

Report – 2nd AAWC Climate and Water Round-table

❑ **Date and Venue:** 30 July 2025, Bishkek, Kyrgyz Republic

❑ **Hosts:**

- Asia National Assembly Water Consultative Board (AAWC)
- Jogorku Kenesh (Supreme Council) of the Kyrgyz Republic

❑ **Organizers:** Asia Water Council (AWC), K-water

❑ **Main Activities:**

- AAWC Climate and Water Round-table
- AAWC Board Meeting
- Field Visit

❑ **Program**

Date	Details	Note
29 July (Tue)	Arrival	Accommodation: Sheraton Hotel
30 July (Wed)	Day 1. Business & Technology Forum	
	Registration	Sheraton Hotel
	Overseas Project Session	Grand Bishkek Hall, L Floor
	Luncheon	Sheraton Hotel IWA Restaurant, 23 rd Floor
	Technical Seminar	Sheraton Hotel Grand Bishkek Hall, L Floor
	Exhibition Booth Guided Line Tour	
	Business Meetings	
	Welcoming Dinner	DASMIA Restaurant
31 July (Thu)	Day 2. AAWC Board Meeting & AAWC Climate and Water Roundtable	
	Registration	Sheraton Hotel
	8 th AAWC Board Meeting	Grand Bishkek Hall, L Floor
	Luncheon	Sheraton Hotel IWA Restaurant, 23 rd Floor
	Transfer (Bishkek → Issyk-Kul)	
	Arrival	Accommodation: Baytur Resort
1 Aug (Fri)	Dinner	Baytur Resort French Restaurant, 2 nd Floor
	Day 3. Field Visit	
	Field Visit	Issyk-Kul
	Transfer	Issyk-Kul → Manas Bishkek Airport

Session 1. Overseas Projects of Korea

- ❑ **Date and Time:** 30 July 2025, 09:30-12:00
- ❑ **Venue:** Sheraton Hotel, Grand Bishkek Hall, L Floor
- ❑ **Key Participants:** Parliamentarians, Related Ministries of Kyrgyz Republic and Republic of Korea, Korean Public Institutions and Water Companies, Embassies, International Organizations, etc.

Time	Details
[Session 1] Overseas Projects of Korea	
09:30-12:00	Opening : Opening Remarks (H.E. Jeoung-ae Han, AAWC President)
	Welcoming Remarks (H.E. Nurlanbek Turgunbek uulu, Speaker of the Supreme Council of Kyrgyz Republic)
	Congratulatory Remarks (Jung-ho An, Executive Vice President of K-water)
	Commemorative Photo
	[Presentations] Sharing the Current Status of Korea's Overseas Projects in Climate and Water Sector
	Coffee Break
	[Discussion] Discussion of cooperation plans / New projects among countries
	Signing of MoU between Public Institutions
	Closing Remarks (H.E. Jeoung-ae Han, AAWC President)

- **Opening Remarks:** Stressed the need for joint responses to transboundary challenges such as climate change and water scarcity, and requested active feedback to derive collaboration strategies.
- **Welcoming Remarks:** Emphasized the need for joint responses to climate and water challenges through inter-parliamentary cooperation in Asia, highlighting the importance of water resource protection and legislative efforts.
- **Congratulatory Remarks:** Underscored the importance of cross-border cooperation in addressing climate change, noting that K-water will contribute to sustainable water management based on cutting-edge technologies.
- **Presentations on Korea's Overseas Projects**

Speaker	Contents
Beom-jik Kim Director, MoE	Introduction to MoE ODA projects and international cooperation initiatives, GTI platform
Tai-whan Kim Head Specialist, K-water	Introduction to major overseas projects (ODA, investment, NDC initiatives, etc.)
Ho-joong Kim Senior Manager, K-eco	Strategies for greenhouse gas reduction projects and case studies of major overseas initiatives

Kyoung-che Lee Director General, KEITI	Introduction to international support programs (Environmental Improvement Master Plans, Green Technology Demonstration Support, etc.)
Yong-jin Jeong Director, K-EXIM	Introduction to EDCF and financial support mechanisms for overseas water infrastructure projects based on public-private cooperation
Song-hee Son Director, KOICA	Water and climate ODA strategy, NDC implementation support, and carbon neutrality framework
Seung-hack Lee Head of Water Cycle Research Center, KIST	Presentation of a science and technology cooperation model, focusing on wastewater treatment technology development in Kyrgyz Republic
Sang-hyup Yi President, NIGT	Case studies of projects linked with international organizations such as GCF and UNEP CTCN

*Please refer to the Material Book for the details.

Discussion Summary (Overseas Projects)

Kazakhstan (H.E. Dyussenbay Turganov)

- Kazakhstan, the world's largest landlocked country, faces severe water scarcity due to climate change, rising demand, and aging infrastructure. Over half of irrigation systems were built before 1980, leading to up to 60% water loss during transport, while supply remains non-automated and management/pricing inefficient.
- The proposed project aims to restore water infrastructure in the drought-prone south and southeast, enhance climate resilience, and modernize irrigation through smart water management and a Water Resource Center. Expected outcomes include 40% efficiency gains, improved food security, digital governance, job creation, and cross-border cooperation with Kyrgyzstan and Uzbekistan.

Lao PDR (H.E. Hongkham Souvannavong)

- Laos is advancing several initiatives to strengthen climate resilience and water resource management, including developing a national water resources database, restoring wetlands, implementing river basin management plans, and modernizing decision support systems for more effective governance and policy-making.
- At the same time, efforts are underway to upgrade and expand water supply systems in Phonhong, Atsaphangthong, and Phalanxay districts, aiming to provide safe, reliable, and affordable water to over 20,000 residents, improve public health, and support sustainable community development.

Malaysia (H.E. Muhammad Bakhtiar bin Wan Chik)

- Malaysia is facing a critical challenge with over 37% of treated water lost daily due to pipeline leakages, amounting to more than 7 billion liters and RM2 billion in losses annually, and the Smart NRW Reduction and Leak Detection Program aims to tackle this by installing IoT sensors, creating a real-time dashboard, and training operators in AI-powered predictive maintenance to reduce NRW to 31% by 2025 in line with WST2040 and SDG 6.
- The initiative seeks collaboration with ADB, JICA, the World Bank, the PETRONAS Foundation, the Green Climate Fund, and Malaysia's Ministry of Natural Resources, Environment and Climate Change to strengthen digital infrastructure, build technical capacity, and transform this challenge into a regional success story of smart and sustainable water solutions.

Nepal (H.E. Suhang Nembang)

- The project focuses on stakeholder mapping, risk and vulnerability assessment, localization of policies, and capacity building, with expected outputs including a water source book, vulnerability report, local guidelines, and a MEAL framework, supported by national and local governments, civil society, NGOs, and private sector partners
- The initiative seeks collaboration with ADB, JICA, the World Bank, the PETRONAS Foundation, the Green Climate Fund, and Malaysia's Ministry of Natural Resources, Environment and Climate Change to strengthen digital infrastructure, build technical capacity, and transform this challenge into a regional success story of smart and sustainable water solutions

Sri Lanka (H.E. Anuradha Jayaratne)

- Sri Lanka has advanced the Rajamale New Village Project in Gampola, Kandy District, to relocate 96 high-risk families affected by landslides, securing land and constructing new houses with government support, but despite progress, a major challenge remains as the new villages still lack access to clean drinking water.
- While the National Community Water Department has proposed a pipeline project for 300 families at an estimated cost of USD 167,000 and an alternative option costing USD 15,215, funding delays have left communities vulnerable, underscoring the urgent need for regional collaboration and policy action to ensure safe water access for all.

Uzbekistan (H.E. Boriy Alikhanov)

- The Climate Change Intensity (J) index is calculated using a formula that incorporates temperature and humidity variations, wind direction, geographic location, land characteristics, disaster occurrence frequency, and natural resource depletion rates. While the global "ideal" intensity level is 4.0, the current world average is around 8.0, with Korea maintaining a favorable level of 4.1.
- In contrast, Uzbekistan's climate change intensity is three times higher than the global average, and the Karakalpakstan region reaches 4.5 times higher, underscoring the urgent need for targeted adaptation measures.

Session 2. Business & Technology Forum

- ❑ **Date and Time:** 30 July 2025, 13:30-18:00
- ❑ **Venue:** Sheraton Hotel, Grand Bishkek Hall, L Floor
- ❑ **Key Participants:** Parliamentarians, Related Ministries of Kyrgyz Republic and Republic of Korea, Korean Public Institutions and Water Companies, Embassies, International Organizations, etc.

Time	Details
[Session 2] Business & Technology Forum	
13:30-18:00	Opening: Opening Remarks (H.E. Jeoung-ae Han, AAWC President)
	Welcoming Remarks (H.E. Daniir Tolonov, AAWC Vice President)
	Congratulatory Remarks (H.E. Torobaev Bakyt Ergeshevich, Ministry of Water Resources, Agriculture and Processing Industry)
	Commemorative Photo
	[Presentation] - ARIS: Investment Environment and Strategy of Kyrgyz Republic - GGGI: Introduction of GGGI Cooperative Project - KRC: Introduction of KRC Projects in Kyrgyz Republic - Korean Water Technology Companies
	Exhibition Booth Guided Line Tour
	[Business Meetings] - Between Kyrgyz Republic Government and Korean Water Companies

- **Opening Remarks:** Emphasized that in addressing climate and water challenges, private-sector cooperation is equally important, and expressed anticipation for the introduction of innovative solutions from Korean water companies.
- **Congratulatory Remarks:** Noted that glaciers are the main water source for the Kyrgyz Republic but are gradually declining due to the climate crisis, and called for stronger public-private partnerships through digitalization, infrastructure reform, and human resource development.
- **Introduction of the Kyrgyz Republic's Water Sector Investment Environment and Strategy**
 - (ARIS) Explained that the country is striving to modernize its aging and inefficient water supply system by attracting foreign investors, while stressing the urgent need for investment in drinking water and sanitation infrastructure. Relevant ministries: Ministry of Economy and Commerce, Ministry of Water Resources and Agro-Processing Industry. Key funding sources: international institutions such as the Islamic Development Bank, Saudi Fund for Development, World Bank, and Asian Development Bank.

■ Introduction of Korean Public Institution Projects in the Kyrgyz Republic

- (GGGI) Presented that GGGI has 18 members states in Asia, including the Kyrgyz Republic, and is implementing a project to strengthen climate resilience and manage floods and droughts through innovative smart technologies.
- (KRC, Korea Rural Community Corporation) Reported that since 2011 it has been implementing international agricultural cooperation projects under the Ministry of Agriculture, Food and Rural Affairs with an ODA character, and in the Kyrgyz Republic, it is carrying out a project to establish vegetable seed production infrastructure.

■ Presentations on Korean Water Technology Companies

Speaker	Contents
BLUELABS	Introduction of BLUELABS, Innovating water filtration with shellfish waste
ECOSTAR	Advanced Wastewater Treatment Technology using a Flow-adaptive Sequencing Batch Reactor(SBR)
Greentech INC.	Introducing Greentech INC's Smart Water Network Management System
HAESUNG Engineering	Smart Water Reuse Solutions for Kyrgyzstan in the Era of Climate Crisis
KOMOTO	Introduction of Solar-Internet Fluid Control System and IoT-based flow control systems
O2&B	Carbon-Neutral MCDI-Based Water Purification System and Sustainable Regional Water Supply Model
REC's Innovation	ESS Integrated energy management platform Construction of Microgrids to Alleviate Power Shortages in the Kyrgyz Republic
Rio Energy	Flow-type Modular Small Hydropower System Utilizing Flowing Water Resources
Saman Corp.	Project for establishing a master plan for water and wastewater systems in the Jalal-Abad region
SAMJIN	Application Fields of SAMJIN's Products and Services

*Please refer to the Material Book for the details.