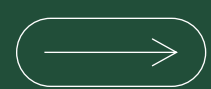
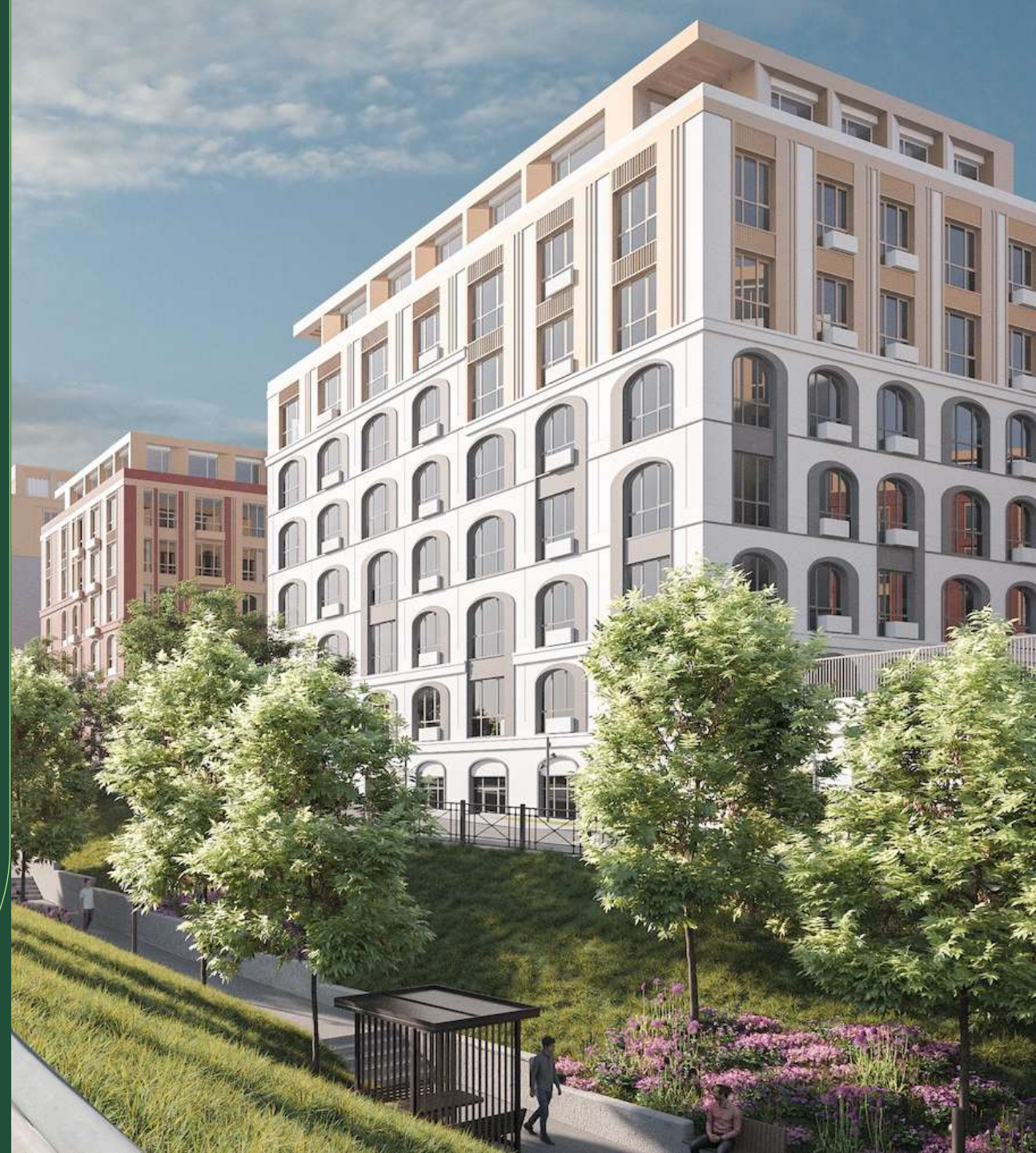


The Emergence of the Green Building Market in Kazakhstan



The Trend of Implementing
Eco-friendly Technologies
and Green Financing
in Construction

2023-2024 REPORT



Opening statement

Daniyar Azymkhanov

Founder and Director
of KazGBC



Dear Colleagues, Partners, and Supporters,

We are pleased to present the KazGBC Annual Report for the years 2023–2024. The development of sustainable construction is pivotal for the sustainable growth of Kazakhstan.

Today, buildings consume over 40% of total energy, approximately half of the world's timber, up to 20% of potable water, and generate more than 40% of greenhouse gas emissions, as well as a significant portion of waste. The quality of construction, environmental performance, and energy efficiency of buildings, along with their resilience to climate change, directly impact the state of the environment, the health and well-being of citizens, and the competitiveness and economic future of Kazakhstan.

By ratifying the Paris Agreement and approving the Strategy for Achieving Carbon Neutrality by 2060, Kazakhstan has undertaken ambitious commitments. Achieving them will require a major transformation of the construction sector.

One of the key challenges will be addressing climate change and its impacts, including temperature anomalies, disruptions in water cycles, extreme hydrological events, and increasing scarcity of water. Considering these factors is crucial when designing new buildings and modernizing existing ones.

Globally, significant efforts are being made to enhance the sustainability and adaptability of buildings. As part of the global network of Green Building Councils, KazGBC is working on implementing the best global practices within the context of Kazakhstan.

The results of this work are reflected in this report. KazGBC's achievements have been made possible thanks to the proactive stance of our partners, as well as the professionalism and dedication of our team.

While it is still early to talk about the widespread adoption of green approaches in Kazakhstan's construction industry, the emerging trend encourages us to move forward with optimism.

We thank you for your support and shared contribution to building a sustainable future for Kazakhstan!

Opening statement

Alexander Bely

**Executive Director
of KazGBC**



Dear Colleagues, Partners, and Green Building Advocates!

The years 2023 and 2024 have marked a significant milestone in advancing the practical implementation of green standards and promoting sustainable development in Kazakhstan.

KazGBC continues to demonstrate leadership in the development and application of the Kazakhstan OMIR standard. This year, we have not only assessed a record number of projects under this standard but have also established it as a key tool for sustainable construction in Kazakhstan. We successfully collaborated with government authorities to include the OMIR standard in the national taxonomy of green projects. This achievement opens new opportunities for financing eco-friendly construction initiatives through green bonds and loans.

Establishing partnerships remains a crucial priority for our work. Recently, we have expanded our engagement with key players of the industry and educational institutions to ensure the training of professionals capable of effectively applying green standards in practice. We take special pride in the launch of new educational programs and training sessions tailored for construction industry specialists.

KazGBC has also strengthened its position on the global arena. Our involvement in developing green standards for other countries, including Azerbaijan, highlights the high regard for Kazakhstan's expertise. Together with our partners from the CIS countries we have created a platform for sharing knowledge and exchanging best practices, fostering regional integration.

Each step towards sustainable construction requires the efforts of many individuals – experts, partners, and advocates. I am proud of the KazGBC team whose professionalism and dedication have made these achievements possible. I extend my gratitude to everyone contributing to our shared mission of creating an environmentally friendly, comfortable, and safe future for all.

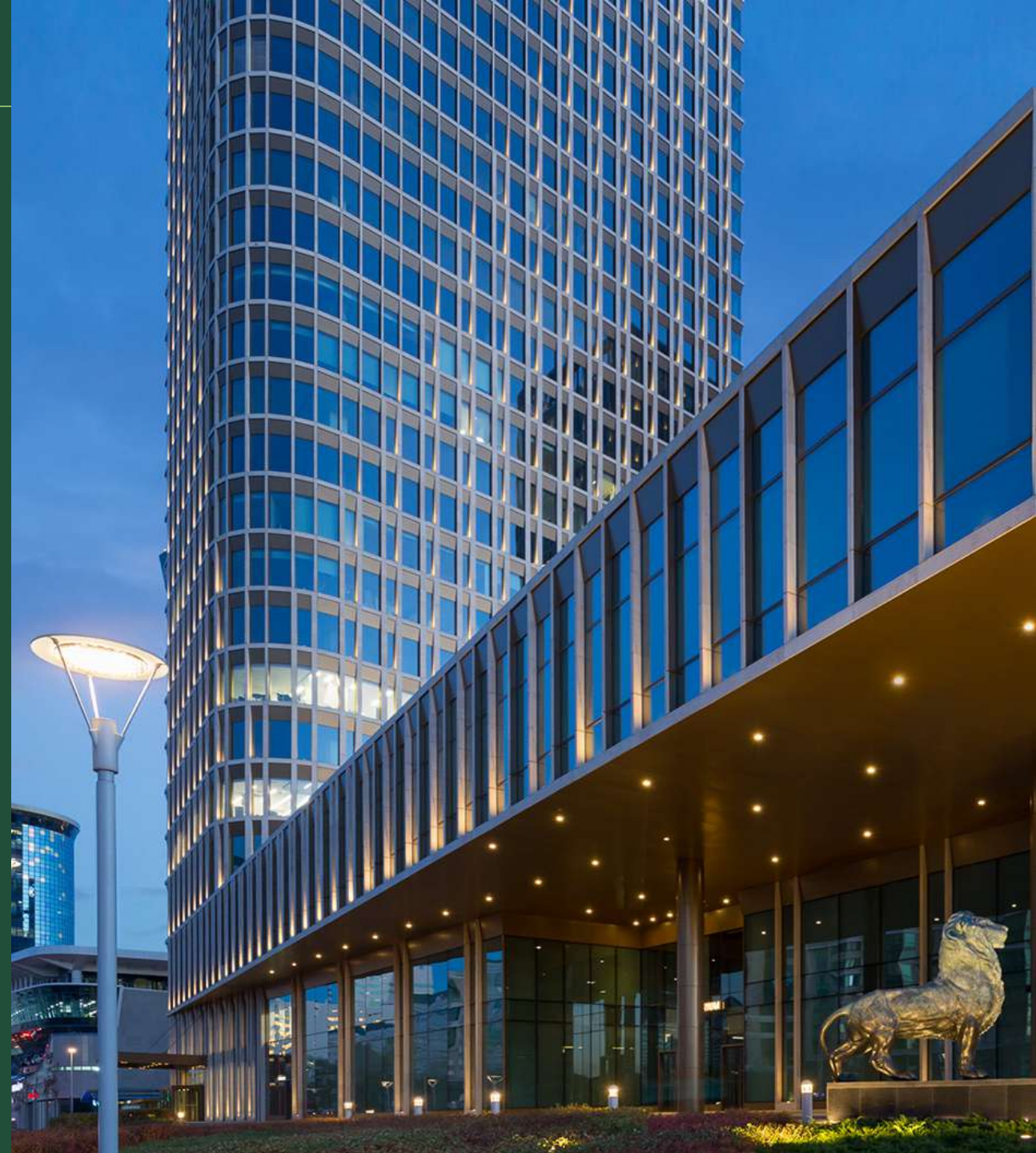
We take pride in recognizing the leaders of green construction in Kazakhstan through our annual Green Awards initiative. This special program motivates companies and professionals to continue implementing green standards, showcasing best practices, and striving for the highest results.

This year's Green Awards once again brought together outstanding industry representatives whose achievements inspire us all. Leaders in environmental assessment of buildings under the OMIR standard, as well as experts and specialists, have made significant contributions to promoting sustainable construction. These awards serve as a testament to their efforts and an example for the entire professional community. May the successes of our laureates become a catalyst for new accomplishments in sustainable construction and green transformation in Kazakhstan.

Together, we continue to advance along the path of green transformation in Kazakhstan, promoting the adoption of innovations and sustainable solutions in the construction industry.

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KazGBC

The Kazakhstan Green Building Council is a non-profit organization created by construction industry participants to accelerate the transition of the construction sector in Kazakhstan to sustainable development principles.

Our mission

Our mission is to ensure the widespread adoption of high standards of Green Building for both new and existing buildings across Kazakhstan, working in collaboration with government authorities, construction industry participants, and educational institutions.

The primary goal of KazGBC is to foster the sustainable development of the construction industry by ensuring economic prosperity, responsible use of natural resources, improved environmental conditions, and the creation of comfortable and healthy spaces for people to live and work.



Areas of Activity of KazGBC



We Build Sustainable Future for Kazakhstan



1

PARTNERSHIP WITH THE GOVERNMENT

Efforts to create incentives, benefits, and preferences for the development of Green Building at the state level

2

ENVIRONMENTAL ASSESSMENT OF BUILDINGS

Ensuring the complete cycle of building assessments under the OMIR system

3

DEVELOPMENT OF THE OMIR SYSTEM & EXPERT TRAINING

Development of OMIR standards for assessing different types of buildings at various stages of their life cycle. Training experts in environmental assessment of buildings

4

ADVOCACY AND COMMUNITY BUILDING

Promoting Green Building in Kazakhstan and creating a community of green building industry stakeholders

1

Partnership with the Government

The years 2023-2024 marked a significant milestone in the development of Green Building in Kazakhstan, laying the foundation for the widespread adoption of environmental assessment of buildings during construction and the acquisition of green financing



1

2

3

4

"Green Mortgage" by JSC "Otbasy Bank"

Residential buildings that have received a positive environmental assessment under the OMIR system have been granted access to the preferential financing program by JSC "Otbasy Bank" – "Green Mortgage".

As of October 2024, 77 multi-unit residential complexes across various cities in Kazakhstan, with a total area exceeding 1.7 million m², have received positive environmental assessments.

ЗЕЛЕНАЯ ИПОТЕКА

ПЕРВОНАЧАЛЬНЫЙ
ВЗНОС
ОТ **20%**

СТАВКА ПО ЗАЙМУ
ОТ **7%**
(ГЭСВ от 7,3% до 8,4%)

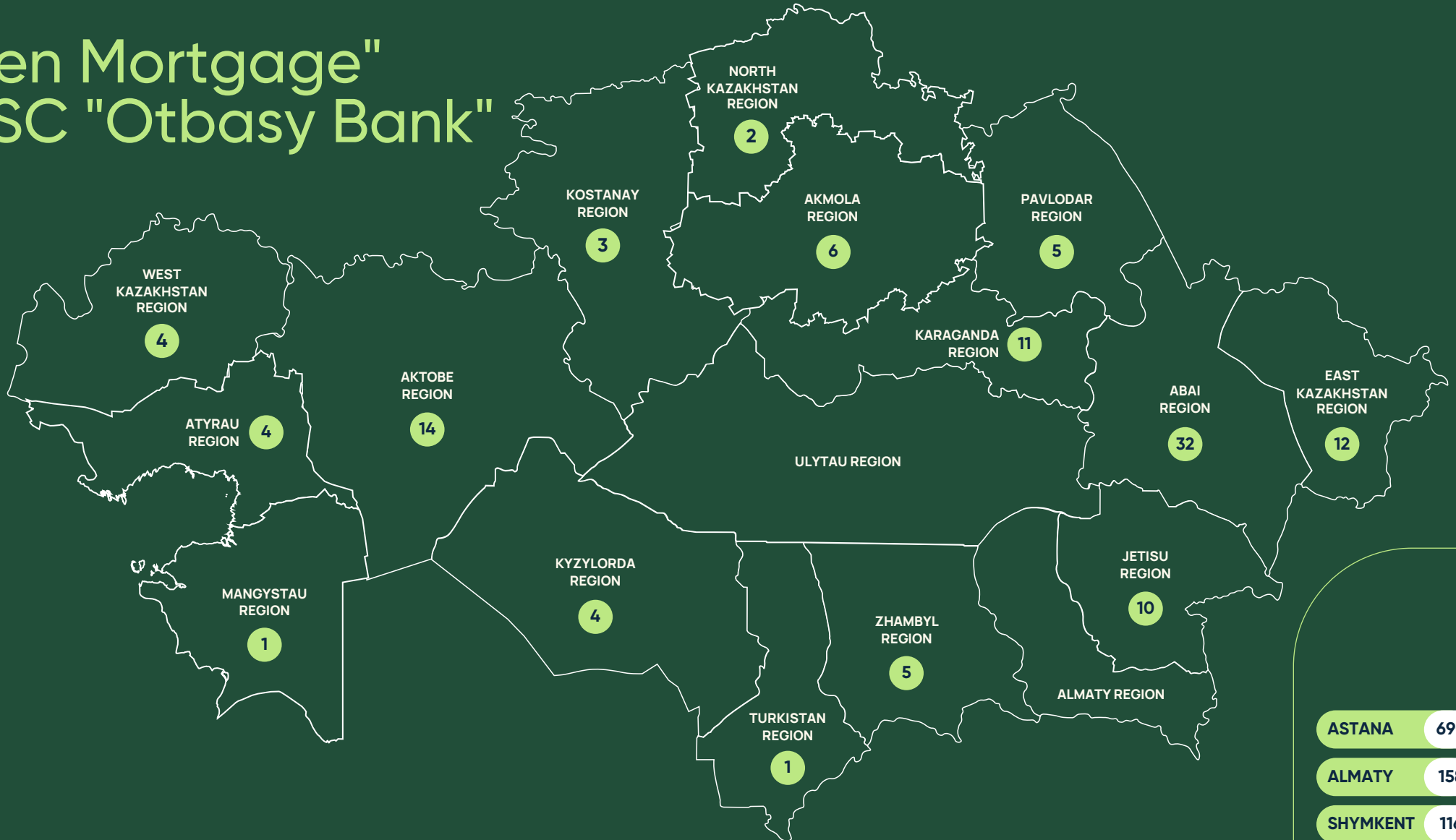
МАКСИМАЛЬНАЯ
СУММА
35 МЛН
ТЕНГЕ

ЛИЦЕНЗИЯ №1.1.111 ДАТА ВЫДАЧИ 4 ЯНВАРЯ 2024 года

More than 1,000 families
across Kazakhstan have
become homeowners
in green buildings

- 1
- 2
- 3
- 4

"Green Mortgage" by JSC "Otbasy Bank"



1078
LOANS ISSUED

76 351 M²
PROPERTY AREA

27+ BN
TOTAL LOAN
AMOUNT

ASTANA 690

ALMATY 158

SHYMKENT 116

1

2

3

4

The OMIR assessment system has been included in the "Green" projects taxonomy, under the "Green Buildings" category

The primary objective of the "Green" taxonomy is to classify environmentally-oriented projects eligible for financing through the issuance of "Green" bonds or the granting of "Green" loans

Inclusion of the OMIR system in taxonomy opens up new opportunities for participants in the construction industry to finance green development projects



1

2

3

4

→ Renewal of RK Building Code 2.04-07-2022 "Thermal Protection of Buildings"

As part of its collaboration with the government, KazGBC experts initiated amendments to the RK Building Code 2.04-07-2022 "Thermal Protection of Buildings" aimed at improving the quality of control over compliance with energy efficiency requirements for buildings after they are put into operation.

As a result of the discussions, Post-Project Analysis Guidelines were developed to assess the compliance of buildings, structures, and facilities with energy efficiency class requirements.

One of the areas of activity of KazGBC is participation in working groups aimed at improving legislation concerning the enhancement of environmental standards for new and existing buildings

1

2

3

4

Kokshetau Housing Renovation Program until 2026

In 2023, the Akimat of Kokshetau approved a housing stock renovation program for the city.

The program aims to modernize the living environment and public spaces, create favorable living conditions for citizens, and develop and enhance residential areas by demolishing outdated housing and constructing new residential buildings.

An obligatory requirement was included in this program for all buildings currently under construction to obtain an environmental assessment under the OMIR system.

In the process of implementing the Program, KazGBC acts as an independent consultant, providing recommendations on enhancing the environmental performance of buildings, utilizing green materials and equipment, as well as sustainable technologies and methods of green construction.



Cooperation with local executive bodies
is a crucial element in promoting green
construction in Kazakhstan

2

Environmental Assessment of Buildings



Environmental Assessment of Buildings

92 buildings

HAVE PASSED AN OMIR
ENVIRONMENTAL ASSESSMENT

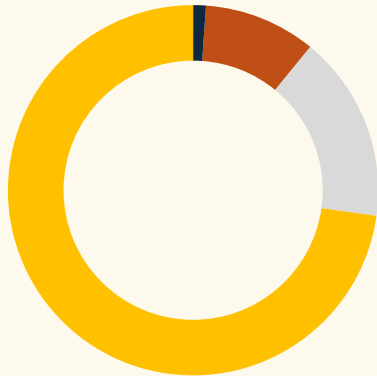
6 OFFICE

3 COMMERCIAL

83 RESIDENTIAL

TOTAL AREA

2.192.071 M²



SPLIT OF BUILDINGS
BY ASSESSMENT LEVELS

GOLD 72,8%

SILVER 16,3%

BRONZE 9,8%

PLATINUM 1,1%



Examples of OMIR-Assessed Buildings

OFFICE BUILDINGS



LLP NPF Ergonomika
**The first OMIR-Assessed
office building**

KARAGANDA

LEVEL: GOLD

POINTS SCORED: 65

Examples of OMIR-Assessed Buildings

OFFICE BUILDINGS



Ergodom
The First Organic Building in Kazakhstan

ALMATY

LEVEL: **PLATINUM**POINTS SCORED: **100**

Park View Office Tower
A-Class Business Center

ALMATY

LEVEL: **GOLD**POINTS SCORED: **75**

Examples of OMIR-Assessed Buildings

OFFICE BUILDINGS



Green Tower Business Center

ALMATY

LEVEL: **SILVER**POINTS SCORED: **53**

Pavilion B2.2 of the International Specialized Exhibition "Astana EXPO-2017"

ASTANA

LEVEL: **GOLD**POINTS SCORED: **64**

Examples of OMIR-Assessed Buildings

COMMERCIAL BUILDINGS



MEGA SILKWAY Shopping & Entertainment Center

ASTANA

LEVEL: **GOLD**

POINTS SCORED: **65**

Examples of OMIR-Assessed Buildings

COMMERCIAL BUILDINGS



Shymkent Plaza
Shopping & Entertainment Center

SHYMKENT

LEVEL: **GOLD**POINTS SCORED: **66**

Dostyk Plaza
Shopping & Entertainment Center

ALMATY

LEVEL: **GOLD**POINTS SCORED: **69**

Examples of OMIR-Assessed Buildings

RESIDENTIAL BUILDINGS



"Aruna City" Residential Complex
First OMIR-Assessed building in Kazakhstan

ASTANA

LEVEL: **GOLD**

POINTS SCORED: **62**



"Compass North" Residential Complex

ASTANA

LEVEL: **BRONZE**

POINTS SCORED: **47**

Examples of OMIR-Assessed Buildings

RESIDENTIAL BUILDINGS



"Akkent" Residential Complex

ALMATY

LEVEL: **GOLD**

POINTS SCORED: **62**



"Gate City" Residential Complex

AKTOBE

LEVEL: **GOLD**

POINTS SCORED: **62**

Examples of OMIR-Assessed Buildings

RESIDENTIAL BUILDINGS



"Green City" Residential Complex

ALMATY

LEVEL: **GOLD**

POINTS SCORED: **61**



"Bavaria" Residential Complex

AKTOBE

LEVEL: **SILVER**

POINTS SCORED: **56**

3

Development of the OMIR System and Expert Training



Development of the OMIR System and Expert Training

THE OMIR STANDARD "EDUCATIONAL INSTITUTIONS" HAS BEEN DEVELOPED

The pilot testing of this standard has been initiated at two schools in Karaganda

THE OMIR STANDARD "WAREHOUSES" HAS BEEN DEVELOPED

A pilot certification of the facility is expected in 2025

500+ PEOPLE COMPLETED
"GREEN BUILDING" TRAINING

200+ PEOPLE FROM 4 REGIONS OF KAZAKHSTAN ATTENDED
INTRODUCTORY SEMINARS FOR BUILDERS AND DEVELOPERS

300+ STUDENTS AND TEACHERS PARTICIPATED
IN SEMINARS AT 4 UNIVERSITIES IN KAZAKHSTAN

16 LECTURES ON BUILDINGS ASSESSMENT
PUBLISHED ON THE WEBSITE

TRAINED AND ACCREDITED

95 SPECIALISTS

9 EXPERTS



4

Advocacy and Community Building



Advocacy and Community Building



PARTICIPATION IN THE NATIONAL FORESIGHT

(Green Building Section), organized by JSC "QazInnovations"

MEMORANDUMS OF COOPERATION

Establishment of cooperation with key universities and construction associations of Kazakhstan, as well as with international partners from Central Asia and Russia:

- L.N. Gumilyov Eurasian National University
- Satbayev University
- Kazakh-British Technical University
- Union of Builders of the Republic of Kazakhstan
- International Educational Corporation
- Azerbaijan Green Building Council
- AirWay Startup

INTERVIEWS IN MEDIA

- Khabar TV Channel
- MIR TV Channel
- Egemen Kazakhstan
- inforburo.kz
- Kazakhstan Pravda
- Khabar 24 TV Channel
- KrysheKZ
- AGT Global
- First Channel Eurasia
- News Portal "inbusiness.kz"

ROUND TABLE

"GREEN SCHOOLS IN KAZAKHSTAN"

30 participants

ROUND TABLE ON GREEN BUILDINGS

As part of the International Forum on Energy Efficiency – 40 participants

PARTICIPATION IN THE JURY OF THE "OPEN SPACE" COMPETITION

for evaluating green building projects



ACTIVITY IN SOCIAL MEDIA (INSTAGRAM AND FACEBOOK)

- Approximately 150 posts
- Over 3000 active followers
- More than 12 000 audience reach per month

International Activities



PARTICIPATION IN WORLD GREEN BUILDING WEEK,
organized by WorldGBC
September 11-15, 2023
KazGBC presented two activities
dedicated to this event and received high
praise among WorldGBC participants



GREEN STANDARD IN AZERBAIJAN

The KazGBC team joined the working group to develop the Azerbaijani National Green Building Standard based on the OMIR standard

SIGNING OF MEMORANDUMS ON SCIENTIFIC AND PRACTICAL COOPERATION WITH PARTNERS

- KazGBC (Kazakhstan)
- UzGBC (Uzbekistan)
- UNISON Group (Kyrgyzstan)
- AzGBC (Azerbaijan)
- RuGBC (Russia)



RUSSIA / EKATERINBURG

Participation in the Construction Forum and the Exhibition "100 Technobuild"



UZBEKISTAN / TASHKENT

Participation in the International Seminar "Cooperation in the Field of Energy and Decarbonization in Central Asia" (Green Building Section)



KYRGYZSTAN / KARAKOL

Participation in the Round Table on the Establishment of the Green Building Council

Advocacy and Community Building



GREEN BUILD CENTRAL ASIA CONFERENCE

A major international event that brought together over 100 participants from 5 countries



KAZAKHSTAN GREEN AWARDS 2023 – 2024

As part of the “Green Building in Central Asia 2023” conference, an award ceremony was held to honor the best professionals and experts in the field of green building



CREATIVE CONTEST FOR CHILDREN AND YOUTH

“Green Building through the Eyes of Children”
Over 300 participants, 12 winners

KAZGBC DESK CALENDAR

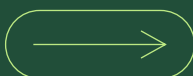
Featuring the works of the winners of the children's drawing contest (500 copies printed). The award ceremony with diplomas and commemorative gifts was held in Astana

About OMIR

OMIR is Kazakhstan's environmental building assessment system, developed with the involvement of professionals from the construction industry of Kazakhstan and international green building experts.

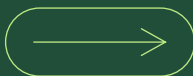
The system was created with the support of the World Green Building Council (WorldGBC) and joint UNDP / GEF / Government of Kazakhstan energy efficiency projects

USERS OF THE OMIR SYSTEM



Members of the Consortium of Participants in Kazakhstan's Green Building Industry

OPERATOR OF THE OMIR SYSTEM



KazGBC - The Kazakhstan Green Building Council



OMIR Assessment Methodology

ASSESSMENT CATEGORIES

10 categories**56 criteria****110 points**

Mandatory requirements

Requirements that must be met by the project to pass certification



Energy

Assessment for the use of energy-efficient solutions and technologies



Health

Assessment for the application of technologies and solutions that enhance internal environmental quality



Management

Assessment for the application of sustainable principles in building management



Transport

Assessment of transport accessibility and conditions for eco-friendly transport use



Ecology

Assessment for the conservation of site ecology and biodiversity



Waste

Assessment for the responsible waste management



Water

Assessment for the use of water-saving solutions and technologies



Materials

Assessment of the environmental friendliness of materials used in construction



Leadership

Incentivizing the project to achieve high environmental performance

Points and Levels of Environmental Assessment



An official statement of successful assessment is issued to projects that have confirmed compliance with all mandatory requirements and scored at least 40 out of 110 possible points



The assessment level is determined by the total number of points scored

Qola
Bronze



40-49 POINTS

Kumis
Silver



50-59 POINTS

Altyn
Gold



60-79 POINTS

Platina
Platinum



80-110 POINTS

Environmental Assessment Process

1 APPLICATION SUBMISSION

A specified application form is submitted, providing information about the designed building and the points it aims to achieve

2 PRELIMINARY ASSESSMENT

Assigned to the building at the design stage based on the evaluation of the submitted project documentation

3 FINAL ASSESSMENT

Granted upon the building's commissioning based on the evaluation of construction results and photographic evidence

4 VERIFICATION

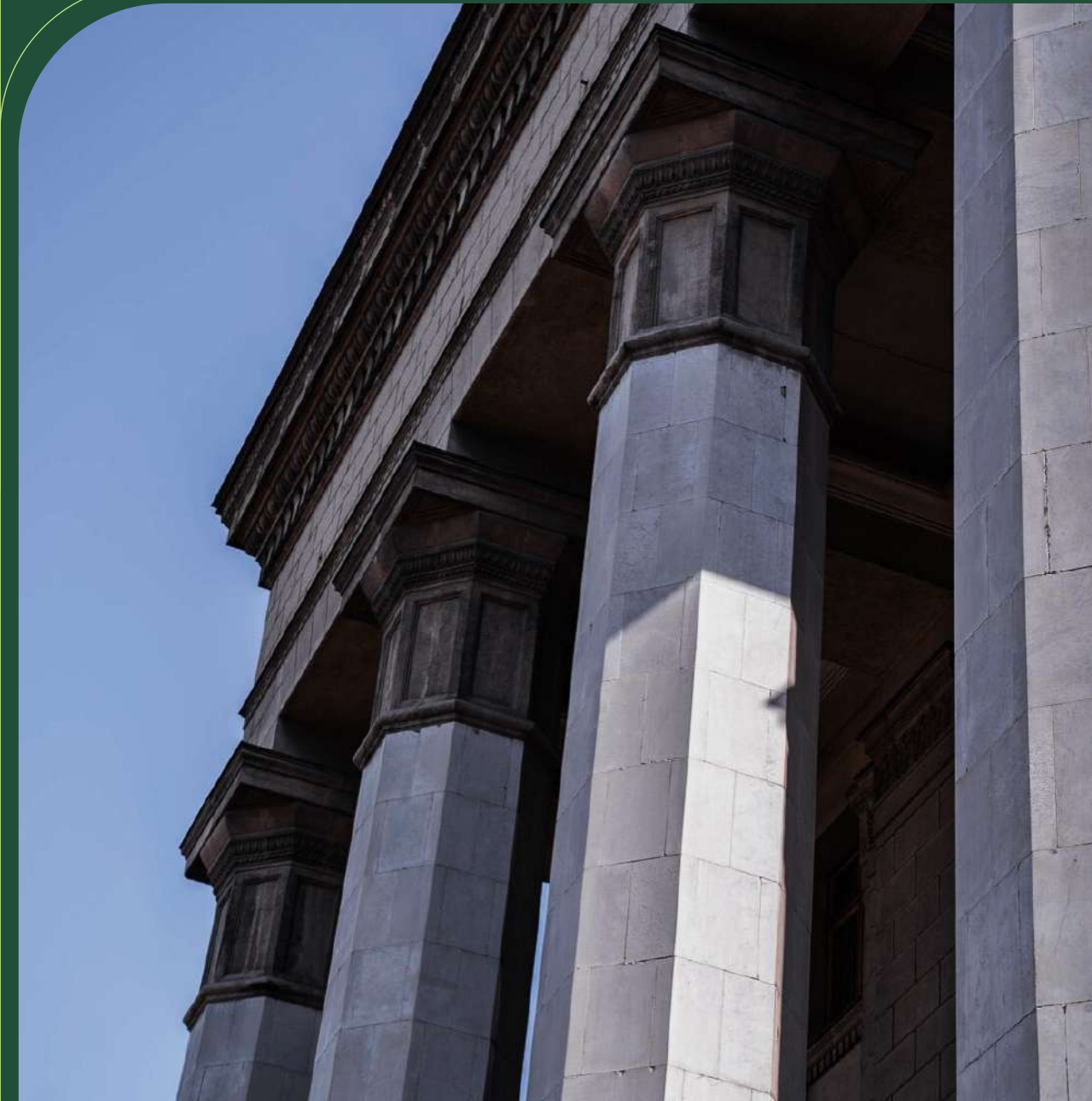
Conducted two years after the building is commissioned to confirm that the actual performance metrics of the building match those declared during the environmental assessment



KazGBC Partners

The Kazakhstan Green Building Council operates with the support of participants in the construction industry and leading universities of Kazakhstan, recognized for their contributions in promoting and applying sustainable development principles

Visit kazgbc.kz for the full list of partners



Platinum Partners



HAYAT CONSTRUCTION GROUP



LEADER ENGINEERING COMPANY



AYT HOUSING COMPLEX



KANFAR BUILDING



GRAND BUILDING GROUP



ARAI NADZOR



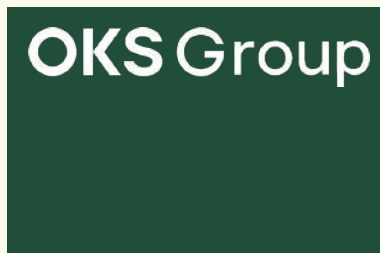
BAZIS-A



SMART CONSTRUCTION GROUP



ATQ CORPORATE



OKS GROUP



MG CITY



BURO VERITAS KAZAKHSTAN

Gold Partners



SHAR QURLIS



SENSATA GROUP



Sat-NS

SAT-NS

BAVARIA
CONSTRUCTION

BAVARIA CONSTRUCTION



GLOBAL EXPERT
DEVELOPMENT GROUP

Silver Partners



ARUNA GROUP

BUSINESS
BUILDING CO

BUSINESS BUILDING CO

Social Partners



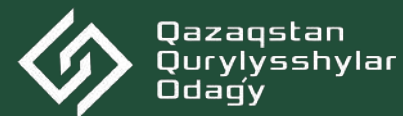
**L.N. GUMILYOV EURASIAN
NATIONAL UNIVERSITY**



**THE INTERNATIONAL
EDUCATIONAL CORPORATION**



**THE ALMATY UNIVERSITY
OF POWER ENGINEERING
AND TELECOMMUNICATIONS**



**UNION OF BUILDERS
OF KAZAKHSTAN**



**KAZAKH-BRITISH
TECHNICAL UNIVERSITY**



**KAZAKH NATIONAL
RESEARCH TECHNICAL
UNIVERSITY**

KazGBC Team



Daniyar Azymkhanov
Founder and Director

Entrepreneur, financier, founder and director of KazGBC, facilitator of KazGBC's integration into the WorldGBC, initiator and co-developer of Kazakhstan's Green Building Assessment System OMIR



Alexander Bely
Executive Director

Ph.D, International expert in low-carbon development, decarbonization, energy efficiency, housing and utilities, and the environment with over 20 years of experience. Expert in green construction. Associate Professor, and Academician of the International Academy of Real Estate and Mortgage (MAREM) since 2015



Diyaz Bayseitov
Development Director

MSc, Ph.D. candidate, Expert in solar energy, Expert in green construction. Winner of the EXPO-2017 competition, finalist of CleanTech Open 2017 (USA), DENA SET2018 (Germany), recipient of the New Energy Leader 2018 title from the Asian Development Bank and the UK Alumni Award 2023 in Science and Sustainability (UK Council) for promoting eco-friendly buildings and clean energy sources in the country



Ayman Shopaeva
Technical Director

Expert in green construction, energy efficiency, energy-saving, and a qualified certified expert in conducting examinations of urban planning, pre-design, and design-estimate documentation on engineering networks and systems, as well as in conducting technical inspections of buildings. Certified Energy Manager of the International Association of Energy Engineers (AEE) since 2014

KazGBC Team



Vitaliy Puzyi

Green Building Expert

Environmental Engineer with over 20 years of experience in the energy sector. Certified Energy Auditor, member and Certified Energy Manager (CEM) of the Association of Energy Engineers (AEE, USA)



Serikbolat Yesengabulov

Green Building Expert

PhD in Technical Sciences. Professional knowledge in the field of energy audits of civil buildings and structures. Member of the American Association of Energy Engineers.



Ainur Amirkhanova

Procurement and Contract Specialist

Experience in energy efficiency projects and utilities, mining sector. Knowledge in procurement processes, contract preparation and management, budgeting, and reporting. Skills in the development of business processes and project documentation. Certified International Procurement Professional



Zhaniya Saimbetova

PR Specialist

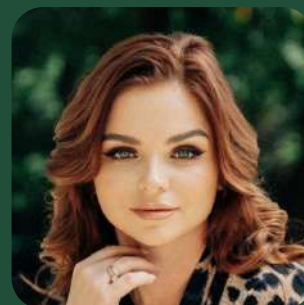
Experience in creating and implementing public projects in the fields of ecology and sustainable development. Professional expertise in SMM, media, project management, and evaluating the effectiveness of PR campaigns. At the Council, is also responsible for partner communications and organizing events at various levels



Zhannat Bekbolatova

Green Building Expert

Master of Technical Sciences. Professional expertise in the field of industrial energy audits. Experience in electrical power supply design. Expertise in lighting engineering / design. National expert in energy audits and energy management. Member of the American Association of Energy Engineers



Yulia Nigmatulina

Accountant-Entrepreneur

Financier, certified accountant, founder of the largest community of investors in Kazakhstan



kaz gbc

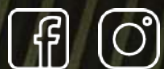
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