

CONSULTING SERVICES FOR THE LEED CERTIFICATION OF THE BBVA CAMPUS IN MORALEJA

CONSULTING SERVICES ON SUSTAINABLE BUILDING FOR OBTAINING THE LEED GOLD CERTIFICATION LEVEL



Context

First LEED experience of BBVA in Spain

In 2008, BBVA started to plan the construction of an institutional campus for its employees, a place where its personnel could receive training on sustainability, as well as leadership, languages, team management, etc. As part of its Global Eco-efficiency Plan currently being implemented, BBVA decided to resume its quest for obtaining LEED certification - the most prestigious certification for sustainable construction worldwide - for the BBVA Campus.

Once again, BBVA chose Indra as its advisor for the implementation and development of sustainable improvements that have a positive impact on their surroundings, thanks to the international experience of Indra in LEED certification for buildings. The project must be built on two major pillars: the search for a high energy efficiency and compliance with the highest standards on sustainability.

The project is located in La Moraleja, Alcobendas and is highly unique, given that it includes the construction of three new

buildings and the restoration of an existing building, which was previously the hunting pavilion of the Count of Los Gaitanes. This pavilion is the main building of the BBVA Campus and is the custodian of the its identity and character.

Amongst its objectives, the project team sought to preserve the existing autochthonous vegetation so that 80% of the surface area of the 40,000 m² of the plot - a native holm oak forest - was conserved during the project's design and construction phases.

LEED Certification

Indra offered BBVA comprehensive advising, together with all of the project's participants throughout all of its phases, from basic project design through to its opening and certification. As part of our comprehensive advising, during construction an Indra professional was assigned to the project to ensure compliance with LEED certification requirements.

The high energy efficiency of the BBVA Campus complex results of an integrated design from its conception, including measures such as:

- Double skin facade that simultaneously provides a high quality thermal enclosure and maximum utilization of sunlight.
- Installation of high-performance chillers.
- Installation of renewable energies.
- Energy-efficient variable refrigerant systems.

- Occupancy sensors.
- High-efficiency condensing boilers.
- Low-energy wattage lamps.
- Lighting controls.
- Reduced outdoor lighting densities.

BBVA Campus has implemented a verification and measurement plan with the goal of providing continuous monitoring of the buildings' energy consumption throughout the complex in the long-term, and to propose corrective actions if the planned energy savings are not achieved.

Benefits

A sustainable project in all of its dimensions. Reduced consumption and improved quality of life for visitors

Proposals for improvement by Indra during our participation in the project have led to significant energy and water savings, as well as a reduced impact during construction. Compared with a normal complex, these measures contribute toward the campus reducing its energy consumption by 30% and its CO2 emissions by 249.9 tons per year.

As regards water consumption, we have achieved a reduction of 63% compared with a conventional building. Furthermore, potable water use in toilets and urinals

was reduced by 100% by reusing the graywater from one of the buildings.

To reduce the project's impact during construction, management plans were implemented to improve air quality for workers during construction and for the building's future occupants. Additionally, a waste management plan kept over 75% of the waste generated by the construction from ending up at dumpsites, allowing for its reuse and the manufacture of new products.

Also, sustainable materials have been used, particularly FSC-certified wood and autochthonous materials to reduce the impact of transporting materials while promoting the local economy.

The campus contributes toward reducing contamination arising from the use of vehicles, promoting alternative transportation methods, offering parking areas for bicycles and low-emission vehicles using efficient fuels, as well as a fleet of electrical vehicles for use by campus personnel.

Results

First gold level LEED certification of Spain's banking sector

The BBVA Campus has received the LEED® New Construction (NC) Gold Certification, the first from the Spanish banking sector to obtain it, confirming, once more, the commitment of BBVA to the

environment, the most representative in the world.

It is the first time in Spain that a complex of buildings has received this certification,

created by the United States Green Building Council (USGBC) to acknowledge levels of sustainability and health for the most important buildings internationally.

Indra in the sector

Corporate responsibility as a means of ensuring sustainability

Indra markets technology-based solutions that contribute to the sustainable development of companies and institutions.

Technology that supports diverse areas related to sustainability; solutions that help to manage carbon footprints, build more sustainable buildings, achieve labor market integration of persons with disabilities or improve transparency.

Indra is a leader in all of these fields, both in continuing to progress along its model as a sustainable company and guiding other organizations in doing so.



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Indra reserves the right to modify these specifications without prior notice.