

# CONSTRUCTION21 AWARDS 2015 - RULES

## Conditions to apply and rules

- All Construction21 registered users can enter the contest.
- Competing case studies must have:
  - o all mandatory fields filled
  - o a description illustrating why the building is applying to certain categories
  - o all mandatory fields linked to the category filled
- Winners of the past awards cannot participate with the same building or material/product.
- Each national Construction21 team will moderate the submitted case studies. They must have high energy efficiency qualification and bring some innovation to the sector in terms of sustainability.
- Buildings and solutions applying to the contest should be replicable in other places.
- The buildings included in the contest will be presented in a specific box at the right column on the Construction21 case studies homepage.
- All buildings (or renovation works) must have been delivered before the June 30, 2015 and after the January 1<sup>st</sup>, 2010.

## Categories

The categories are the following:

- **Nearly Zero Energy Building**  
The case studies presented at this category will be nearly zero energy buildings: *A nearly zero-energy building is defined in Article 2 of the EPBD recast as "a building that has a very high energy performance. The nearly zero or very low amount of energy required should be covered to a very significant extent by energy from renewable sources, including energy from renewable sources produced on-site or nearby".* The case studies will be evaluated by the jury considering how close they are to a net zero energy building.
- **Low Energy Renovation**  
The case studies presented at this category will just be renovated buildings with a high reduction in energy consumption. They will be evaluated by the jury considering the reduction in energy consumption and the way to achieve it, as well as the quality life and security improvement provided to building users.
- **Renewable Energies**  
The case studies presented at this category will be buildings in which renewable energies are used in a very good way. The case studies will be evaluated by their renewable energy systems. It will be evaluated the amount of energy produced, the innovation on the systems, the efficiency of the systems and the service provided to the building users.
- **Smart Building**  
The case studies presented at this category will be buildings in which smart systems are used in a good way. The case studies will be evaluated by the systems that helps the building to reduce the consumption or increase the efficiency of it, and the ability of the building to participate to the energy network balance and the service provided to the building users
- **Health & Comfort**  
The case studies presented at this category will be evaluated by how they help the occupants to increase their health and comfort sensation in it, especially in terms of daylight level, indoor air quality, indoor acoustics performance or thermal environment.
- **Bio-based & recycled Materials**  
The case studies presented at this category will be evaluated by the bio-sourced materials used for the construction/renovation of the building. These materials should be issued from natural origin as wood, straw, linen, cork, hemp, sheep wool, mud brick, adobe... or recycled materials.

## Jury

### - National jury

Each Construction21 chapter or Awards partner, organising the contest in its country will organize its national jury with a minimum of five building experts from different kind of specialties (R&D, Public entities, ESCO, construction company, energy agency, etc.)

The national jury will select a national winner in each category. A building applying in different categories may win in each category. The national winners will constitute the nominees for the international step of the contest.

### - International jury

One expert issued from each national jury will join the international jury. This jury will select the final contest winners in each category among the national nominees. A special jury price may be attributed to a building displaying outstanding qualifications in several categories.

## Users' choice award

Users will vote for as many case studies as they want to during the vote phases. During the national vote phase, users will vote in each country. Each user may vote on each Construction21 platform, national or international. A building may be selected only once by the same user on the national platform it belongs to. It may be selected a second time by the same user on Construction21 international platform.

The building selected by the highest number of users, regardless its category, will become the national users' winner at national level and will participate to the international vote phase as a nominee.

The users' vote is independent of the jury selection, at national or international level. A building may win both via the jury selection and the users' vote.

## Copyrights

By applying to the contest, the applicants give permission to Construction21 AISBL, its chapters, partners and sponsors, to use all information and pictures published in the case studies for any communication actions, on line or off line.

## Mandatory fields

- Project description
- Energy Performance Certificate
- Certification Scheme (if any)
- Architectural description
- Primary energy need
- HVAC systems description (selecting box)
- Urban environment

## Mandatory fields for each category

To apply in each category, some specific fields will have to be filled in. If they were not, Construction21 team may suppress the application to this building to the related category.

For quantitative criteria, no minimum performance level is required to apply. But the jury will appreciate the quality of each applicant regarding each category criteria (qualitative and quantitative ones) and will select the most efficient candidates. The replicability of the solutions proposed in the buildings will be also an important criterion for the winners' selection.

## Nearly Zero Energy Building

- Consumption of Final Energy In Use (all consumption)
- Breakdown for energy consumption
- U-Value
- Envelope additional information
- Air Tightness Value + indicator used
- GHG emissions at use stage
- At least one product/solution contributing to the building energy efficiency

Not mandatory to apply, but considered by the jury for the evaluation:

- Real consumption of Final Energy/year + reference year

### Low Energy Renovation

- Consumption of Final Energy In Use (all consumption)
- Breakdown for energy consumption
- More information on real consumptions and performances
- Initial consumption
- Consumption of Final Energy In Use
- Consumption gain
- Envelope performance<sup>[VG1]</sup>
- U-Value
- Envelope additional information
- Air Tightness Value + indicator
- At least one product/solution contributing to the building energy efficiency

Not mandatory to apply, but considered by the jury for the evaluation:

- More information on real consumptions and performances
- Real consumption of Final Energy/year + reference year
- GHG emissions at use stage

### Renewable Energies

- U-Value
- Heating system
- Hot water
- Cooling system
- Ventilation system
- Renewable systems<sup>[VG2]</sup>
- Yearly production of renewable (in % of building energy needs)
- More information on renewable energy systems
- Other information on renewable energy
- GHG emissions at use stage
- At least one product/solution contributing to the renewable energy production

Not mandatory to apply, but considered by the jury for the evaluation:

- GHG emissions at use stage<sup>[VG3]</sup>
- Renewable energy systems cost

### Bio-based & recycled Materials

- Owners: environmental philosophy or approach of sustainability
- U-Value
- Eco-design material
- Any data on eco-designed material
- At least one bio-sourced or recycled product/solution

Not mandatory to apply, but considered by the jury for the evaluation:

- GHG in use stage and methodology used
- GHG before use (construction and product)
- Building lifetime
- Total GHG Emissions Cradle to Grave
- Comments/ additional information on GHG calculations
- Life Cycle Analysis
- Explanation for LCA picture
- More information on LCA calculations
- Construction material impact on GHG emissions
- Construction material impact on non renewable primary energy consumption

### Smart Building

- Building users opinion
- Breakdown for energy consumption
- U-Value
- ~~Users' control system opinion~~
- Explanation of Building Management System (BMS)
- SMARTGRID
- At least one product/solution contributing to the smart profile of the building

Not mandatory to apply, but considered by the jury for the evaluation:

- Users' control system opinion
- Real consumption of Final Energy/year
- Reference year
- Other information on BMS
- GHG emissions at use stage
- 

## Health & Comfort

The applicant will explain in the following fields how the building can provide a high level of health and comfort to its inhabitants or workers, especially regarding daylight level, light or darkness intensity following the time of the day, relation between indoor and outdoor environment, variation of the indoor environment following nature's cycles, indoor air and acoustics quality, indoor temperature. Quantitative measurements and technical descriptions of solutions implemented in the buildings will be appreciated by the jury.

- Owners approach of sustainability
- Building users opinion
- U-Value
- Air Tightness Value + Indicator
- Proof or testimonies energy/air tightness
- Health & comfort strategy
- ~~Indoor air quality~~<sup>[VG4]</sup> health & comfort strategy
- At least one product/solution contributing to health and comfort
- Green space in common use

Not mandatory to apply, but considered by the jury for the evaluation:

- Users' opinion about control system
- GHG in use stage
- Indoor CO2 concentration (measured or calculated)
- Thermal comfort (measured or calculated)
- Acoustic comfort
- Daylight factor
- ~~Users' opinion about control system~~