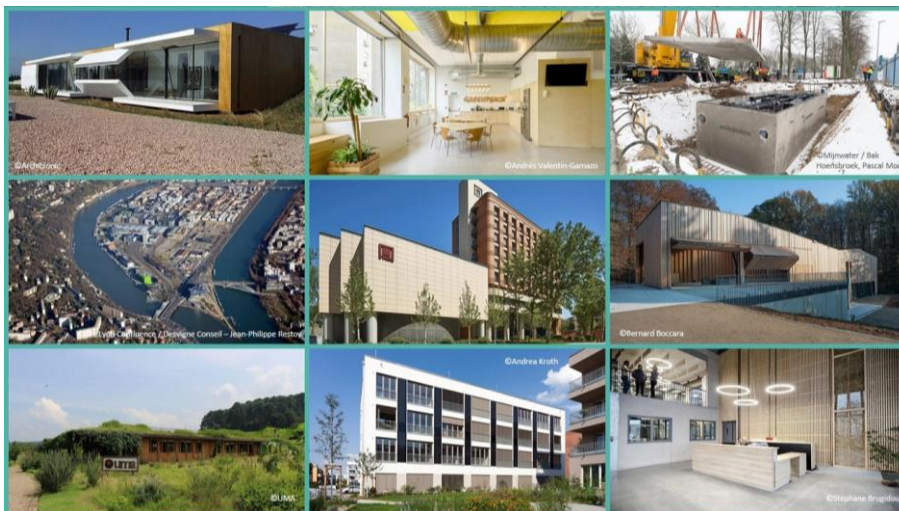




Green Solutions Awards 2019 international winners: 22 sustainable projects to inspire the profession

Turn the spotlight on the international winners of the Green Solutions Awards 2019 edition! Twenty-two exemplary buildings, districts and infrastructures were rewarded by the Construction21 network after nine months of competition, first nationally and then internationally. The Awards ceremony took place on the 4th of November at Batimat, one of the main trade shows for the construction sector in France.

These sustainable projects were the heroes of a ceremony bringing together pioneers of sustainable construction from all over the world. They will continue to benefit from high visibility in the coming months, as our objective is to bring their solutions to the market to reduce carbon emissions. Discover them, adopt them, share them!



With the support of



The final: an international event

The Green Solutions Awards have the particularity of being both a national and an international competition. The first phase, organised in each country hosting a Construction21 platform, brought out around fifty champions selected by juries of experts and internet users. With this victory came another one: the national winners also became international finalists.

New **jurors are then recruited, at a global level**, to determine the champions of champions... and define, with their choice, the **messages they wish to send to the global market**. [Discover the juries](#)

The winners are announced at a ceremony attended by more than 150 professionals from all over the world. Usually held during the COP, the 2019 final took exceptionally place at **Batimat**, as the opening event of this international trade show for construction.

The **mobilisation was strong: delegations from China, Morocco, Egypt, Brazil, the Democratic Republic of Congo and many European countries made the trip**.

After convincing **37 different countries to participate** in the Green Solutions Awards, this competition **demonstrates that the fight against climate change is mobilising professionals globally**.

Facing the climate emergency: act quickly and strongly

The 2019 edition is the proof of the rising influence of the Awards. First, with the commitment of **192 candidates from 37 different countries worldwide**, compared to 143 and 16 in 2018, and about **100 media partners**. But also with the greatest variety of [buildings](#), [districts](#), and [infrastructures](#) represented; we noted the participation of condominiums, schools, sport complexes, road/mobility projects, etc.

Through the study of these projects, both nationally and internationally, Construction21 has highlighted a number of **trends** that are representative of what is currently being designed in the world of construction and cities. Among them, we can mention **reuse and recycling**, the **use of local products** and **biobased materials**, **low-tech**, and the **return of nature in the city**. [Discover the 2019 trends](#)

Construction21 once again demonstrates its **ability to mobilise sustainable players**, to **showcase existing projects that deserve to be replicated on a large scale**, to **provide concrete sources of inspiration** so that **all professionals in the sector can radically change the way they shape buildings, cities and territories**.

A contest to promote, disseminate and inspire



Twenty-two projects were rewarded – **four Grand Prizes, five Prizes, and thirteen special mentions**. In addition to the **online visibility** given to each candidate throughout the competition, the winners benefit from a particular highlight during the ceremony and a slot to express in front of an audience of professionals, composed of **potential customers or partners**.

A **brochure** presenting the winners of the 2019 edition was printed in **6,000 copies and revealed at Batimat**. Available in **English, French, Chinese and Spanish**, it will be distributed at partners events or trade fairs throughout 2020. [Download the brochure](#)

Each of the Grand Prizes winners also won a **video presenting their project**; these videos will be widely **shared on the web and social media**.

These supports are part of a **vast (online and offline) global communication plan set up by the Construction21 network and relayed by its hundred of partners across the world**.

Discover the winners below!



#GreenSolutions Awards

Discover the “Districts” winners



Sustainable District Grand Prize



Lyon Confluence / Lyon, France

- Project holder: **Société Publique Locale Lyon-Confluence**
- Developer: **SPL Lyon Confluence**
- Consultancy agency: **Enertech**
- Assistance to the contracting authority: **TRIBU; Hespul**
- Other: **Métropole de Lyon**
- Funding: **European Commission**

[Watch the video](#)

Special
Mention



Smarter Together Vienna Simmering / Vienna, Austria

- Project holder: **City of Vienna, MA 25 Urban Renewal**
- Developers: **BWSG ; Stadt Wien, Wiener Wohnen**
- Operators: **Wiener Stadtwerke; Kelag Energie und Wärme ; Österreichische Post AG ; Austrian Institute of Technology (AIT) ; Sycube; Siemens Leberstraße**

Special
Mention



Pazhou West Area /

Guangzhou, China

- Builder: **South China University of Technology**
- Project holders: **Administration Committee of Pazhou Exhibition & Convention, Headquarters and Internet Innovation Industry Cluster, Guangzhou**



#GreenSolutions Awards

Discover the “Infrastructures” winners



Sustainable Infrastructure Grand Prize



Mijnwater /

Heerlen, Netherlands

- Project holder: **Mijnwater BV**
- Builder: **Mijnwater BV**
- Manager / Dealer: **Mijnwater BV**

[Watch the video](#)



Changyuan River Wetland Natural Park /

Qixian, China



- Project holder: **Qixian District**
- Construction managers: **Phytostore; IPPR**
- Manager / Dealer: **Management Committee of the Changyuan River Wetland National Park**
- Funding: **French Development Agency (AFD)**



Manono /

Manono, Democratic Republic of Congo

- Project holder: **SNEL National Electricity Company**
- Builders: **Enerdeal; Groupe Forrest**



#GreenSolutions Awards

Discover the “Buildings” winners



Sustainable Construction Grand Prize



©Archibionio



Autonomous House B/ Bouskoura, Morocco

- Contractor: **Oualid Belakbil**
- Construction manager: **Archibionio-Myriam Soussan et Laurent Moulin architectes**
- Manufacturers: **Orientalier Menuiseries bois; Menuiserie acier El Amri; Argilex**

[Watch the video](#)



Technical Highschool for health professionals / Ettelbruck, Luxembourg

- Contractor: **Administration des bâtiments publics**
- Designer: **Fabeck Architectes**
- Consultancy agencies: **Betic Ingénieurs-Conseils S.A.; Daedalus Engineering SARL; EBP Schweiz AG; SECO Luxembourg**
- Others: **D3 Coordination; Dehne; Kruse Brandschutzingenieure**

Special
Mention



©Fabeck Architectes



PopUp Dorms / Vienna, Austria

- Contractor: **WBV-GPA**
- Construction manager: **Obermayr Holzkonstruktionen GmbH**
- Environmental consultancy: **LANG Consulting**
- Designer: **F2 Architekten**
- Others: **OeAD Housing Office; home4students**

Special
Mention



©home4students, LANG
consulting



#GreenSolutions Awards

Discover the “Buildings” winners



Sustainable Renovation Grand Prize



Greenpeace Spain Headquarters / Madrid, Spain

- Contractor: **sAtt Triple Balance**
- Construction manager: **sAtt Triple Balance**
- Designer: **sAtt Triple Balance**
- Developer: **Greenpeace España**
- Thermal consultancy agency: **Alter Technica Ingenieros**
- Construction company: **3B Ingenieria y Consultoria**
- Other: **Maria Gil de Montes**
- Environmental consultancy: **Fundacion para la Salud Geoambiental**

[Watch the video](#)



Flatmettoekomst / Utrecht, Netherlands

Special
Mention



- Contractors: **Mitros; Vios Bouw**
- Construction manager: **Nieuw Utrechts Peil**
- Designer: **ONB**
- Thermal consultancy agency: **Nieman Raadgevende Ingenieurs**

Special
Mention



Winter Olympic Plaza Reconstruction / Xishi, China

- Builder: **Beijing Shougang Construction Investment Co., Ltd.**
- Consultant: **China Academy of Building Research**



#GreenSolutions Awards

Discover the “Buildings” winners



Low Carbon



©Stéphane Brugidou



Aerem Factory / Pujaudran, France

- Contractor: **AEREM**
- Construction manager: **Seuil Architecture**
- Thermal consultancy agency: **Soconer**



Ecoconstruction centre of Beaulieu-lès-Loches /

Beaulieu-lès-Loches, France

Special
Mention



©Envirobat Centre et éco-construction sud-touraine

- Contractor: **Communauté de communes Loches Sud Touraine**
- Construction manager: **180° Architectes**
- Consultancy agency: **SOCOTEC**
- Thermal consultancy agency: **EFFILIOS**
- Structures consultancy agency: **ARCABOIS**
- Other: **C2A**



Konsequela / Konsequela, Mali

Special
Mention



©GERES - Fertl Ink

- Contractor: **Groupe Énergies Renouvelables , Environnement et Solidarité (GERES)**
- Construction manager: **GERES**
- Construction company : **Entreprise Karim Dembélé + artisans et apprentis VN**
- Developer: **Association la Voûte Nubienne (AVN)**
- Designer: **Al Mizan Architecture, development, Ecology in Sahel**
- Other: **Association Malienne d'Éveil au Développement Durable (AMEDD)**



#GreenSolutions Awards

Discover the “Buildings” winners



Health & Comfort



©Bernard Boccara



Forestry Brigade / Brussels, Belgium

- Contractor: **IBGE**
- Constructive manager: **Gillion Construct - Entreprise générale**
- Designer: **B612 Associates**
- Structures consultancy agency: **Greisch**
- Other consultancy agencies: **Matriciel; OLM Paysagistes**



TADI / Tianjin, China

- Designer and Consultant: **Tianjin Architecture Design Institute**



Energy & Hot Climates



©UMA



University of Environment / Valle de Bravo, Mexico

- Contractor: **Miguel Campero Cuenca**
- Designer: **Oscar Hagerman**
- Investor: **Federico Llamas**

Special Mention



©Essam Arafa, Waleed Arafa, Tariq Al Murri



Basuna Mosque / Sohag, Egypt

- Contractor: **Dar Arafa Architecture**
- Construction Manager: **Dar Arafa Architecture**
- Others: **Hisham Negm; Ahmed alHadary Amr Haggag Waleed Samir; Bishoy Nagy**



#GreenSolutions Awards

Discover the “Buildings” winners



Energy & Temperate Climates



©Andrea Kroth



Newtonproject House 1 /

Berlin, Germany

- Contractor: **Newtonprojekt GbR**
- Construction manager: **Deimel Oelschläger Architekten Partnerschaft**
- Structures calculist: **Lichtenau Himburg Tebarth Bauingenieure GmbH**
- Thermal consultancy agency: **pi Passau Ingenieure GmbH**
- Others: **Dr. Ing. Gabriele Holst; Büro 1.0; Low-E Ingenieurgesellschaft für energieeffiziente Gebäude**



New Police Office / Molenbeek-Saint-Jean, Belgium



Special
Mention

©Julien Forthomme

- Contractor: **Zone de Police Bruxelles-Ouest**
- Construction manager: **Bureau d'architectes Emmanuel Bouffioux (BAEB)**
- Consultancy agency: **TPF - Engineering S.A.**
- Structures consultancy agency: **ABCIS-Van Wetter S.A.**
- Thermal consultancy agency: **NEO & IDES sprl**
- Manufacturer: **BAM Belgium - Galère Sa**
- Certification companies: **Bruxelles Environnement IBGE ; Arcadis Belgium**



Special
Mention



Fivewin Science & Technology Museum /

Zhengzhou, China

- Builder: **Henan Fivewin Architectural Design Co., Ltd.**
- Designer: **School of Architecture, Zhengzhou University**



About Construction21.org



As the social media for sustainable buildings and cities, [Construction21](#) disseminates free information among actors of the building and city sectors, especially through its three databases dedicated to exemplary [buildings](#), [districts](#) and [infrastructures](#).

The Construction21 network – counts 11 national platforms in Europe, China and North Africa, managed by local non-profit organisations, along with an 12th international platform in English.

Every year, Construction21 organises the [Green Solutions Awards](#), an international contest aiming to make concrete solutions known among professionals from all over the world, to accelerate transition toward a more sustainable world.

The Construction21 network

Members of the international Construction21 association, the chapters manage Construction21 national platforms and organise the Green Solutions Awards in their country.



Partners

The competition is organised with the support of [ADEME](#) and the [Global Alliance for Buildings and Construction](#).

Also, companies committed to fighting against climate change, have joined the competition: [BNP Paribas Real Estate](#), [Parex](#) and [EDF](#). They are presented in the following pages.



Around 100 national and international media partners are also promoting the Green Solutions Awards within their own network, readers and visitors.



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Two questions for Catherine Papillon

Global Head of Sustainable Development/CSR, BNP Paribas Real Estate



Why is your company committed to fighting climate change?

At BNP Paribas Real Estate, the **climate change topic and its impact on the real estate business is part of our Corporate Social Responsibility (CSR) strategy**. In fact, in our operations and service offers, we are **committed to taking into account the climate change challenges, optimising the environmental footprint of our activities, promoting circular economy and making the environmental quality of our products and services a lever to increase performance both in finance and in use**.

That is why, whether in construction, operation or renovation, we offer our customers **energy-efficient and environmentally friendly solutions, respectful of the health and well-being** of corporate as well as residential real estate users.



BNP Paribas Real Estate is the winner of the "Inventing the Greater Paris Metropolis" contest, as the owner of the 17&CO real estate complex, located in Porte de Saint-Ouen in the 17th arrondissement of Paris. Designed by Hardel + Le Bihan Architects, 17&CO is a 17,900sq m mixed-use project. It is composed of 8,000sq m of offices including a 1,000sq m incubator, a 100-room hotel, a 4,000sq m youth hostel offering co-living, 1,200sq m of shops (mini flea markets, food court, Fablab, etc.), a reversible festive building of 600sq m and a mobility centre with a 500-space public car park.

17& CO will create the landscape of the Saint-Ouen gate with planted and production spaces on the roof. From an environmental point of view: the NF HQE Sustainable Building 2016 French certification is targeted for the whole project, as well as the BREEAM New Construction British certification for the office building. An ambitious level of energy performance will be targeted with the E+C- label.

What actions did you put in place regarding sustainable development/CSR?

In our different businesses, we develop solutions to anticipate and face environmental issues, but also to **meet the new requirements and uses of our clients** (investors, companies, individuals, or local communities), and thus to **positively contribute to the challenges of climate change and urban transformation**.

It is in this context that we support some initiatives in the real estate industry such as the Low Carbon Building Label (BBCA), the French Institute for Building Efficiency (IFPEB), the HQE-French GBC Alliance, or Biodiversity and Circolab, and of course Construction21 and its Green Solutions Awards.

We have also set ambitious goals to reduce CO2 emissions and to increase environmental quality:

- 100% of the operations we deliver in corporate property are certified and reach certifications with the highest performance levels: excellent or exceptional.
- In residential, 100% of housing delivered in 2020 will be certified.
- 100% of office and housing operations delivered in 2020 will benefit from a carbon footprint audit.

In 2019, we will build, with our different businesses and countries, 3 roadmaps: one on reducing greenhouse gas emissions from our activities, the second on biodiversity and the third on circular economy.

About

European leader in real estate services, BNP Paribas Real Estate covers the entire life cycle of a property: Promotion, Transaction, Consulting, Expertise, Property Management and Investment Management. With 5,400 employees, BNP Paribas Real Estate locally advises owners, tenants, investors and local authorities in Europe, the Middle East and Asia.

BNP Paribas Real Estate, a BNP Paribas Group company, generated €968 million in revenue in 2018.



Two questions for Louis Engel

Safety & Sustainable Development Director, PAREX

PAREX

A SIKA COMPANY

Why is your Group committed to fighting climate change?

Energy consumption of buildings represents more than a third of the total consumption worldwide and is responsible for almost a quarter of greenhouse gas emissions.

We believe that **all players in the construction chain must be mobilised to fight against climate change** and we decided to play our part. For several years, we have **taken an active role in improving the thermal efficiency of buildings** by developing our External Insulation Finishing System (EIFS) offer.



What actions did you put in place regarding sustainable development?

Our “**BUILDING RESPONSIBLY**” sustainable development programme is based on 4 commitments, to meet the environmental, social and societal challenges we face:

- **innovating**, continuously, to contribute to sustainable construction;
- **reducing** our environmental footprint throughout the life cycle of our products;
- **acting** for and with our employees;
- **anchoring our sites in their territory.**

To go further in our commitment to fight climate change, we have deployed for 3 years our Climate Program, a 3-step approach which consists of:

- **measuring** the greenhouse gas emissions related to our activities in all countries where we operate,
- **reducing** these emissions,
- **adapting** and **mitigating** impacts of some residual emissions by financing ecosystem restoration projects through reforestation and agroforestry.

At the end of 2018, we achieved the first part of our goals: measurement of greenhouse gas emissions in all the countries where we operate; pursuance of action plans set up with our suppliers within our industrial units to reduce CO₂ emissions; planting of 58,000 trees for 2 years trees to mitigate 100% of emissions related to business trips as part of 10 agroforestry projects supported by PUR Project in the main countries where we operate.

This positive momentum encourages us to continue to reduce our emissions while **contributing to the development of local communities.**

Our ambition is to **integrate these sustainable development actions into all our activities** in order to contribute to the growth of sustainable construction.

About

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 23 countries with 74 production sites and bring together 4,500 employees worldwide. Our ambition is to be the preferred partner on our markets and in the local economic and social structure around our sites. Since May 23rd, 2019, PAREX has been part of the SIKA Group.



Two questions for Jean-Pierre Frémont

Local Authorities Director, EDF



Why is your company committed to fighting climate change?

As players committed in a sustainable and concrete way in the fight against climate change, EDF and its specialised subsidiaries offer numerous energy services and expert solutions that are increasingly adapting to the **needs of local authorities**, as well as to the energy transition challenges. Our ambition is to contribute to strengthening the economic activity and **innovation of territories**, to improve the **life quality of the inhabitants**, to build sustainable cities, while respecting low carbon requirements of the 21st century.

Through our **adaptability**, our technological expertise and our wide range of skills and solutions, EDF asserts the reliability of its advice and the relevance of its technological choices, in the service of energy transition and green growth.

This allows our customers to have a **forward-looking view**, benefiting from expert solutions and relevant advice. They thus have access to efficient energy services that are adapted to many different situations and needs, in the service of a **carbon-free performance**.



EDF, partner of cities and territories



Optimal Solutions, the double Smartgrid Nanterre Cœur d'Université ©Ramdam



Citelum, the connected management project of public space in Dijon, France ©Jacques Blanchard

What actions have you put in place regarding sustainable development/CSR?

The world of energy is changing. Energy is becoming more and more decentralised, carbon-free, digital. The customer is becoming more and more involved in his consumption and energy savings. Wind, sun, sea: we try to make the best use of natural resources.

All these innovations also make us change and evolve. This **desire for transformation**, this will to remain close to customers and territories, at the heart of energy transition and climate issues, is our **new strategic horizon CAP2030**: being a **responsible electricity provider, champion of low carbon growth**.

We have committed to reduce by at least 40% our already low CO2 emissions, to become carbon neutral by 2050, and to develop 30 GW of solar energy by 2035.

In addition, we have selected six Corporate Responsibility Goals, in line with the UN's 17 Sustainable Development Goals. They each carry a strong ambition on:

- Climate and carbon
- Human development of Group employees
- Offers to customers, in particular to vulnerable customers
- Energy efficiency
- Dialogue and consultation
- Biodiversity conservation

We are therefore committed to providing answers to the transformation of the world of energy and to integrating the economic, societal and environmental dimensions into the heart of our strategy.

About

As a major player in the energy transition, the EDF Group is an energy provider that is increasingly present in the field of renewable energies and energy services. EDF and its subsidiaries, through the EDF Energy Solutions, offer performance and energy efficiency solutions to serve their customers in France.

EDF and its subsidiaries are already offering new energy solutions for connected urban lighting, residential heating, charging electric vehicles, local electricity production, energy storage, thermal smart grids and smart electricity grids, etc.