



Green Building

IQ Knowledge Base
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Summary

BREEAM, LEED and EDGE : Green Building certifications present in Uzbekistan based on green specific mandatory requirements. A certification is given based on the environmental-friendly score received by the building.

BREEAM certificate can be issued twice and has less mandatory requirements than **LEED** which has many different sections to examine before giving a certification. **EDGE** has simpler and less mandatory requirements than **BREEAM** and **LEED**.

- The **Uzpromstroybank Headquarters**, the **Lot 1 Buildings in the IT Park** and the **Summit Business Center** have all been **BREEAM** certified thanks to the high ambitions on creating very high-quality Green Buildings.
- The **Trilliant Business Center** and the **RC Parkent Plaza** have been **LEED** certified thanks to the very specific requirements they fulfilled with long-term and innovating environmental improvements.
- The **Residential Block NUR** buildings created a whole eco-friendly living space thanks to the high performance and green materials used for the construction and have been **EDGE** certified.

Central Asia Comparision

Kazakhstan: more than 70 BREEAM or LEED certified buildings

Uzbekistan: 5 BREEAM or LEED certified buildings

Kyrgyzstan: 1 LEED certified building

Turkmenistan: 2 LEED certified buildings

Tajikistan: Only projects for now

Those buildings are only concentrated in rapidly expanding cities like in **Astana** or **Almaty** in Kazakhstan and like in **Tashkent** in Uzbekistan.

Between 2015 and 2017, 55 buildings have been BREEAM certified in Kazakhstan because of how difficult it was for the country to have LEED certifications at this time. It was easier for Kazakhstan to have lower rated BREEAM certifications but **still being certified** due to the simpler mandatory requirements in the country.

The 2017 International Exposition in Astana which had the "Future Energy" theme encouraged a lot the quick establishment of Green Buildings in Kazakhstan. If Uzbekistan can organize an International Exposition in the future, this will also create a quick expansion of Green Buildings.

Green Building



BREEAM is an internationally recognized sustainability assessment method published by the **Building Research Establishment Environmental Assessment Method** that evaluates and certifies the environmental performance of buildings.

Present in 50 countries

It considers various factors such as energy usage, water conservation, material selection, and ecological impact.

BREEAM ratings:

- Unclassified** (less than a 30% score rating),
- Pass** (≥ 30%),
- Good** (≥ 45%),
- Very Good** (≥ 55%),
- Excellent** (≥ 70%)
- Outstanding** (≥ 85%)

Leadership in Energy and Environmental Design is the most used green building certification program worldwide. It aims to help building owners and operators be environmentally responsible and use resources efficiently.

Present in more than 180 countries

It includes a set of rating systems for the design, construction, operation, and maintenance of green building, homes, and neighborhood with many factors.

There are four levels of **LEED** certification :

- Certified** (40-49 points),
- Silver** (50-59 points),
- Gold** (60-79 points),
- Platinum** (80+ points)

The **Excellence in Design for Greater Efficiencies** (EDGE) certification is a global green building certification developed by the International Finance Corporation (IFC). It's a recent certification but is meant to grow because of its less demanding certification program.

Present in more than 140 countries

It evaluates buildings based on energy, water, and material-saving strategies, enabling cost-effective and sustainable construction.

EDGE Certified level -
At least 20% savings in water and materials

EDGE Advanced level -
40% or more on-site energy savings

Zero Carbon Level -
100% Carbon neutral



Main differences

LEED and BREEAM differences

Technically, these two systems are pretty much similar. But the approach to certification of buildings is very different.

BREEAM has an appraiser who is provided with documents for checking compliance with the established criteria and approves them and sends them for evaluation. The appraiser appears twice, at the design stage and at the stage of putting the building into operation. That means that in the **BREEAM** system the certificate is issued twice (for the project itself and at its completion) so this implies that there's going to be two certificates that will be obtained separately.

BREEAM is easier to get due to the lack of strict criteria and emphasis on simple consumer properties amongst others, and **LEED** is more about green agenda and about many different sections that needs to be examined and validated, which makes it a longer and more complex process.

LEED/BREEAM and EDGE differences

EDGE Certification is focused on the design and construction of new buildings.

LEED also but covers a broader range of building types and stages including existing buildings.

EDGE is easier to obtain because of less complex mandatory requirements than **BREEAM** and even less than **LEED**.

The reason is that **EDGE** is better shaped for developing countries than developed countries. It's a good starting point for those countries because it still achieves measurable results even though the requirements and the process are easier.

Even though **EDGE** is made for developing countries, **BREEAM** and **LEED** are still giving certifications in less-developed countries like Uzbekistan or Kazakhstan and can be preferred as they're better known worldwide.

BREEAM



- Uzpromstroybank Headquarters

Thanks to the green banking program, the new **Uzpromstroybank** building will undergo BREEAM certification after the end of its construction and will receive a **Very Good BREEAM certification**

- Lot 1 Buildings in the IT Park

IT Park uses environmentally friendly materials, has clean energy generators and manage to reduce its water consumption. All of this helped this complex fulfill all the requirements needed to be certified and has a **BREEAM Very good certification**.



- Summit Business Center

The **Summit Business Center** located next to the Tashkent City Mall inside the Tashkent City International Business Center has received a **Excellent BREEAM certification**.

LEED

- Trilliant Business Center

During construction, solutions were implemented to reduce the carbon footprint, introduce waste processing, management and smart ventilation systems. Other technological solutions include the collection and recycling of waste materials into new materials, eco-friendly landscape design, car charging stations, and reducing energy and water consumption during construction. **The Trilliant Business Center** has now a **LEED Gold certification**.



- RC Parkent Plaza

The solutions in the field of energy-efficient design, reducing water consumption, site selection and construction, using sustainable materials and proper waste handling, as well as improving indoor environmental quality were introduced and made the complex having a **LEED Certified**.

EDGE

- Residential block NUR

The **NUR Residential Complex** is a prime example of energy-efficient design. By incorporating features such as high-performance windows, insulation, and efficient lighting, the **NUR Residential Block** ensures reduced energy consumption and creates an eco-friendly living space. **(In progress)**



Our team



Denis Sokolov FRICS

Partner, CEO

Denis.Sokolov@cmwp.uz
+998 94 022 0377
t.me/dsokoloff



Alexey Letunovsky

Head of analytical group

Alexey.Letunovskiy@cmwp.uz
+998 94 777 01 68
t.me/letunovskiy_AV



Guli Karabayeva

Analyst

Guli.Karabaeva@cmwp.uz
+998 90 128 8510



Amal Khaitov

Consultant

Amal.Khaitov@cmwp.uz
+998 90 399 3525
https://t.me/amal_khaitov



Sergei Fil

Head of the Leasing and
Acquisition Department

Sergey.Fil@cmwp.uz
+998 99 630 8368
t.me/uz_fil



Oleg Lyapustin

Consultant

Oleg.Liapustin@cmwp.uz
+998 90 914 56 32
https://t.me/oleg_liapustin



Andrei Shmelkov

Project Director

Andrey.Shmelkov@cmwp.group
+998 94 090 8804
https://t.me/Andrey_AY_CMWP

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<https://www.cmwp.uz>



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<https://t.me/reradar>



YouTube

<https://YT/@uzurbanlife>



Our office: Tashkent, BC Orient, 42 Amir Temur Ave.