



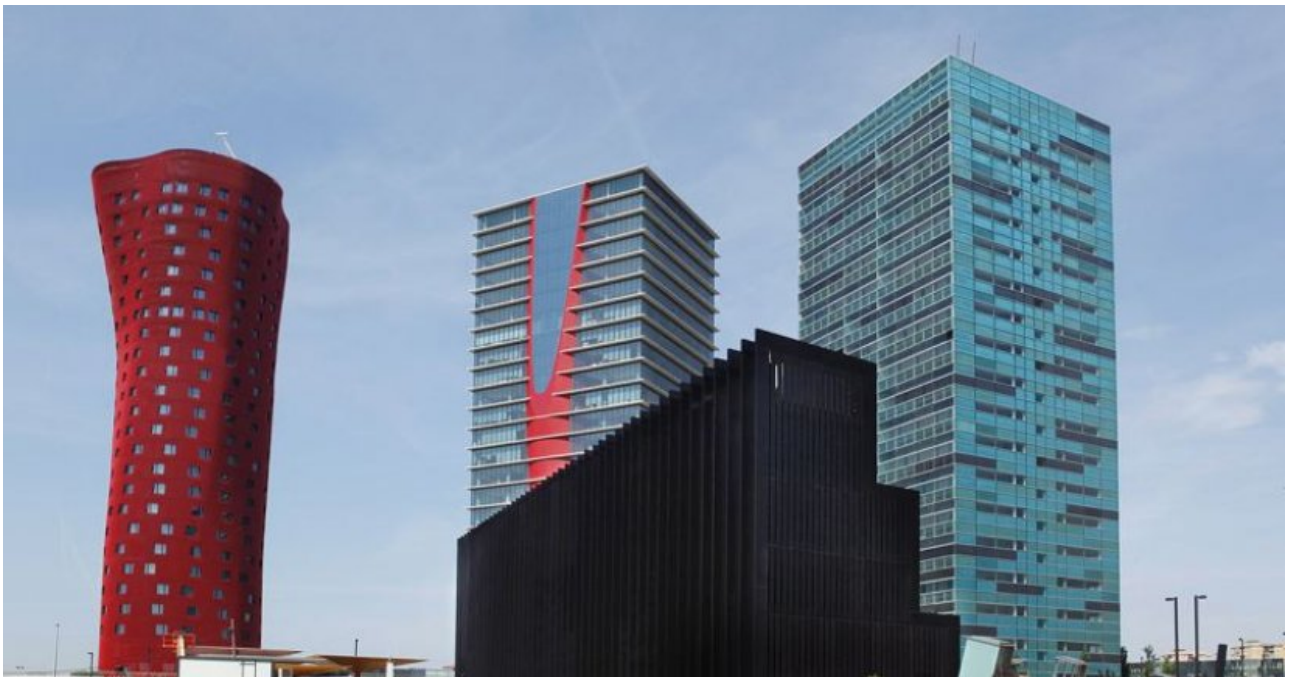
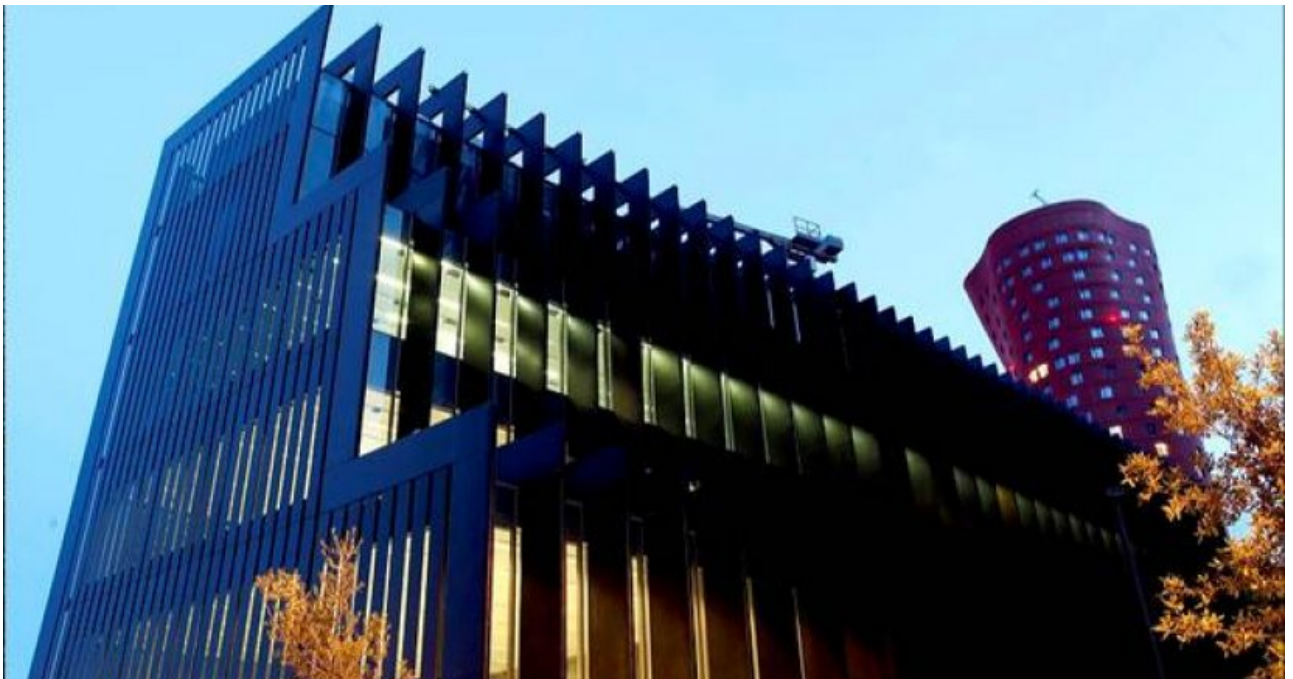
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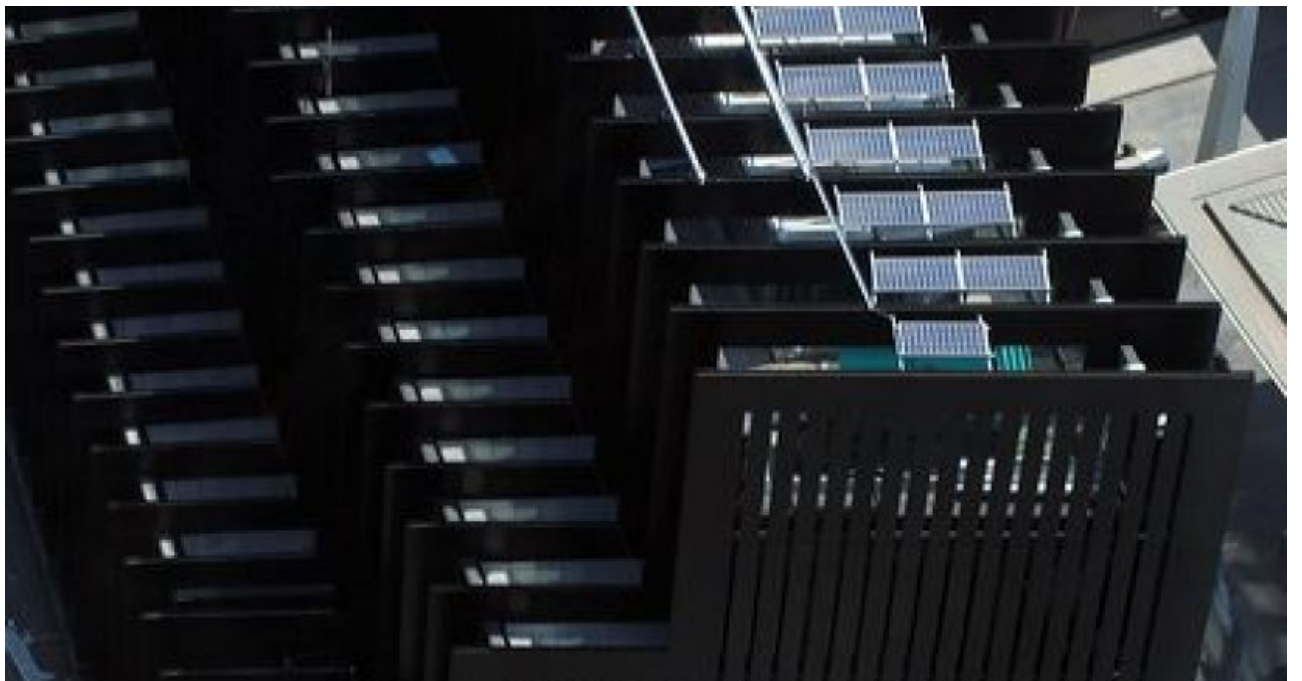
## LEED certification of an office block in L'Hospitalet de Llobregat

LEED energy and environmental certification in new constructions





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**Category:**

[Construcció sostenible](#) [1]

**Client**

Layetana Immobiliària

**Location**

L'Hospitalet de Llobregat

**Period**

2009 - 2011

## Motivation

Layetana Inmobiliària established the goal of obtaining LEED New Construction Certification for a 5,500 m<sup>2</sup> new office block, known as EDIIFICIO, in Plaça d'Europa, L'Hospitalet de Llobregat (Barcelona).

ERF provided assistance to the *RCR Arquitectes* architectural company and the *PGL engineering* firm throughout the project stages, from project design to works implementation, ensuring compliance with the environment requirements established by the Green Building Council Institute.

## Results

The EDIIFICIO building was awarded LEED NC Silver Certification in 2011, having achieved expected annual savings of 67% in terms of energy, 73% for water and 600 tonnes of CO<sub>2</sub> emissions compared to a conventional construction. In 2011, there were only six buildings in Spain with LEED-New Construction Certification, and EDIIFICIO was the first to obtain this seal of approval in Barcelona Metropolitan Area.

The new building's main features include:

- Class A Energy Efficiency.
- Architectural design with natural lighting in more than 75% of interior spaces.
- Induction air conditioning system, providing optimum comfort with minimum energy consumption.

- Use of recycled grey and rain water in toilet cisterns, urinals and cleaning, thereby reducing tap water consumption.
- More than 20% of building materials of recycled origin, reducing the impact generated by the extraction and processing of raw materials.
- More than 20% of materials local in origin.
- More than 80% of timber in the building obtained from FSC certified forests.
- No use of materials with significant VOC emissions in paints, carpets and interior finishes, helping to create a healthy internal environment.

The EDIIIFICIO on TV3:

How does a building become sustainable? <http://www.tv3.cat/3alacarta/videos/2794190> [2]

## **Categoria**

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[5] <https://erf.cat/en/tags-projecte/ambientalitzacio-dedificis>

[6] <https://erf.cat/en/tags-projecte/barcelona>

[7] <https://erf.cat/printpdf/475>