

AKÇANSA PORT OFFICE PROJECT IS CANDIDATED FOR THE LEED CERTIFICATE!

Launched in 1998, the LEED certification system is an environmentally friendly building certification system developed by the American Council of Green buildings (USGBC). The LEED certification system is developed according to current standards and practices, and continues to contribute to the way it builds with innovative green buildings that have low environmental impact.

Green buildings offer a holistic approach, starting with land selection, where the structure is evaluated within the lifecycle, including energy, water, interior quality, material selection, and social-environmental relationships of building users are included in the design process.

Research shows that there are significant saving potentials in energy usage, carbon emissions, water consumption and waste generation in the use of green buildings. It was also established by scientific studies that the buildings built according to LEED criteria have less greenhouse gas emissions than the buildings built traditionally.

The key advantages of green buildings can be listed as follows:

- Reducing greenhouse gas emissions from buildings,
- Prevention of environmental damage caused by construction,
- Efficient use of natural resources,
- Reducing operating costs,
- Utilization and development of renewable energy,
- Minimizing or recycling waste resulting from excavation,
- Effective water management by collecting and evaluating rainwater on site,
- Benefit from daylight,
- Saving energy and water,
- Providing users with a healthier and more efficient environment,
- Adding value to urban living areas

Green buildings designed and built according to LEED criteria, along with these key advantages, also help companies in ESG reporting. Meanwhile, research on the operating costs of LEED-certified buildings is an indication of the potential for savings.



LEADERSHIP IN ENERGY AND
ENVIRONMENTAL DESIGN

This project is registered under the
LEED® green building program

The Akcansa Port Office Project has been reviewed under the following sub-headings of the LEED v4 system, the current version of the LEED certification system organized according to the evolving standards and practices, and entered in the nomination process of the LEED v4 Silver Certification:

1. Integrated Process

Preliminary efficiency analyzes and budget works were carried out in the early stages of the project along with the project managers on water and energy use, and project design was directed accordingly.

2. Location and Transportation

Electrical vehicle use is encouraged by planning to install an electric car charging station.

3. Sustainable Land

A healthy and ecological life environment will be established by increasing the green area ratio in the field, by building plants in various species suitable for the climate and soil structure of the region and supporting biodiversity. Light-colored coating materials are preferred on the roof and on hard floors, reducing the heat island effect. Employees are also effective in the landscape design principle, with access to and active use of open and green areas.

4. Water Efficiency

The project aims to achieve water efficiency without compromising user comfort by using efficient water luminaires according to EPA standards. In landscape green areas, there will be no use of cultural grass, the need for irrigation will be reduced to a minimum by selecting plant species that need less water and the application of efficient irrigation systems.

5. Energy and Atmosphere

In the project, the requirements of the American Energy efficiency Standard (ASHRAE 90.1.2010) were prioritized in the design and selection of heating, cooling, ventilation and lighting. The choice of mechanical systems, device efficiencies, thermal performance of building shell components were evaluated and possible inefficiencies were determined in the design phase. This will save energy costs. In addition, energy consumptions will be monitored through the building energy monitoring system, identifying potential problems and inefficiencies.

6. Materials and Resources

The waste produced during construction of the project will be parsed according to the type and sent to recycling facilities. This is intended to significantly reduce the amount to the waste site. The use of construction materials and architectural materials that have low environmental impacts, which are EPD certified, has recycled content and local material, is preferable in terms of environmental and economic terms and are encouraged to use the products that measure the environmental impact of the production process.

Instead of the new purchase of furniture to be used in the building, the use of existing furniture has been decided to prevent waste formation and contribute to the protection of natural resources.

Scenarios for separate collection and recycling of recyclable waste generated during usage of building are integrated into the project.

7. Indoor Life Quality

Improving indoor air quality is a key consideration in the LEED criteria for employee comfort and health. To do this, increasing the rates of fresh air indoors has been determined in accordance with ASHRAE 62.1-2010, and employees have been asked to work in a healthy and comfortable environment.

One of the things that are important in building design is the creation of internal environments where employees can optimize daylight. It is a priority to ensure employee satisfaction with lighting luminaires where solar control equipment and lighting levels can be adjusted to suit your needs.

In addition, low emission materials have been selected, taking care that the volatile organic compound rates harmful to human health contained in the content of indoor floor, wall, ceiling covering materials comply with international limits.

As a result, the Akcansa Port Office project, which is in the process of nomination for the LEED v4 Silver Certificate; with the goal of creating a healthy, environmentally conscious and modern workspace; is built by integrating many sustainability criteria into project design and construction process.

