures, with renewable energies production, sustainable mobility systems, water management and more.

We would like to thank all the candidates, who contribute to the growth of our exemplary projects databases. Thank you also to our juries, media partners and sponsors. The Green Solutions Awards reach every year hundreds of thousand professionals thanks to them.

Christian Brodhag
President of Construction21

Social media dedicated to the sector, www.construction21.org disseminates news and best practices of sustainable buildings and cities for free through 11 national platforms in Algeria, Belgium, China, France, Germany, Italy, Lithuania, Luxembourg, Morocco, Romania and Spain, along with an international platform in English. The Construction21 network, with 1 million visits in 2017, aims to cover the whole world within the 5 years to come.
Since their creation in 2013 by Construction21, the Green Solutions Awards draw more candidates in every year. The 2017 edition counts 150 contestants:

The prizes reward the winners of 9 categories, including two Grand Prizes for Sustainable Cities and Sustainable Infrastructures.

Competing buildings are divided in 5 categories related to climate challenges and 2 Grand Prizes for outstanding buildings:

Originally, the contest promoted European projects only. Since 2015 and the COP21, other countries joined the competition. This year, contestants come from 19 different nationalities: Austria, Belgium, Brazil, Burundi, China, Croatia, France, Germany, Italy, Indonesia, Japan, Luxembourg, Mexico, Morocco, Senegal, Spain, Tanzania, the United Arab Emirates and the United States of America.

If those competing buildings, districts and infrastructures are indeed pioneers of sustainable construction and cities, they nonetheless prove that the trend is expanding to all continents: no matter the climate, no matter the local cultures, national politics and policies or awareness within populations... professionals act to inhabit, work and live differently.

The Green Solutions Awards and Construction21 exist to offer these solutions great visibility toward the professional public, to inspire other experts on the web. The contest generates more than 1 million views every year since 2015 and more are expected in 2017 and the years to come.

Will you embark on this adventure in 2018?
The Cité du Centenaire in Charleroi is an urban renewal project and the transformation into an ecodistrict of a 1959 neighbourhood inspired by garden cities. While moving the Cité du Centenaire toward sustainability, this project also had to protect and rehabilitate an architectural heritage. The sustainability approach integrates ecomobilities and soft transportation modes, energy efficiency through passive renovations and constructions of housings, the drastic reduction of the district carbon footprint while favouring social bonding and interactions within the area.

To limit the environmental impact of the operation, demolition waste was reused and recycled, after sanitizing the buildings from all asbestos. All construction work included as much as possible recyclable and low emission materials.

This ecodistrict naturally aims to respond to its inhabitants’ needs who were involved in the operation from the design phase. Children from the surrounding schools also participated in an art project to dress one of the buildings’ gable. Mineral wool panels were coloured in the many tints collected in the demolished building to offer a genuine testimonial of past lives in the district. This piece of art now gives a strong identity to the Cité du Centenaire ecodistrict.

**Virtual City of Zero Energy House**

**Urban sprawl / Tomiya, Japan**

**Contractor:** Sekisui House, LTD

**Project holder:** La Sambrienne  
**Designer:** Startech Management Group
3 questions for VALÉRIE DAVID,
Director of Innovation and Sustainable Development

1 – Why did you decide to support the Green Solutions Awards?

Open innovation becomes strategic for major groups who are used to innovate from inside. By opening to other actors and creating a win-win ecosystem, our position on the market is accelerated and we respond better to the emerging B-to-B and B-to-C needs. Environment and sustainable development accelerate the transformation of our economic model of products “bought, consumed, thrown away” toward circular economy and services. Eiffage believes and promotes internal innovation and open innovation, as part of the company’s DNA. Two funds were created by Eiffage in January 1st, 2017 to accelerate the access to the markets for innovations. For the same reasons, Eiffage supports Construction21, a dissemination tool for our sector’s innovation, by sponsoring the Grand Prize dedicated to Sustainable Infrastructures in the Green Solutions Awards.

2 – What are, for your company, the main challenges related to the fight against climate change?

Everyone agrees that public works, construction and transports are enormous consumers of materials, energy and fossil fuels. The news reminds us on a regular basis: increase of climatic variations and exceptional weather events, fight against floods and rise of the seas, exceptional draughts are the more and more visible consequences of climate change. We are aware of these strategic challenges for the planet and Eiffage is convinced we are at the core of the solutions.

3 – What are your solutions, in your field, to face these challenges?

From 2008 to 2012, the work of Phosphore, prospective lab on sustainable cities, gathered the professionals of the Group and outside experts to build new prospectives by imagining challenges by 2030. We collectively imagined and proposed solutions around these 4 priorities:

- Reduce consumption of carbon materials
- Design sober buildings
- Promote transports and energy production methods with less GHG emissions
- Build sustainable cities and responsible, efficient and innovative ecodistricts

The exercise gave us a systemic vision. It also led us to create the High Quality of Life, that guides the design and implementation of the Group solutions at city level (efficient buildings, ecodistricts, eco-mobility solutions, etc.).

Eiffage, 3rd major concession-construction company in France (64,000 collaborators, 100,000 projects, 14 billion € in revenues), operates in construction, infrastructures, energy and concessions. From Phosphore, prospective lab on sustainable cities, to Smartselle, a multicertified and pioneering ecodistrict, Eiffage innovates to build a sustainable future and can be defined as a global contractor for sustainable cities, from responsible infrastructures to factories of the future.
Filtering Gardens® is a biotechnology developed by Phytorestore. It uses humid ecosystems and phytoremediation to clean up waters and make them reusable again while recreating natural green spaces.

These filtering gardens are made of a series of pools filled with special substrates topped with local plants. These plants are carefully selected. Grey and rain waters flow through the substrates and the biological interactions of the roots treat the waters, without any addition of chemical, bacteriological, biological nor artificial compound. The efficiency of the process relies only on natural properties and human knowledge of that process. Thanks to this process, sewage networks receive less water to treat.

The esthetic result is a lot of green, with a wide range of indigenous species of plants favouring the development of local biodiversity while improving the quality of water in the region and contributing to cooling the microclimate.

Filtering Gardens® is highly replicable and adaptable to a large number of places and it can help the development and protection of their specific biodiversity. It also contributes to raise awareness among the populations on this topic through educative programmes. Its carbon footprint is very low and even generates carbon credits.

Contractor: L’Oréal
Construction company: Afonso França Engenharia
Manager/Dealer: Phytorestore Brasil
As an independent international family group in development and construction, Rabot Dutilleul currently counts among the 10 biggest French actors in construction. Founded in 1920, the company developed skills all along the years in complementary sectors related to the construction world, hence gaining almost full control over the real estate chain of value. Rabot Dutilleul cultivates values based on collective performance with nearly 1,750 employees and on long-term relationships with its partners. The Group is present in France, Belgium, Germany and Poland.

3 questions for RODOLPHE DEBORRE, Innovation and Sustainable Development Director

1 – Why did you decide to support the Green Solutions Awards?

The Rabot Dutilleul Group places sustainable development at the core of its strategy, “for real”. We want to provide construction and renovation projects that make territories more environmental friendly through specific know-how and techniques. Following that spirit, Rabot Dutilleul chose to support the Green Solutions Awards and in particular the sustainable renovation category.

2 – What are, for your company, the main challenges related to the fight against climate change?

Construction does have impacts: energy consumption, greenhouse gas emissions, decline of biodiversity, increase of toxic elements, etc. However, unlike in other sectors like fishery and air transport, solutions exist for most of the issues. We consider it would be a crime not to implement them. Rabot Dutilleul structures its development on a strong environmental approach: design and construction of low energy buildings (BCC), HQE certified projects, CO2 assessment of its activities and CSR action plans. This approach allows the Group to renew its offer, while always watching its markets and environment.

3 – What are your solutions, in your field, to face these challenges?

Sustainable construction requires to manage energy efficiency in buildings. Rabot Dutilleul didn’t wait to follow this approach, as many projects can testify, and pushes it further to achieve excellency with the expertise of its Pouchain subsidiary, specialised in electric and climatic engineering. The Group deploys many processes, for example (but there are many others!) to push forward the eco-design in the energy industry, without ever losing sight that the best building is the one in which the occupants feel the best.
The Project 55 is a zero energy refurbishment of a heritage list mansion, within the centre of the city of Mons. The project combines extensive insulation, optimal air tightness, heat recovery ventilation and controlled constructive details. Additionally, a specifically dimensioned photovoltaic installation has been implemented to compensate the energy consumption of the building.

A dynamic simulation has been commissioned to evaluate the risks of overheating and the means to avoid them, through solar protection and free-cooling.

Beyond the high level of energy efficiency, the Project 55 integrates eco-materials (wood wool, cellulose, C2C certified plaster, FSC wood, clay-based coatings). Life cycle analysis was decisive in the choices made to limit the carbon footprint of the building.

The use of these materials also contributes to the health and comfort strategy of the building. The well-being of its users and visitors is a major goal for the Project 55, as it shelters the offices of the Homeco company and serves as a training facility in sustainable development and as a visitor center to disseminate best practices.
The Barrisol® Normalu® company, founded in 1967, is the world leader of stretch ceiling. It combines tradition, innovation, respect for the environment and technology to offer you the best walls and stretch ceilings.

Our products are rated A+ (very low pollutant emissions) and conform to the highest European and international standards. They are also certified “French Origin Guarantee”. Barrisol® products are 100% recyclable. Our know-how was recognised in 2015 by the label “Living Heritage Company” (Entreprise du patrimoine vivant – a French government label) and in 2014 by the Décibel d’Or, a prize received for our “Acoustic Light®”.

3 questions for JEAN-MARC SCHERRER,
Président du Groupe Barrisol® Normalu® SAS

1 – Why did you decide to support the Green Solutions Awards?

Since the foundation of the company, 50 years ago, we became aware of the conservation and respect of the environment. In the heart of the Hardt forest, in Alsace, our head office is surrounded by green areas that we strive to preserve.

Respect for the environment is one of Barrisol’s priorities. Today, it is one of our main vectors to convey our company policy. Participating in the Green Solutions Awards enables us to assert that it is possible to combine tradition with innovation, technology and protection of our natural resources.

Barrisol® system was imagined to use 20 times less raw materials than a standard product. All the Barrisol® sheets and profiles made of aluminium are 100% recyclable.

As a member of the English, Canadian and American Green Building Councils, Barrisol® started to commercialise the Barrisol Recycled® line in 2007. We combined innovation and respect for the environment: Recycled® sheets are manufactured from old Barrisol® sheets.

We use recyclable materials and encourage our partners and customers to join us in this endeavour.

2 – What are, for your company, the main challenges related to the fight against climate change?

Using fewer natural resources and less energy. The optimisation and the recycling of our products contribute to the reduction of waste.

3 – What are your solutions, in your field, to face these challenges?

We take different actions to preserve the planet, like:

- Setting up a process to recycle old sheets,
- Recycling waste of sheets and aluminium profiles,
- Providing employees with carpool vehicles and shuttles,
- Setting up a waste collection system for recycling.

Installing time switches and presence detectors to ensure proper management of our power consumption.
This PassivHaus and BREEAM certified project was designed to demonstrate the NZEB (Net Zero Energy Building) know-how of the BSolutions architecture and engineering agency.

Built on 3 floors, the BSolutions building offers autonomy to each floor through the implementation of 3 ventilation systems with their own power supply.

The optimisation of energy efficiency is achieved thanks to the architectural design, the location and orientation, and the compacity of the building. BSolutions is half buried to benefit from a first natural thermal insulation and the ground inertia. Choice of orientations was crucial, for natural lighting all year long as well as to avoid summer overheatings, along with the implementation of photovoltaic panels that cover 60% of the energy needs of the building.

Beyond the energy efficiency, health and comfort of the users were at the centre of this project through the guidance of BREEAM and PassivHaus approaches. Workspaces were designed to be full of light, and built with healthy materials. Acoustics were extensively studied for the best comfort: adapted floorings, acoustic elements in offices and creation of work cells equipped with acoustic glass partitions.
Major player in construction chemicals, PAREX is a world leader, specialist of dry mix, providing solutions for the building community and acting in 3 fields: facade protection and decoration, tile setting and flooring systems, waterproofing systems and technical solutions for concrete and civil engineering.

We operate in 21 countries with 69 production sites and bring together 4,100 employees worldwide. We focus on developing our activity over the long term and aim to bring innovative solutions and products for sustainable construction. Our ambition is to be the preferred partner on our markets and in the local economic and social structure around our sites.

3 questions for LOUIS ENGEL,
Safety and Sustainable Development Director of PAREX

1 – Why did you decide to support the Green Solutions Awards?

Our Sustainable Development program “Building Responsibly” is based on 4 commitments: innovating for our clients, preserving the environment, taking care of our employees, anchoring our activities locally. These commitments are fully in line with the partnership we have with Construction21, whose contest, the Green Solutions Awards, honours the most innovative solutions in sustainable construction. Convinced that this social media will help to effectively develop and share solutions for a more sustainable construction, we believe it is essential to be one of its partners.

2 – What are, for your company, the main challenges related to the fight against climate change?

The building energy consumption represents nearly a third of the total consumption worldwide and is responsible for almost a quarter of the greenhouse gas emissions. We believe that all players in the construction chain must be mobilized and we have decided to play our part in this revolution, which is not only a technological, but also a cultural one.

3 – What are your solutions, in your field, to face these challenges?

For several years in France and more recently in the United States, in China, in Spain, in United Kingdom and in Chile, we have taken an active role in improving the thermal efficiency of buildings by developing our External Insulation Finishing System (EIFS) offer. To go further in our commitment to fight climate change, we initiated in 2016, following the Paris Agreement, our Climate Program, a 3-step voluntary approach which consists of:

- measuring the greenhouse gas emissions by end of 2018 in all countries where we operate,
- increasing our efforts to reduce these emissions,
- adapting and mitigating impacts of some residuals emissions by contributing to develop agroforestry programs in 11 countries around the world, close to the communities where we operate.
This positive energy building shelters a supermarket at the ground level and offices on the upper floors. The contractor wanted this project to be exemplary. This was achieved through the combination of mature technologies for a very high level of energy efficiency at a low cost, while providing high resilience and reliability. The thorough energy planning of the building was also key to this project as it integrated all needs of the building, from the systems to the users. Among the solutions implemented in this project, some are worth pointing out:

• An ultra efficient envelope, designed very early in the project,
• A urban heating network fueled by the combustion of waste,
• Low temperature heating floors,
• Ventilation/Cooling systems with adiabatic evaporation,
• Photovoltaic panels on the roof to cover every energy needs,
• The fine tuned building management through a BMS.

Here, the energy performance of the building is not achieved against the user. On the contrary, office spaces were designed to be modular and to adapt to the needs of the tenants. The BMS uses usage and occupation scenari along with sensors to regulate ventilation and heating.
The ADEME contributes to the implementation of public policies for the environment, energy and sustainable development. To help companies, local governments, public authorities and the general public, our agency provides them with expertise and council.

We also help funding research and implementation projects in all our fields of intervention.

3 Questions for BRUNO LÉCHEVIN,
President of ADEME

Sustainable construction in tropical areas particularly matters to ADEME, so this is no coincidence if we are involved in the Global Alliance for Buildings & Construction launched during the COP21, where we support an “initiative for low carbon buildings in hot and tropical climates”. The Alliance gathers 25 partnered countries to deploy bioclimatic buildings on a broad scale.

This is a crucial challenge as today, more than 40 % of the population lives in intertropical areas, in countries where energy efficiency standards are often inexistent. Hence, we observe excessive energy consumptions, notably because of the use of air conditioning to remedy the heat discomfort.

That’s why we decided to support the creation of a specific category in this contest: one dedicated to energy in hot and tropical climates, to highlight methods, materials and solutions adapted to these specific conditions and to the construction of exemplary buildings.

We are also creating a special MOOC dedicated to sustainable construction under tropical climates. This MOOC will be first and foremost addressed to building professionals from French speaking African countries and from French overseas territories, with a first season scheduled for February 2018.
This school of 12 classes on the Reunion island (Indian Ocean) demonstrates the specificity of sustainability approaches under tropical and subtropical climates. This approach uses the PERENE calculation tool. The building proposes a bioclimatic architecture to structure the layout of the volumes and the technical choices of the project. Among the fundamental choices made to obtain a bioclimatic building and an efficient energy management are:

• Protection against dominant winds on the East and South-East sector and the protection of the courtyards,
• A broad sole umbrella roof to reinforce the solar and weather protection,
• Extended covers of the courtyards (greater than required in the programme) for a greater comfort for users,
• A thought through solar protection and specific for each glass bay orientation,
• The choice of a “dry” wooden architecture, a relevant answer when it comes to hygrothermal comfort,
• General layout of spaces to optimize the through-and-through ventilation,
• The management of infiltrated rain waters,
• Neat gardens, to add to the hygrothermal and visual comforts, and to filter dusts,
• Optimization of electric systems to obtain positive energy building.

Solar protections bath spaces in a pleasant light while providing true hygrothermal comfort to the whole school.

Contractor: City of Saint-Pierre
Designer: Antoine Perrau Architectures
Consultancy agencies: Leu Réunion, GECP, BET AIR, CREATEUR
BNP Paribas Real Estate, subsidiary of BNP Paribas and one of the leading real estate services companies on an international scale, is offering a full range of services that span the entire life cycle of real property: promotion, transaction, advisory, valuation, property management and investment management. With 3,900 employees, BNP Paribas Real Estate offers its clients its knowledge of local markets in 36 countries (16 direct locations and 20 more through its network of alliances that now represents more than 3,200 people) with more than 180 offices.

3 questions for CATHERINE PAPILLON,
Global Head of Sustainable Development/CSR

1 – Why did you decide to support the Green Solutions Awards?
The Green Solutions Awards is a contest that takes into account the different topics of sustainable development we are focusing on: social, energy, environmental and economic performance; well-being of occupants; integration of the different types of buildings into the surrounding districts; energy solidarity between buildings, etc. Furthermore, the Green Solutions Awards highlight concrete and innovative solutions that all the industry can benefit from.
We also particularly appreciate the high standards for the recruitment process of participants, as well as the quality of the jury, which includes real estate experts.
For all these reasons, and because we, BNP Paribas Real Estate, consider it is our responsibility to bring to actors of the real estate sector our vision for the future sustainable city, we support Construction21 and the Green Solutions Awards for the second year in a row.

2 – What are, for your company, the main challenges related to the fight against climate change?
The building sector is responsible for 40% of worldwide greenhouse gas emissions. For this reason, BNP Paribas Real Estate is committed to its stakeholders to integrate climate change issues into its own processes and activities.
Our ambition is to contribute to the development of sustainable cities, by offering products and services that are environmentally friendly, energy efficient and respectful of the health and well-being of its occupants.

3 – What are your solutions, in your field, to face these challenges?
We develop solutions in our different business areas to anticipate and face environmental challenges, but also to respond to the new demands and habits of our clients (whether they are investors, companies, individuals or local authorities). It allows us to play a key role in the urban transition.
As an example, the BNP Paribas Real Estate global business real estate production is environmentally certified. Beyond certifications, BNP Paribas Real Estate provides for the implementation, as part of the Call for innovative urban projects “Réinventons Paris”, with its winning project Ternes, of a connected energy system between offices and housings (smart grids), of a car sharing solutions allowing electric vehicle pooling, and of urban garden terraces, among other solutions.
The Maison des Yvelines, an administrative building coupled with some housings, aims to disseminate an ancestral technique perfectly adapted to the Sahel region: the Nubian Vault. This 3500-year old construction technique was resurrected and reinvented by the Association La Voûte Nubienne. It only uses mud bricks and earth-based mortars. These natural materials provide thermal inertia, acoustic comfort and durable protection against the weather. In addition, the exclusive use of local resources drastically curbs the carbon footprint of the building.

The Nubian Vault technique also offers two more benefits: low cost and great replicability. It is very easily taught, as it was done for this building, with the training of local workers on site.

Last but not least, the Nubian Vault technique presents a large range of architectural possibilities and extended modularity. It can be used for housings, offices, healthcare centers, in various styles. Also, extensions can be easily added to the building.

The Maison des Yvelines presents a simple, replicable and economical solution to tackle the challenges of global warming under hot climates, while giving one of the best examples of frugal resources management.

**Contractor:** Conseil Général des Yvelines  
**Designer:** AL-MIZAN Architecture  
**Construction Manager:** ONG Le Partenariat  
**Technical expertise:** Association La Voûte Nubienne  
**Structure:** Habitat Moderne
Ampère E+, a deep refurbishment and restructuration of a 1985 office building, is a breakthrough for smart buildings. This project combines smart technologies, high level energy efficiency and users’ comfort. The multiple certifications for this building are a strong testimonial of its sustainability and innovation: HQE Excellent, BREEAM Very Good, BBC Effinergie Rénovation, Well Core and Shell, Well Interiors, and Cradle to Cradle label.

The intelligence of Ampère E+ resides in how it integrates technologies in an open innovation approach with various technical partners.

The building is smart for its users: the next generation BMS and the mobile application Ampère allow users to control lighting and temperature in their work space. The app also serves as an access pass, a payment system for the company restaurant and shows available meeting rooms.

Ampère E+ is the first building in the world equipped with a system of energy production, management and storage, sharply fitting energy needs and behaviours. The building generates energy through solar panels on the roof and energy recovery on elevators. This energy is then stored in used car batteries, a solution supported by the ELSA European programme (Energy Local Storage Advanced system). The discharged energy represents between 5 and 15% of the building consumptions allowing Ampère E+ to temporarily live off the grid depending on the needs.

**Office Building / Courbevoie, France**

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The CNPC Headquarters is a vast tertiary multifunction complex of 22 floors featuring offices, conference halls, restaurants, sports centres and car parks. It hosts an average of 3,500 people per day. Health and comfort were put at the centre of its design, following the requirements of the Chinese standard: Healthy Building.

This approach is based on the thorough study of 7 factors: air, water, diet, comfort, physical exercise, social interaction and access to services, therefore establishing a very wide definition of health and comfort provided by a building to its users.

Interior air quality of the CNPC Headquarters, a very important matter in China and especially in Beijing, is optimised through a double purification system, both active and passive, coupled with thorough monitoring. Water is also processed and treated through a very efficient purification process.

The well-being of the users of a tertiary building can also be addressed through healthy diet. With 3,500 people working every day in this building, the CNPC decided to provide healthy restaurant services based on the rhythm of seasons, the weather and the principles of Chinese medicine. This healthy diet can be completed with sport activities practiced in dedicated spaces available in that same building.

Contractor: China Petroleum Building Management Committee Office
Facility manager: Zhongyou Soluxe Property Management Co., Ltd Beijing Branch
INTERNATIONAL JURIES

President of the jury Districts/Infrastructures

Carlos MORENO
Scientific Committee of the International Forum of the Human Smart City “Live in a Living City”

Jurors

David ALBERTANI
R20 - Regions of Climate Action

Miriam BADINO
Bonn Center for Local Climate Action and Reporting (carbomn Center), ICLEI World Secretariat

Inès DAHMOUNI MIMITA
MD architectes

Delphine DANAT
Manexi Fédération CINOV

Maita FERNANDEZ-ARMESTO
Barcelona City Council

Julien L’HOEST
Energie et Environnement ingénieurs-conseils S.A.

Xun LI
China Academy Urban Planning and Design (CAUPD)

Clare WILDFIRE
Mott MacDonald

President of the jury Buildings

Paula RIVAS HESSE
Green Building Council Spain (GBCe)

Jurors

Mohammed AHACHAD
Faculté des sciences et techniques de Tanger

Arturo ALARCON
Spanish Institute of Cement and its Applications (IECA)

Lionel BOUSQUET
Epicuria Architectes

Youssef DIAB
École des ingénieurs de la Ville de Paris (EIVP)

Jean-Marie HAUGLUSTAINE
Université de Liège, Énergie et Développement durable

André LECOMTE
Hélium3 Architectes

Arlin MORALES LEMUS
Green Planet Architects

Lionel TOUMPSIN
Neobuild S.A.

Jun WANG
China Academy of Building Research (CABR)

Brahmanand MOHANTY
Asian Institute of Technology (AIT, Thailand)

Steve WLEYLAND
Team31 S.a.r.l

Qingqin WANG
China Academy of Building Research (CABR)

NATIONAL JURIES

Belgium
Marny DI PIERTRANTONIO - Plateforme Maison Passive PMP
Jean-Marie HAUGLUSTAINE - Université de Liège, Énergie et Développement durable
André LECOMTE - Hélium 3 Architectes
Nicolas SPIES - Confédération Construction Wallonie
Jacques TELLER - Université de Liège, Urbanisme et Aménagement du territoire

China
Deci DAI - Architectural Design and Research Institute of TsingHua University
Xun LI - China Academy of Urban Planning & Design
Yanhu LIU - China Architecture Design Group
Chong MENG - Green Building Research Center
Jun WANG - China Academy of Building Research
Qingqin WANG - China Academy of Building Research
Youwei WANG - China Green Building Council
Jie ZENG - China Academy of Building Research Architectural Design Institute

France
Cédric BOREL - IFPEB
Lionel BOUSQUET - Epicuria Architectes
Olivier BRANE - Ecocopro
Franck BRASSELET - SARL Jungle Architecture Group
Frédéric BRUYÈRE - Eco-Stratégie
Jean-Mathieu COLLARD - CNOA
Jean-Yves COLAS - Studinnov
Delphine DANAT - Manexi, CINOV
Antoine DAVAL - Efficacity
Sébastien DELPONT - Greenflex
Youssef DIAB - École des ingénieurs de la Ville de Paris (EIVP)
Alain DUBRUille - Consultant construction durable
Olivier DUPONT - Centre technique de matériaux naturels de construction (CTMNC)
Laurent-Marc FISCHER - Architecture studio
Stéphanie GAY-TORRENTE - Reed Expositions France
Jean-François GRAZI - Business Immo
Philippe HERBULOt - Nepsen
Périne HUGUET - Atelier 13
François-Xavier JEULAND - Fédération Française de Domotique
Idriss KATHRADA - NovaSIRHE
Alain KERGOAT - Urban Practices
Martina KOST - B4E
Pierre-Yves LEGRAND - Novabuild
Guillaume LOIZEAUD - Reed Expositions France
Charlotte MIRIEL - Sintéo
Philippe NUNES - Xpair
François PELEGRIN - Architecture Pelegrin
Jean-Louis PERALTA - Ergonomie Conseil, CINOV
Pierre PERROT - Ingeko Energies
Jacques PEROTTO - Société Agora
Brigitte PHILIPPON - Philippon-Kalt sarl d’architecture
Katell PRIGENT - KAPCaen
Gérard SENIOR - AETIC Architectes
Dominique SEVRAY - Planète Surélévation
Fabien SQUINAZI - Observatoire de la qualité de l’air intérieur
Hugues VÉRITÉ - Gimélec

Italy
Francesco DE FALCO - Freelance
Marco D’EGIDIO - Associazione Nazionale Costruttori Edili (Ance)

Luxembourg
Julien L’HOEST - Énergie et Environnement ingénieurs-conseils S.A.
Francis SCHWALL - Neobuild
Christian TOCK - Ministère de l’Économie
Lionel TOUMPSIN - Neobuild
Steve WEYLAND - Team31 s.a.r.l

Morocco
Mohammed Ahachad - Faculté des sciences et techniques de Tanger
Amine KABBAJ - Architecte
Abdellatif TOUZANI - École Mohammadia d’ingénieurs

Spain
José ANTONIO TENORIO - CSIC – I.Torroja – CTE
Ferran BERMÉJE - Itec
Maíta FERNÁNDEZ-ARMESTO - Barcelona City Council
Patxi HERNÁNDEZ - Tecnalia
Ignasi PÉREZ ARNAL - BIM Academy
Paula RIVAS HESSE - Green Building Council España
Bruno SAUER - Green Building Council España
Josep SOLÉ - URSA
Gerardo WADEL - Societat orgànica
Ignacio ZABALZA BIRBAIN - CIRCE
For 25 years, THEMA is the exclusive importer for Belgium and the Grand Duchy of Luxembourg of thermal equipment from the best European manufacturers: REMEHA (gas), WINDHAGER (biomass), SONNENKRAFT (solar), CORDIVARI (storage tanks), KROLL & MHG (domestic fuel), ICI CALDAIE, etc.

As a family company, THEMA s.a. stands out for its competence and the versatility of its engineers serving engineering consultancy agencies, technical services in administrations and all kinds of installers.

PIERRE COLLETTE,
Chief executive officer

Why did you decide to support the Green Solutions Awards?

THEMA is a pioneer in the sector, so we naturally chose to support the innovation contest organised by Construction21. When THEMA s.a. was founded by Pierre Collette in 1989, offering high efficiency and low NOX emissions boilers was not what the market wanted. Two decades later, the challenge is won, THEMA is leader.

What are, for your company, the main challenges related to the fight against climate change?

In 2017, the energy sector is mutating. That is because people are more and more aware that reducing our energy needs is vital on the short term for our planet.

The optimal use of non-carbon, alternative and renewable energy from different sources becomes self-evident. In consequence, equipments constantly evolve and technology get sharper and sharper.

What are your solutions, in your field, to face these challenges?

We propose full solutions to our customers, from a broad panel of high quality and technically and environmentally innovative equipments (made in Europe). For example, THEMA s.a. designed a multi-energy heating and hot water installation in a jail of 312 convicts. This system includes heat recovery in refrigeration units, electricity production by cogeneration and heat production through 160 square meters of solar panels.

We also assist our customers in choosing products, with technical documentation, by studying the project before installation, training and product support.
IN 2018, JOIN THE GREEN SOLUTIONS AWARDS

► YOU ARE:
A contractor, an architect, an engineer, a developer, a construction company, an industrial...

► BECOME: Candidate

► HOW:
Publish a case study describing your most innovative projects.

► YOU ARE:
A company committed to create more sustainable buildings and cities.

► BECOME: Sponsor

► HOW:
Your company highlighted to every step of the competition’s communication plan (print, web, events).

► YOU ARE:
A head of network in the building sector or in the sustainable city sector of your country (media, fair, association, university...).

► BECOME: Media Partner

► HOW:
Your logo is featured on every communication material of the competition in exchange for the mobilisation of your network.
In 2017, 150 buildings, districts and infrastructures from all 5 continents and all latitudes competed for the Green Solutions Awards. 19 countries were represented.

Contest powered by the national chapters of the network

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