



KNOWLEDGE EXCHANGE | KOREA GREEN INNOVATION DAYS 2019 HIGHLIGHTS

Multisector Knowledge Exchange Programs, Sept 23 – 25

In September 2019 KGGTF facilitated 10 parallel Knowledge Exchange programs for World Bank partner countries and staff. 87 officials from 14 developing nations met with 68 Korean institutions and visited technical sites related to the following topics:

Eco-industrial Park Manufacturing, Land Administration/Cadastre, Urban Development and Geo-spatial Data, Urban Mobility, Renewable Energy, Rooftop PV, Energy Efficiency, Coastal Management, Fishery, and Smart Water.

KGGTF designed bespoke technical agendas to meet the specific needs of participating countries, including meetings with Korean government ministries and institutions, presentations from private companies in relevant fields, and site visits led by technical specialists. Delegates had the unique opportunity to learn about Korea's Green Growth journey first hand, ask country specific, practical questions and connect with a network of experts and leaders from Korea and many other countries to share ideas and experiences and to explore potential partnerships and collaborations with international institutions.

For the first time, KGGTF partnered with Korea's Global Knowledge Exchange & Development Center to facilitate guided tours for delegates that helped to explain Korea's economic and industrial development.



Korea Green Innovation Days (KGID) 2019, Sept 26 – 27



The KGGTF's 6th annual flagship event, which was held in Seoul, South Korea, focused on sharing transformational strategies and methodologies at every stage of the pathway to green growth, from design and planning to implementation. It showcased the progress and impact of KGGTF's programs and operations around the globe, highlighting transformational business and financing models, long-term investment methodologies, and the importance of collaborative partnerships for accessing and leveraging knowledge, technology and investment to support ambitious green growth plans.

By The Numbers:



Decision-makers/leaders
from Korea's public &
private sector



WBG Technical
specialists



Officials from 14
Developing
countries



10 Super Sessions
8 Working Sessions

Exhibition Space for 3
Ministry partners
(including 7 Korean
institutions)



Green Talks
Interview Booth

Key Highlights:

1. National Green Growth policy transformations: Director General Jinnam Kim from the Prime Minister's Office for Supporting Green Growth, and Dr Yujin Lee from the Committee on Green Growth presented results from the past decade of Korea's Green Growth policy, major achievements during that time, and the key directions and tasks ahead to plan for, and implement climate change response. WB Practice Manager Christophe Crepin shared details of National Green Growth policy transformations underway in Vietnam and Lao PDR.

2. Innovation driving transformational business models: This session featured two notable case studies in the Transport and Urban sectors as compelling examples of how technology and data-driven solutions and decision making can deliver better, more efficient, climate-friendly policies and services. Dr JaeHak Oh, President of the Korea Transport Institute (KOTI) gave a special presentation on the impacts, policy issues and future directions of shared mobility.

3. World Bank partnerships for leveraging knowledge: This session, led by Hoon Sahib Soh, Special Representative at the World Bank Korea Office, demonstrated the effectiveness of partnerships for accessing and leveraging Korean knowledge, technology and investment to support green growth plans, with examples of KGGTF - WBG Korea Office joint support to provide innovative development solutions in Urban (Land & Geospatial Technology), Environment and Energy.

4. Platform for Green Growth dialogue: KGID provided the opportunity for participants to exchange technical and operational knowledge with a global community of experts. The introduction of a mobile app facilitated connections and discussions before, during and after the event, and bilateral meetings were held to discuss many aspects of green innovation and implementation, as well potential to collaborate long after the event.

SPOTLIGHT ON GP ENGAGEMENT

URBAN

Sameh Naguib Wahba, Global Director, SURDR, meeting Korean counterparts
– Sept 29 – Oct 2

KGGTF facilitated technical dialogues between Sameh Naguib Wahba, Global Director of SURDR and Korean counterparts. Sameh met counterparts in the urban & land development sector (e.g. KAIA, KHRIS, KIND, SH, K-Exim, MOLIT, and LH) in Korea to learn about their business portfolio and operations, explore potential cooperation and discuss co-financing possibilities.

INFRASTRUCTURE

KGTF engagement with Makhtar Diop, Vice President for Infrastructure, GGIVP – Oct 3

KGTF supported Makhtar Diop, VP of the World Bank's Infrastructure Practice Group, on his mission to Korea to learn advanced public transport policy and implementation cases of Korea. Makhtar visited Seoul City's TOPIS (Integrated Transport & Safety Management Center) for a rich dialogue on good practice relating to utilization of public data and avoidance of privacy infringement on individuals. In-depth discussions took place on multi-purpose use of traffic CCTV feeds and data sharing mechanisms with public authorities.



WATER

KGTF Just In Time (JIT) engagement with Latin America & Caribbean (LAC) Water Global Practice – KE & KGID 2019

When: September 22-27, 2019

Where: South Korea (Seoul, Daejeon, Hanam)

Who: 16 World Bank staff from the LAC Water GP

Why: To learn about Korea's green growth best practices and technical expertise in smart technologies and innovative water management.

Lessons & Key take-aways

Through meetings and technical dialogues with MOE, KEI, KECO, K-water, and Seoul Water Institute, the unit learned about:

- Korea's strong commitment and national strategy on green growth that achieved successful water services and sanitation for its population.
- Innovative hydro-informatic services and applications of disruptive technologies for smart water utilities and the continuous effort to improve water utilities and technologies.
- Research and Development (R&D) as a strong part of Korea's successful business model.

KGTF Just In Time (JIT) engagement with Global Water Team

When: October 20-25, 2019

Where: South Korea (Seoul, Daejeon, Paju, Naju, Incheon)

Who: 11 bank staff from Water GP, Head of the delegation: Soma Ghosh Moulik, Practice Manager

Why: To learn about Korea's innovation and successful transformation in the water sector

Lessons & Key take-aways:

- Development, not just limited to the water sector, was achieved in South Korea through 1) Strong cooperation between the government, the people and the private sector, 2) Timely and appropriate use of bottom-up and top-down approaches.
- Two major players in the Korean water sector are K-water and local governments, such as the Seoul Metropolitan Government.
- Innovation in the Korean water sector is relentlessly happening in Korea, a good example of this is eco-delta smart city Busan.
- Public Private Partnerships for wastewater facilities (LG Hitachi Paju Wastewater Reuse Facility) and urban planning that puts environmental facilities at the core (Hanam Union Park) were very impressive.

Next Steps/Action: Participants in this knowledge exchange will produce a knowledge note based on their learnings. They will promote the development of a long-term cooperation between Korea and the WB Water GP.

ENVIRONMENT

KGTF Just In Time (JIT) engagement with the Environment, Natural Resources and Blue Economy team

When: March, 2019

Where: Seoul, South Korea, and Phnom Penh, Cambodia

Who: The WB Environment, Natural Resources and Blue Economy (ENB) team with high-level government officials from Cambodia's Ministry of Economy and Finance, Ministry of Public Works, Ministry of Environment, and two municipal city governments.

Why: A technical deep dive into Korea's experiences in Solid Waste Management (SWM) to better understand how green growth approaches are being applied in the waste sector. A Knowledge Exchange to unpack the policy and regulatory framework around SWM in Korea and learn about business models for public private partnerships, and state of the art technologies being deployed for SWM.

Lessons & Key take-aways:

- The clear message that waste is a resource that can contribute to economic growth.
- The development of different revenue streams as part of the business model used by Sudokwon landfill, which not only help to meet landfill operational and administrative costs, but allow for investments in new projects.
- The roles and responsibilities of the public sector (capital investments, provision of equity, and enforcement of regulations) and the private sector (providing waste collection, landfill operation, incinerator operation and energy generation services) in Korea's management of solid waste.

Next Steps/Action:

The Cambodian delegation were inspired by what they saw in Korea and organized a workshop in June 2019 in Phnom Penh, Cambodia, to share their learnings with government stakeholders. This dissemination event was also supported by the JIT funding from KGGTF. The exchange of knowledge facilitated by the JIT engagement was critical in informing the Cambodian government's next steps to tackle the country's solid waste management challenge:

- A request by the government for a Bank-financed project on solid waste management to support development of the policy and regulatory framework and make some key strategic investments, including a regional landfill.
- A request by the government to Korea's Sudokwon Landfill Corporation (SLC) for support with the development of immediate and medium-term measures for managing the landfill in Phnom Penh, including a plan for increasing the lifetime of the Dakar landfill in Phnom Penh.
- A bold step by the government to cancel a longstanding contract with Phnom Penh's sole waste collector and commit to work on major improvements to the waste collection system



KGTF Just In Time engagement with ENR Fishery Team

When: September 18-27, 2019

Where: South Korea (Seoul, Busan)

Who: 16 World Bank staff and Myanmar delegation

Why: To learn about various aspects of fisheries and coastal management

Lessons & Key take-aways

Through visits to institutions and sites in partnership with Korea Maritime Institute covering topics such as fisheries policy and co-management, monitoring, stock and quality management, aquaculture and fish farming, post-harvest processing, and financing:

- The delegation learned about gradual development of policy and legal frameworks, the advanced research activities of Korean institutions on freshwater and marine fisheries, and the Korean government's ODA activities for developing countries.
- This Knowledge Exchange also provided an opportunity for the World Bank team to deepen its engagement and dialogue with the Department of Fisheries of Myanmar.
- Discussions and knowledge exchanged during this engagement contributed significantly to prioritizing the Bank's planned analytical activities and the exposure to current practices in Korea will further help inform the Government of Myanmar's sectoral agenda.

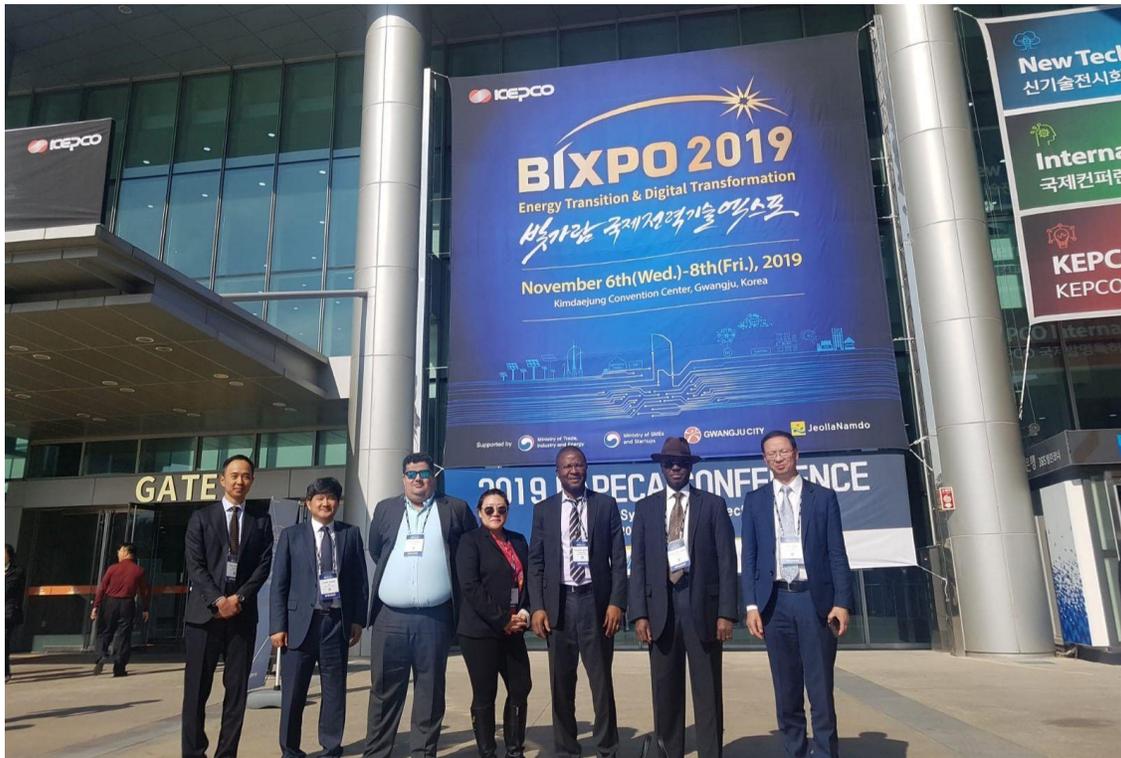
Knowledge Partner Development for ENB GP: Kseniya Lvovsky, ECA ENB Practice Manager - November 11 – 12

The World Bank ENB ECA team in coordination with KGTF, shared its ongoing support for the environment agenda in ECA countries and discussed collaborations to maximize the impacts to client countries under the ongoing Memorandum of Understanding (MOU) between MoE and World Bank ENB GP. In addition, the team met new development partners in the Korean Government, including:

- Ministry of Agriculture, Food and Rural Affairs (MAFRA) and Korea Forest Service (KFS) to discuss potential collaboration with WB ENB on landscape restoration and climate-smart agriculture technology,
- The Export-Import Bank of Korea (K-Exim) to discuss the Economic Development Cooperation Fund (EDCF) and co-financing opportunities on the following areas: climate adaptation & mitigation, waste/wastewater treatment facility, and air quality improvement.

ENERGY

Bitgaram International Expo of Electric Power Technology (BIXPO) - Nov 6 – 8



KEPCO hosted its annual flagship energy event, Bitgaram International Expo of Electric Power Technology (BIXPO), in Gwangju, Korea. WBG energy specialists including Practice Manager Jie Tang were invited to take part in a World Bank Energy Forum, “Disruptive Energy Technology Applications in Developing Countries” and shared insights on disruptive technologies implemented in their projects. KGGTF also presented at the forum and led technical discussions and dialogues between Korean energy institutions and experts from WBG. During the conference, the team met with various Korean energy institutions including KEPCO, KPX, KEXIM, KIAT, and KETEP and discussed further cooperation methods.

TRANSPORT

Bilateral Meeting between Transport Global Practice and Korea’s Ministry of Land, Infrastructure and Transport (MOLIT) - Nov 19

KGGTF facilitated meetings for Transport GP Management to meet with the Vice Minister of Korea’s Ministry of Land, Infrastructure and Transport for to exchange knowledge and discuss partnership opportunities. Discussions covered the potential expansion of cooperation and ways to leverage Korean expertise. This Just In Time

engagement also provided support for Transport GP staff to take part in training as part of the Korea Transport Institute-WBG Leaders in Urban Transport Planning Program (LUTP).

YEAR 7 GRANTS GETTING STARTED

In September 2019, RoK's MOEF (KGGTF Donor) approved proposals for the following new programs to be financed by the Korea Green Growth Trust Fund. For more details on these grant programs and **all 145 KGGTF grant activities** approved to date visit <http://www.wbgkgtf.org/publications> to view or download the **KGGTF Portfolio Book (Yrs 1 – 7)**.

AGRICULTURE

Support to the preparation of the Sustainable Livestock Development Project in Kazakhstan |ECA Region|

Program Goal: To mainstream Green Growth (GG) in the proposed Program for Result (P4R) operation for Sustainable Livestock Development Project in Kazakhstan.

Leveraging technology for Uzbekistan's agricultural modernization |ECA Region|

Program Goal: To pilot smart farming techniques for soil tests and fertility management and promote climate-smart agriculture for horticulture farmers under the proposed Agriculture Modernization and Competitiveness Project (AMCP).

ENERGY

Capacity building and technical Learning workshops on Energy storage to Accelerate energy transition (CLEAN) |Global|

Program Goal: To identify key challenges for the scaling-up of renewable energy and to determine the role of energy storage in facilitating the decarbonization of the power sector.

Regional E-mobility and Battery Storage Programmatic Technical Assistance (TA) for Pacific Island Countries and Territories |EAP Region|

Program Goal: To support the design of a regional Electric Vehicle (EV) and Energy Storage System (ESS) deployment roadmap in Pacific Power Association (PPA).

ENVIRONMENT

Action on Circular Economy for Green Growth in Uzbekistan and Kazakhstan |ECA Region|

Program Goal: To facilitate actions on the circular economy to achieve green growth in Uzbekistan and Kazakhstan.

Pollution Solutions for Lao PDR's Green Growth Policy and Investment Agenda |EAP Region|

Program Goal: To generate and disseminate knowledge that informs the development and implementation of green growth transition policies, and to help with building natural and human capital resulting from better management of pollution.

DIGITAL DEVELOPMENT

Smart-city digital approaches for sustainable urban mobility in Latin-American cities |LAC Region|

Program Goal: To promote resilient, greener, intelligent and sustainable urban mobility models in LAC cities.

Enhancing agricultural green growth in Vietnam by applying disruptive technology to facilitate export of quality, safe and climate resilient agricultural products to Korea |EAP Region|

Program Goal: To support implementation of Vietnam's green growth strategy in agriculture through opening high value markets for Vietnam's climate resilient agricultural products.

LAND

Geospatial Information Management for Green Growth Operationalization |Global|

Program Goal: To operationalize Green Growth (GG) through geospatial information management.

URBAN

Greening Urban Development in Bamako |AFR Region|

Program Goal: To tackle spatial and institutional fragmentation in Bamako by making more productive use of land, improving urban service and supporting institutional development and coordination.

TRANSPORT

Cambodia and Lao PDR: Fostering Green Mobility and Walkable Cities Strategy for Luang Prabang and Siem Reap |EAP Region|

Program Goal: To support municipal authorities of Luang Prabang and Siem Reap in fostering green mobility strategies to preserve both cities' cultural, historical and economic values.

Egypt Green Transport Master Plan and Data Management System to Support Digital Transformation of the Transport Sector and Intelligent Transport System |MNA Region|

Program Goal: To develop a Data Management System to support the Development of the Green Transport Master Plan, the Digital Transformation of the Transport Sector and Intelligent Transport Systems in Egypt.

WATER

Building Drought Resilience in the South of Angola Using Geospatial information and Nature-Based Infrastructure |AFR Region|

Program Goal: To help the Government of Angola and the World Bank develop a program of well targeted interventions to enhance water security and drought resilience.

UPCOMING/PLANNED TECHNICAL ENGAGEMENTS

WB South Asia Region Knowledge Exchange on Solid Waste Management with Korea Environment Corporation - Seoul, Dec 2 – 6

Delegations from India, Nepal and Pakistan, together with experts from the World Bank will participate in a technical Knowledge Exchange focusing on sustainable Solid Waste Management in mountainous regions and co-organized by Korea Environment Corporation. The objectives of this engagement are to learn about Korea's Solid Waste Management best practices and expertise, understand institutional roles and regulatory frameworks in the environment sector, and engage in technical dialogue with key implementing institutions in both the public and private sectors.

About KGGTF

The Korea Green Growth Trust Fund is a partnership between the World Bank Group and the Republic of Korea, established in 2011 to support client countries as they shift to green development path. Both partners share a common goal to reduce poverty and promote shared economic prosperity in an environmentally responsible and socially inclusive way.

The Trust Fund finances on-the-ground programs as well as knowledge exchange activities, and to date has approved 145 programs in the urban, transport, information and communication technology, energy, environment, water, climate and agriculture sectors. Based on strong performance, as well as increasing demand for collaborative development implementation programs, the fund has grown from US\$40 million to US\$88 million WBG programs through 2021.

For more information about KGGTF activities please visit our website www.wbkggkf.org.

World Bank Group Korea Green Growth Trust Fund
1818 H Street, NW Washington, DC 20433 USA

