

# Rules of the contest

## Green Building & City Solutions Awards 2016



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### Conditions to apply and rules of the contest

- All the users in possession of a Construction21 account are allowed to participate
- In the case studies entering the contest:
  - All the mandatory fields must be filled
  - The choice of the category in which you compete must be justified in the field provided for this purpose (one unique category per building).
  - All the specific fields to the chosen category for the candidacy must be filled in.
- The winners of former editions are not allowed to participate with the same building
- Each national team Construction21 will moderate the presented case studies. They must have high energy performance and provide real innovation in the construction sector in terms of sustainable development.
- The presented buildings and solutions should be reproducible in another place.
- All buildings, new and refurbished, should have been delivered between 1<sup>st</sup> of January 2014 and 30<sup>th</sup> of June 2016 (France and Spain). For districts participating, at least a part must be delivered by 30<sup>th</sup> of June 2016.
- Solutions, buildings and districts participating in the Contest, and any item mentioned in the case study, must be able to be filmed on site in case of winning candidacy
- If the information on the case studies are incorrect, the organizer reserves the right to downgrade the originally nominees.
- If one of the here-above conditions is not fulfilled, the organizer reserves the right to cancel the participation of the related candidate.

### Calendar:

- 10<sup>th</sup> of May: Opening of registrations
- 26<sup>th</sup> of June: Closing of applications
- 29<sup>th</sup> August to 20<sup>th</sup> of September: Online votes for buildings
- 26<sup>th</sup> of September: Announcement of the national winners
- 29<sup>th</sup> of September to 12<sup>th</sup> of October: International Online vote (buildings & cities)
- 14<sup>th</sup> of November: Awards ceremony during the Marrakesh COP22

## Mandatory fields for all categories

- Project description
- Label/Certification (if any)
- Owner approach of sustainability
- Architectural description
- Primary energy need
- HVAC systems
- Urban environment

### Mandatory fields by category

For each category, some specific fields have to be filled in. If not, Construction21 deserves the right to cancel the application, of this building.

For numeric fields, no minimal performance is required. But the jury will appreciate the quality of each applicant in respect of the category criteria. The replicability of the solutions proposed will also constitute an important evaluation criterion for the jury.

## Categories “Building”

### 1 . Energy and temperate climates



The buildings competing in this category are located in temperate or cold climates, where a winter heating is required.

The case studies in this category should combine Zero Energy Building Performance (as provided by the European EPBD, "A building whose energy consumption is almost zero is a building that has a very high energy performance. The nearly zero or very low energy required should be covered to a very large measurement of energy produced from renewable sources, on-site or nearby ") and optimal use of renewable energy (through evaluation of installed systems, the amount of energy produced, the level of innovation systems, efficiency and benefits for the users), and the presence of vegetation to regulate temperature.

#### Mandatory fields on this category:

- Energy consumption in final use
- Renewable energy annual production
- Distribution of energetic consumptions
- Ubat
- Systems energy efficiency
- Additional information on the building envelope and renewable energies
- Air tightness and used indicator
- Greenhouse Gas Emissions
- Heating systems
- Hot water systems
- Cooling systems
- Ventilation Systems
- Renewable energy Systems

#### Non mandatory fields, but taken in account by the jury

- Real final energy consumption/per year + Reference year
- More information about real consumptions and performances
- Greenhouse gas emissions in use
- Cost of renewable energies

## 2. Energy and Hot Climates



The buildings in competition are located in hot, tropical or arid climates, where the challenge is keeping buildings cool despite high outdoor temperature.

The case studies in this category must combine Zero Energy performance of buildings (as provided by the European EPBD "A building whose energy consumption is almost zero is a building that has a very high energy performance. The amount almost zero or very low energy required should be covered to a large extent by energy produced from renewable sources, on-site or nearby"). Particular attention will be paid to the bioclimatic quality of the buildings and the use of robust and easily reproducible solutions, as well as the presence of vegetation to regulate temperature.

### Mandatory fields on this category:

- Energy consumption in final use
- Renewable energy annual production (% of the needs of the building)
- Distribution of energetic consumptions
- Ubat
- Systems energetic efficiency
- Additional information on the building envelope and renewable energies
- Air tightness and used indicator
- Greenhouse Gas Emissions
- Heating systems
- Hot water systems
- Cooling systems
- Ventilation Systems
- Renewable energies Systems

### Non mandatory fields, but taken in account by the jury

- Real final energy consumption/per year + Reference year
- More information about real consumptions and performances
- Greenhouse gas emissions in use
- Cost of renewable energies

## 3. Low Carbon



The case studies presented in this category will be evaluated relative to bio-based and recycled materials used in the construction of the building (Life Cycle Assessment). Will also be taken into account natural and traditional materials. Water consumption and self-sufficiency index will be significant in the evaluation and particular importance will be given to the integration of vegetation and biodiversity in this category (open spaces, roofs & green walls, urban agriculture ...).

### Mandatory fields on this category:

- Ubat
- Bio-sourced Materials
- Consumption of water, recycled, grey and rain water, Ubat
- Heating, hot water, ventilation, cooling systems
- Greenhouse gas emission in use and methodology used
- Lifetime of the building
- Green spaces
- Urban environment

### Non mandatory fields, but taken in account by the jury

- Total greenhouse gas emission from birth to death of the building
- Comments about greenhouse gas emission calculations
- Cost of renewable energies
- Life Cycle Assessment and comments about LCA Diagram
- Greenhouse gas emission before use
- Information about LCA calculation modes
- Impact of the used materials and products on the building construction and greenhouse gas emissions
- Impact of manufacturing materials on the non-renewable energy consumption

#### 4. Smart Building



The case studies presented in this category describe buildings where intelligent systems are used efficiently. The evaluation of case studies will be based on how energy efficiency is improved and / or consumption is reduced thanks to these systems, the ability of the building to contribute to the balance of energy networks, as well as the benefits provided to the building's users.

##### Mandatory fields on this category:

- Inhabitants opinion
- Centralized technical management of the building
- Energy consumption distribution
- Smart grids
- Ubat

##### Non mandatory fields, but taken in account by the jury

- Inhabitants opinion about home automation
- Real energy consumption /per year
- Additional information on building management system
- Greenhouse gas emission in use
- Natural light factor

#### 5. Sustainable construction Grand Prize



This category will reward an outstanding new building on all dimensions of sustainable development: carbon impact on the environment, biodiversity, comfort and health of residents, social innovation and replicability.

#### 6. Sustainable refurbishment



The case studies presented in this category describe renovated buildings that have drastically reduced their energy consumption. They will be evaluated by the jury according to these reductions and the means deployed to achieve this performance, as well as improving the quality of life and the security provided to the occupants, the performance on all

dimensions of sustainable development, including carbon footprint, impact on the environment, biodiversity, social innovation and replicability.

**7. Users’ choice award**



Users’ choice award is awarded to buildings that received the highest amount of votes from Internet users on Construction21 platforms.

**Categories “City”**

**1. Smart City**



This category awards an eco-district, or urban area with smart networks and optimization of the different flows. Based on IT, this kind of urban area permits to adjust the consumption and services proposed to the different types of users in real time.

**2. Sustainable city “Grand Prize”**



This category awards an urban area or eco-district that have an exemplary approach in its global eco-responsible action, with innovative and performing solutions in several dimensions of sustainable development.

**3. Users’ choice award**



The users’ choice award is dedicated to the eco district/urban areas that received the highest amount of votes from Internet users on Construction21 platforms.

**Rights**

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