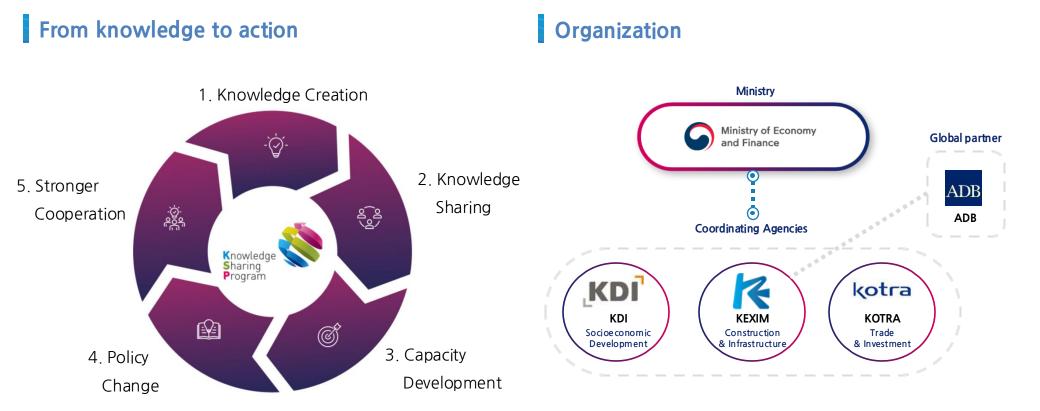


(2024/25 KSP-ADB Joint Consulting) Armenia Green Urbanization : Advancing Energy Efficiency in Building Partnership Seminar \_ CBS (Care Building Service) 2025. 03. 04 (Tue)

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# 1. KSP(Knowledge Sharing Program)



- Knowledge Sharing Program (KSP) is a platform for development cooperation, aiming to share knowledge with partner countries and develop a solid foundation for the expansion of economic and political cooperation
- Our mission is to contribute to the inclusive socio-economic development of partner countries and promote strong and close economic







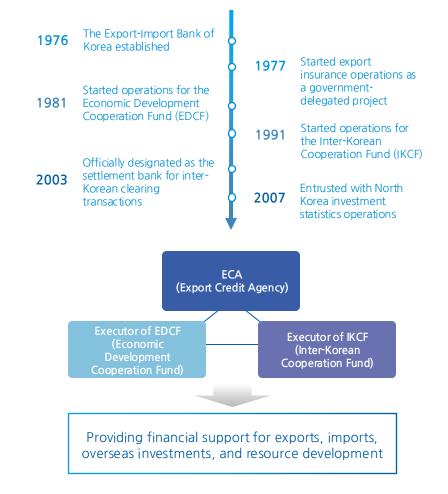
# 2. The Export-Import Bank of Korea

## Overview



 The Export-Import Bank of Korea was established to promote the sound development of the national economy by providing financial support for exports, imports, overseas investments, and overseas resource development, as well as other international economic cooperation activities

### The History and Roles











## 3. The Project Execution Organization

## I. Introduction

### Sangmyung university



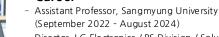
### Project execution organization

#### Project execution organization

#### Degree

- Ph.D. in Energy Grid Engineering, Sangmyung University (Specialization: Power and Energy Engineering), February 2019
- M.S. in Architecture, Seoul National University (Specialization: Architectural Environmental Systems), February 2011
- B.S. in Architecture, Seoul National University, February 2004

#### Career



- Director, LG Electronics / BS Division / Solution Business Unit / Vertical Business Office (January 2015 - August 2022)
- Senior Consultant, LG CNS / Entrue Consulting Division / Industry Department / Smart Green Group
- Principal Investigator
- LEE SOON MYUNG
- Industry Department / Smart Green Group (January 2011 - December 2014) - Director of Research Institute, RainbowScape Co., Ltd. / Environmental & Ecological Research Institute

(October 2005 - December 2010)



Research Assistant PARK SEONG HO



Research Assistant LEE SUNG HYUN

#### Degree

- M.S Program in Energy Grid Engineering, Sangmyung University

- B.S. in Electrical Engineering Sangmyung University, August 2024







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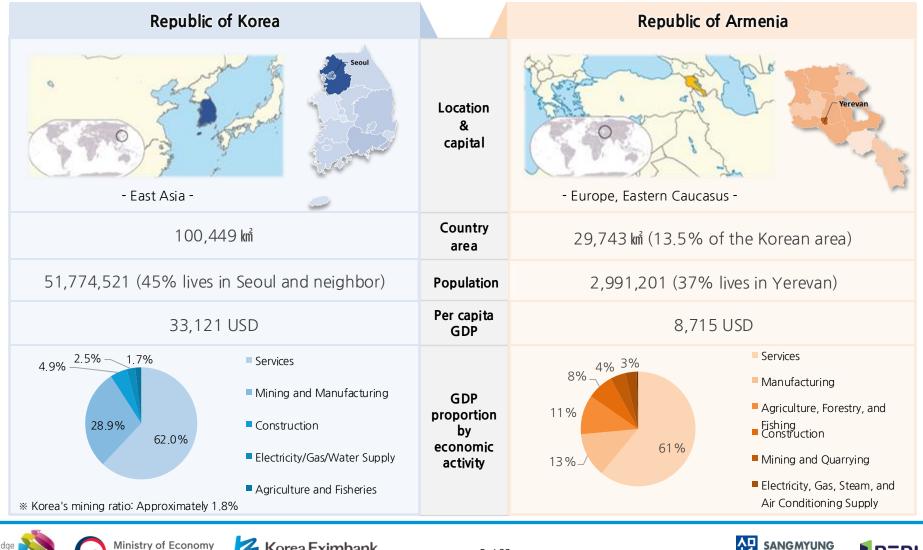




# 4. Country Overview

I. Introduction

### Overview





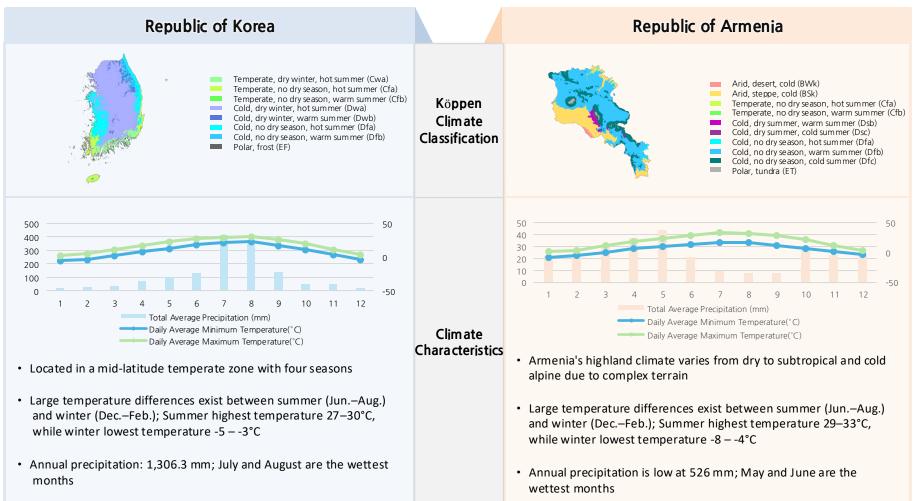
and Finance



# 4. Country Overview

## I. Introduction

### Climate













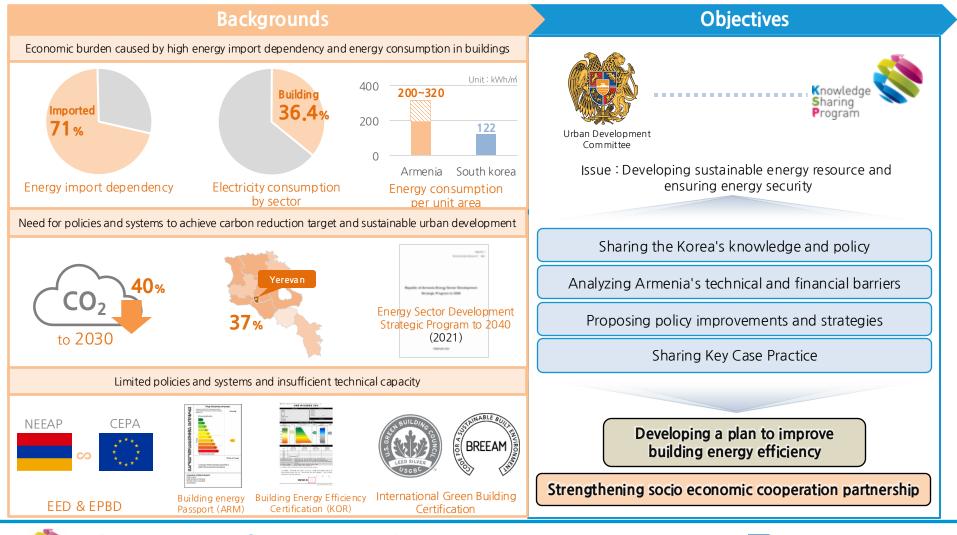
## 1. Backgrounds and Objectives

Ministry of Economy

and Finance

## **II. Armenia KSP Project Information**

## KSP Armenia 24/25







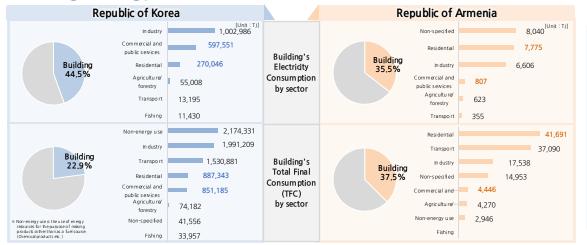
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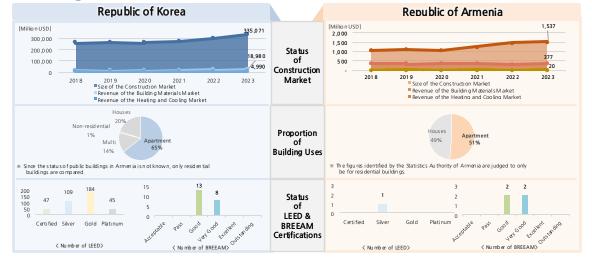
## 2. Project Background Data Analysis

# **II. Armenia KSP Project Information**

## **Building Energy**



### Building and construction market



#### **Check Point**

- In South Korea, the residential sector accounts for 11.7% of total energy consumption. The commercial and public services sector accounts for 11.2%, making the building sector's total share 22.9%.
- In Armenia, the residential sector accounts for 33.9% of total energy consumption. The commercial and public services sector accounts for 3.6%, making the building sector's total share 37.5%.
- It can be observed that **both countries have high electricity consumption** and **TFC in buildings**.

#### **Check Point**

- South Korea's construction, building materials, and HVAC markets are significantly larger than Armenia's, with the construction market about 218 times, building materials market 56 times, and HVAC market 249 times bigger in 2023.
- In both South Korea and Armenia, over half of the buildings are apartments (65% vs. 51%).
- South Korea has significantly more LEED (385 vs 1) and BREEAM (21 vs 4) certified buildings than Armenia, showing that South Korea is more developed in building energy efficiency certifications than Armenia.











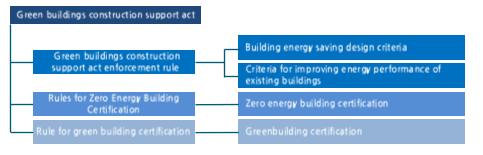
# 2. Project Background Data Analysis

## **II. Armenia KSP Project Information**

## Legislation & certfication system



#### • Legislation



#### Certification system

Bu	ilding energ certifica	gy efficiency ation		energy building certification	Greenbuilding certification					
<ul> <li>The grade is calculated by evaluating the building's energy consumption for heating, cooling, and hot water supply, as well as CO<sub>2</sub> emissions</li> </ul>			<ul> <li>Zero-er certifica from 1 on ener rate</li> </ul>	<ul> <li>Certification is granted to buildings that contribute to energy conservation and environmental pollution reduction throughout the entire process, including design and construction</li> </ul>						
Class		nergy consumption (kWh/myear)	Class	Class energy self-sufficiency		Residential				
1+++	Residential less than 60	Non-residential less than 80		rate	Green Grade	New	Existing	Green		
1++	60≤, < 90	80≤, < 140	ZEB 1	Morr than 100%				renouening		
1+	90≤, < 120	140 ≤, < 200	ZEB 2	80% ≤, < 100%	1	74≤	69≤	69≤		
1	120 ≤, < 150	200 <, < 260		0070 3, 10070						
2	<u>150 ≤, &lt; 190</u> 190 ≤. < 230	<u>260 ≤, &lt; 320</u> 320 ≤, < 380	ZEB 3	60% ≤, < 80%	2	$66 \le$	61≤	61 ≤		
4	230 ≤. < 270	380 ≤. < 450				50 A				
5	270 ≤, < 320	450 ≤, < 520	ZEB 4	40% ≤, < 60%	3	58≤	53≤	53≤		
6	320 ≤, < 370 370 ≤, < 420	520 ≤, < 610 610 ≤, < 700	ZEB 5	20% ≤, < 40%	4	50≤	45≤	45≤		



#### • Legislation

#### HO-217 RA Law on Urban Planning

RAMN 24-02-2022 'Ensuring Energy Efficiency of Buildings, Energy Efficiency Assessment Indicators'
RAMN 24-01- 2016 'Thermal Protection of Buildings'
'Consulting Manual on Technical Solutions for Insulation of Newly Built and Reconstructed Residential, Public and Industrial Buildings'
RASN II-7,02-95 'Construction Thermophysics of Building Enclosing Structures'
RAMN IV-12.02.01-04 'Heating, ventilation and air quality improvement'

#### • Certification system

#### Energy Efficiency Assessment Indicators

 Class is calculated based on heating and ventilation energy consumption and deviations from the reference values

Building	Class	Class name
	A++	
	A+	Very high
New	А	
	B+	11 sh
	В	High
	C+	
	С	Normal
	C -	
e	D	Low
Existing	E	Very low

- EE Class
- Class is calculated based on final energy consumption per 1m<sup>2</sup> and deviations from the reference values

Class Mard	Class name			
А	Very high			
В	High			
С	Average			
D	Normal			
E	Low			
F	Slightly low			
G	Verylow			











## 2. Project Background Data Analysis

### Energy Efficiency Rating Systems for Buildings

	Building E	nergy Efficiency Certification				'Ensuring E	N 24-02-2022 (EE Class) Energy Efficiency of Buildin		
				Energy Efficiency Assessment Indicators'					
A system for ev	aluating and certifying t		This co	This construction norm is applied to evaluate the total energy consumption					
assesses energy	requirements for heating	g, cooling, and hot water supply, as well as	Overview	building	gs through ca	lculations and mea	surements, calculate energy eff	iciency, and	
CO <sub>2</sub> emissions, k	based on building design	documents, and assigns grade		assess t	the suitability o	of primary energy or	final energy indicators		
	sting residential buildings sting non-residential buik	Target	<ul> <li>Newly constructed residential and public buildings and their complexes</li> <li>Residential, public, and industrial facilities reconstructed or undergoing energy modernization based on state budget funds</li> </ul>						
	<ul> <li>Evaluation of energy requirements for heating, cooling, and hot water supply, as well as CO<sub>2</sub> emissions, to determine the building's grade</li> </ul>			Class is calculated based on final energy consumption per 1m <sup>2</sup> and deviations from the reference values					
Class	Annual primary energy consu Residential	mption per unit area (kWh/myear) Non-residential	Energy		Class	Class name	Deviations from Energy limit and the reference values[%]		
1+++	less than 60	less than 80			А	Very high	< - 50		
1++	<u>60≤, &lt; 90</u>	80≤, < 140	efficiency		В	High	-50≤, < -20		
1	<u>90 ≤, &lt; 120</u> 120 ≤, < 150	<u>140≤, &lt; 200</u> 200≤, < 260	enterency		С	Average	-20 ≤, < 0		
2	150≤, < 190	260 ≤, < 320	class		D	Normal	0≤, < 20		
3	190≤, < 230	320≤, < 380			E	Low	20 ≤, < 35		
	230≤, < 270 270≤, < 320	<u>380≤, &lt; 450</u> 450≤, < 520			E				
6	320 ≤, < 370	520≤, < 610			I	Slightly low	35≤, < 50		
7	370≤, < 420	610≤, < 700			G	Verylow	50≤		
1. New and existing residential buildings       2. Property tax: 5 years after Certification         - Floor Area Ratio (FAR)       G-SEED Green1 class         - Building Height Limit       1         1       7%         3%									
Relaxation Conditions	Maxim um Relaxation Rate	3. Acquisition Tax	Incentive				_		
1++	6%	G-SEED Green1 class G-SEED Green2 class							
1+	3%	1+         10%         7%           1         7%         3%							









### Building Energy saving design criteria

Country		Republic of Korea	Republic of Armenia				
Law		Building Energy saving design criteria	RAMN 24-01- 2016 'Thermal Protection of Buildings'				
Applicable	Buildings with a	a total floor area of 500m or more	Residential, public, industrial, agricultural and storage buildings and warehouses will an area of 50m or more under construction and reconstruction				
		General Insulation Measures	<ul> <li>Insulation conditions of buildings and storage structures</li> <li>Dew point requirements</li> </ul>				
	Mandatory	Measures to prevent confidentiality and condensation	<ul> <li>Amplitude of temperature fluctuations in cladding structures in summer</li> <li>Standard values of heat transfer coefficients for UV protection equipment</li> <li>Standard values of air permeability of external skins</li> </ul>				
Construction sector		Installation of insulation in floor heating	<ul> <li>Floor surface finishes (standard heat absorption index)</li> <li>Energy performance assessment of buildings (standard values of heat energy for heating and ventilation) for buildings by purpose</li> </ul>				
		Site Planning					
		Floor plan					
	Recommended	Insulation plan	Allowable thickness of insulation				
		Airtight plan					
		Natural Lighting Plan					
	Mandatory	Design Outdoor Conditions					
	Warractory	Heat Sources and Transmission Equipment	• Air circulation in buildings (Standards for air permeability of cladding structures)				
Mechanical		Design Indoor Temperature Conditions					
sector		Heat Sources facilities					
360101	Recommended	Ventilation and control facilities					
		Transfer facility					
		Air conditioning equipment					
		Substation Equipment					
	Mandatory	Transmission and Power Equipment					
Electrical		Lighting Equipment					
equipment		Substation Equipment					
sector		Transmission and Power Equipment					
SECIOI	Recommended	Lighting Equipment					
		Control facility					
		Building Energy Management System (BEMS)					
New and renewable energy	Mandatory	<ul> <li>When installing new and renewable energy facilities in a building, comply with the 'Regulations on Support for New and Renewable Energy Facilities' announced by the Ministry of Trade, Industry and Energy.</li> </ul>					
equipment sector	Recommended	<ul> <li>When designing heating, cooling, hot water supply and lighting energy supply, new and renewable energy is selectively adopted in accordance with the provisions of Article 15.</li> </ul>					









# 3. Key Activities

## 5 key activities

	Details
	<ol> <li>Research on the Institutional Status of Armenia and Korea and Proposal for Improvement Strategies</li> <li>Research on legislation and systems related to energy efficiency and building evaluation in Armenia         <ul> <li>Including a comparative analysis of legislation and systems in Armenia and Korea</li> <li>Proposal of development strategies for Armenia based on analysis of legislation and systems in Armenia and Systems in Armenia and Korea</li> </ul> </li> </ol>
	<ul> <li>2. Analysis of the Armenian market and comparative research with Korea</li> <li>Market research on building energy efficiency enhancement sector and recycling resources green building sector</li> <li>Market research and comparative analysis of Armenia and Korea</li> <li>Including analysis of industrial ecosystem and key stakeholders in green building sector</li> </ul>
Key activities (5)	<ul> <li>Analysis of barriers to green building expansion</li> <li>Analysis of barriers to green building expansion in Armenia, including financing, technological capabilities, and market awareness</li> <li>Proposal of strategies for green building sector expansion based on barrier analysis</li> </ul>
(5)	<ul> <li><b>4. Publish a collection of project case studies and benchmarking</b></li> <li>• Research of successful green building project cases in Armenia and related regions</li> <li>• Proposal of practical solutions for achieving energy efficiency</li> </ul>
	<ul> <li>5. Hosting Armenia policy practitioners' workshop in Korea</li> <li>Invitation of experts from the Armenian Urban Development Committee and related fields for training</li> <li>Midterm progress report on domestic research and collection of feedback from the Armenian Urban Development Committee and field experts</li> <li>Field visits to domestic sites related to building energy efficiency and green buildings</li> <li>Meetings with institutions and companies related to building energy efficiency (e.g., solar power, heat pumps, EMS, etc.)</li> </ul>





2

Korea Eximbank



주식회사 레플러스

# 4. Schedule

## **II. Armenia KSP Project Information**

## 4 Major event (proposed)

	25.1	25.1 25.3 25.4 25.6 25.7		25.8	25.9		
	Research & Investigation	Launching Seminar & 1st Field survey	2 <sup>nd</sup> Field Survey & Seminar	Interim Report Pre-evaluation (only researcher)	Interim Seminar & Policy Practitioners' Workshop	Final Report and High-level Policy Dialogue	Project completion report
Proposed date		3/1~3/6	3/31~4/4		During 6/30~7/25	During 8/11~8/29	
Location	Korea	Armenia	Armenia	Korea	Korea	Armenia	Korea
Activities	<ul> <li>Desk research</li> <li>Research on the market, Industry ecosystem, and key players</li> <li>Comparative analysis of the legislation and certification system</li> <li>Identification of barriers to growth in the green building sector</li> <li>Project case studies</li> </ul>	<ul> <li>KSP launching seminar</li> <li>Discussion of project details and plans through a report on the KSP project implementation plan</li> <li>Communication with Armenia's local analysis collaboration organization</li> </ul>	<ul> <li>Field study in Armenia</li> <li>Meeting with the Armenian Urban Development Committee</li> <li>Conducting field investigations and surveys</li> <li>Reporting on the progress of the research and sharing necessary information</li> </ul>	<ul> <li>Interim research evaluation</li> <li>Reflection of modifications through preliminary evaluation of interim reports</li> <li>Collection of opinions from The Export-Import Bank of Korea and relevant representatives</li> </ul>	<ul> <li>Capacity building program in Korea</li> <li>Visiting three or more private zero- energy buildings in Korea</li> <li>Meeting with Korean policy makers and companies</li> <li>Building practical action plan considering local context</li> </ul>	<ul> <li>Final seminar</li> <li>Research for potential improvements via simulations</li> <li>Presentation of final research results and Proposal of action plan</li> </ul>	<ul> <li>Closing report</li> <li>Submission before contract completion</li> <li>Summary of business overview, main execution processes, business performance evaluation, etc.</li> </ul>











## Care Building Services LLC





#### **CBS** Care Building Services LLC

- 💊 +374 (60) 617 617 | +374 (77) 57 17 57
- ⊠ cbs@cbs-construction.am
- Malkhasyants 4, Yerevan, Armenia
  - Cbs-construction.am
- Company Overview
  - Established in 2012, providing a wide range of services as a general construction company
  - Originally established as an engineering company specializing in HVAC and building automation control systems, quickly expanding into all areas of construction and engineering. Acquired specialists and resources to handle projects of any complexity, evolving into a fullfledged construction firm
  - Experience and interest in green construction, including projects related to LEED, BREEAM, and building energy performance evaluation in Armenia

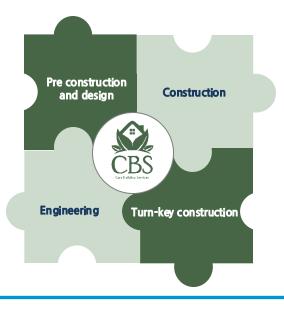






#### Services

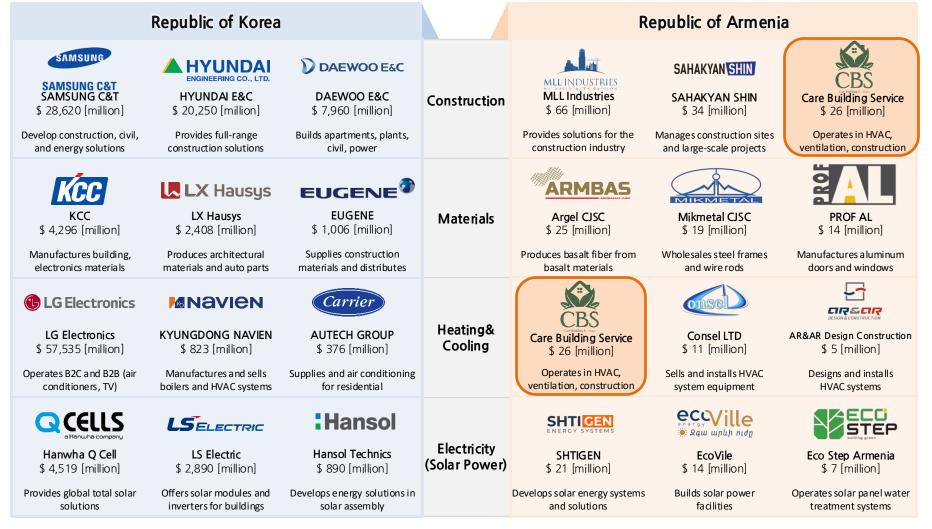
- CBS offers comprehensive construction solutions, covering all project phases from pre-construction planning and design to engineering, construction, and turn-key project delivery
- CBS has a large team of specialists across various fields, with one of its key differentiators being deep expertise in engineering infrastructures as well as civil construction, providing a wide range of services from residential to industrial construction







#### Major players in construction industry (Top 3 by revenue in 2023)











# III. Cooperation - CBS (Care Building Services LLC)

## **Projects**

Avedisian High School project



#### Armenia's First LEED-Certified Building

Achieved Silver certification in 2019

Start Date: October 10, 2012

Completion Date: August 31, 2014 Total Area: 8,400 m<sup>2</sup>

All major engineering and structural work was performed by CBS's in-house team

#### Solutions

- Application of efficient HVAC systems
- Introduction of a unique solar hot water system
- Use of polyurethane thermal insulation
- Installation of LED lighting
- Optimized architectural design with suitable windows and walls
- Light-colored roofing and green space development
- Installation of underground rainfall collection areas
- Recycling of concrete waste to produce concrete tiles
- Use of environmentally friendly materials for finishing, indoor air quality, and natural lighting









Dilijan International School of Armenia



#### Armenia's First BREEAM-Certified Building

Be assigned a 'good' level in BREEAM rating of eco-efficiency of buildings.

CBS participated in this project and was contracted to design the electrical infrastructure, as well as all communication and control systems for the school and campus buildings

#### Solutions

- Design of Building Automation System (BAS)
- Design of electrical supply system
- Design of CCTV security
- Design of access control systems
- Design of fire alarm systems













## **Projects**

Multi-story house at Malkhasyants 6/1



#### 14-story residential building and A multi-level parking building

	Malkhasyants 6/1 Street		
CBS LLC	Developer / Designer / Main Contractor		
Area of 1 Floor	1,131m <sup>2</sup>		
Area	28,000m <sup>2</sup>		
<b>Construction Period</b>	2021 Jun - 2024 Jun		
Floors Above Ground	14		
Floors Below Ground	1		
Ceiling Height (m)	3		
	Features		

- Participates in the national mortgage program
- A + class energy saving buildings, which allows to reduce energy costs by 50%
- Power supply station with 2 different power supplies,
- All apartments have floor-to-ceiling stained glass windows with aluminum thermal frames
- Only high-quality construction materials are used



#### Building Certification Case

Building certification	Descrpition
And the second s	A Building Energy Efficiency Certification issued based on Armenian Standard HST 362-2013 <b>Rating</b> A+ Rating <b>Additional Information on Building</b> <b>Insulation and Energy Conservation</b> Exterior walls: Insulated Roof: Insulated Floor: Insulated
	Annual Energy Consumption of the Building (27.6 kWh/m)
	<b>Building Address</b> : Republic of Armenia (RA) Yerevan, Arabkir Administrative District, Mamikonyants Street, Building No. 12/2
Street view of address	Issuance Date: June 15, 2020 Issuing Organization: 'AE Consulting' LLC











## Meeting agenda

#### Purpose

: Green building & Building Energy Efficiency Assessment case study and Gathering opinions

Key activities	Assessment of Current Armenian Market Status and Comparative Survey with the Korean Market									
Task	Market research on improving energy efficiency of buildings and recycling green buildings									
Related CBS projects	Avedisian High School Dilijan Interr project School of A							uilding certification case		
Main agenda	Analysis of the LEED certification process, application of eco- friendly technologies, and operational performance of the Avetisyan High School project	Expert consultation on key evaluation criteria and weightings for the introduction of a green building certification system in Armenia		Discussion expansion buildings a efficiency in from the pe of construct HVAC com	of green nd energy n Armenia erspective ction and	Review of the possibility of including success green building project cases and related data in the KSP casebook		Request for details on the operation, criteria, procedures, and market response of Armenia's building energy efficiency certification system		







## Questions

#### Agenda

Advised on Armenia's construction market, energy efficiency industry, major companies' performance, and market size analysis

Research Items: List of LEED and BREEAM certified buildings in Armenia

- The Avetisyan High School project is the first building in Armenia to achieve LEED certification, and it has been confirmed that it complies with local and international environmental laws and standards. Specifically, it has been reported that efficient heating, ventilation, and air conditioning systems, solar water heating systems, insulation application, LED lighting, roof color adjustment and green space creation, rainwater collection space, concrete waste recycling tile utilization, and eco-friendly material use were implemented. We would like to know if there were any difficulties in this process and what the actual effects were.
- 2. LEED certification consists of evaluation categories such as sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, innovative design, and regional priority. Based on the experience of the Avetisyan High School project, we would like to hear your opinion on which category is expected to have a higher evaluation weight if a green building certification system exists in Armenia.











### Questions 1, 2 Reference - Avetisyan High School Project

#### Agenda

Advised on Armenia's construction market, energy efficiency industry, major companies' performance, and market size analysis

#### • Avedisian High School project

	Armenia's First LEED-Certified Building	Site Photo	
	Achieved Silver certification in 2019		
	Start Date: October 10, 2012		
	Completion Date: August 31, 2014 Total Area: 8,400 m		
All major engineering and structural work was performed by CBS's in-house team			
Solutions			
Application of efficient HVAC systems			
<ul> <li>Introduction of a unique solar hot water system</li> </ul>			
Use of polyurethane thermal insulation			
Installation of LED lighting			
<ul> <li>Optimized architectural design with suitable windows and walls</li> </ul>			
<ul> <li>Light-colored roofing and green space development</li> </ul>			
Installation of underground rainfall collection areas			
Recycling of concrete waste to produce concrete tiles			
-	friendly materials for finishing,		
indoor air quality, and n	atural lighting		









## Questions

#### Agenda

Advised on Armenia's construction market, energy efficiency industry, major companies' performance, and market size analysis

Research Items: List of LEED and BREEAM certified buildings in Armenia

- 3. To expand green buildings and improve building energy efficiency in Armenia, as a major company in the construction and HVAC sector with experience in green building and energy efficiency projects, we would like to ask if you could share your opinions on areas that need improvement or additional measures that should be considered.
- 4. As part of the KSP project, we plan to create a case study book benchmarking successful project cases. We would like to confirm whether it would be acceptable to include the Avetisyan High School project and other projects undertaken by your company in this study. If possible, could you share detailed materials on these projects?
- 5. We have confirmed that energy efficiency certification documents for buildings in Armenia are posted in the References section of your company's website. We request explanations regarding the relevant projects and buildings, the background of certification issuance (e.g., client requests, provision of incentives), and the certification process.











### **Questions 5 Reference**

#### Agenda

Advised on Armenia's construction market, energy efficiency industry, major companies' performance, and market size analysis

#### Building Certification Case

Building certification	Descrpition		
CONSULTING CONSULTING Building Certification	A Building Energy Efficiency Certification issued based on Armenian Standard HST 362-2013		
Certificate eluborated based on Armenian Standard HST 362-2013 is presented below: Շենկքի Էներգետիկ բնոււթագիր	Rating		
Tudialus (USIX) 2012 + elongan Langung Ling Chapt Machine Langung Chiladele groughts Huangle Res	A+ Rating		
See Statement and See Statemen	Additional Information on Building Insulation and Energy		
	Conservation		
930	Exterior walls: Insulated		
	Roof: Insulated		
	Floor: Insulated Usage: Natural		
Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproducty cardinal     Indicated veltice 2019 etcheproducty cardinal       Indicated veltice 2019 etcheproduction veltice 2019 etcheproduction     Indicated veltice 2019 etcheproduction       Indicated veltice 2019 etcheproduction     Indicated veltice 2019 etcheproductio	Annual Energy Consumption of the Building (27.6 kWh/m)		
Վարչական տեղեկատվություն	Building Address: Republic of Armenia (RA), Yerevan, Arabkir		
Շեկքի հասցեմ ԴՎ, Երևակ, Արաբկիր վարչական շրջան, Մալիսասյանց փորոց, Իրվ 122 Պիտակի տրվան անգացիվը՝ 15.06.2020 Տրամադրողը՝ «Էյի Քոնսալթիկգ» ՄՈԸ	Administrative District, Mamikonyants Street, Building No. 12/2		
	Issuance Date: June 15, 2020		
	Issuing Organization: 'AE Consulting' LLC		









## Action item

No.	Item	Due date	Owner
1			
2			
3			
4			
5			







