THE GREEN GROWTH EFFECT
Implementing Ideas That Change The World
The Korea Green Growth Trust Fund

The Korea Green Growth Trust Fund is a partnership between the World Bank Group and the Republic of Korea, established in 2013 to support client countries as they shift to a 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 122 programs in the urban, transport, information and communication technology, energy, environment, water, and climate 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 through 2021.
From the Donor

The Republic of Korea is proud to continue building its partnership with the World Bank Group. Together we continue to find innovative green growth solutions in response to the trends of urbanization, globalization, income inequality and climate change. Working together we can positively change the world.

As countries search for actionable solutions to achieve their goals across energy, environment, water and sanitation, urban, transportation and ICT sectors, leaders are recognizing that the green growth framework provides the right balance of flexibility and structure to achieve the twin goals of environmental and economic sustainability. The prominence of shared economic prosperity, the investment in human capital, and the environmental, economic and health benefits embedded in the green growth framework simultaneously bring economic, social and environmental solutions. While each project and situation varies, Green Growth principles remain the same: implementing solutions that integrate multi-sector needs, technological innovation and social inclusion.

Yoo, Byunghee
Director
Development Finance Division
Ministry of Strategy and Finance, Republic of Korea
The Korea Green Growth Trust Fund works with client countries to find and implement sustainable development solutions that improve lives and contribute to shared economic prosperity. The World Bank Group was established in 1944 with the mission to provide large infrastructure funding to developing countries that otherwise were unable to qualify for loans. Because of its global reach and wide ranging development experience, its ability to discover innovative solutions and provide technical expertise and training has become increasingly valuable to its client countries.

Building on its value as a technical partner and knowledge bank, the Korea Green Growth Trust Fund was established in 2013, in partnership with the Republic of Korea, to support client countries to find and implement innovative strategies for green growth.

The Republic of Korea has become a global leader in green growth. It has developed innovative and effective policies and governance structures that support a sector-integrated approach to sustainable economic development that prioritizes protection of the environment.

Korea’s remarkable transition over several decades from the recipient of global aid to a strong, thriving economy and World Bank donor is an inspiring story. As a nation, its first-hand experience developing solutions across the urban, transport, information and communication technology, energy, environment and water sectors is highly relevant for many developing countries facing similar challenges.

An important symbol of this partnership, the Korea Green Growth Trust Fund now looks ahead to continue finding innovative green growth solutions in response to the trends of urbanization, globalization, income inequality and climate change, in order to positively change the world.
From the World Bank

It has been an honor and a pleasure to partner with the Government of Korea since the Korea Green Growth Trust Fund (KGGTF) was established in 2013. Korea’s remarkable achievements combining economic development with environmental sustainability and social wellbeing align directly with the goals of the World Bank.

The programs that the KGGTF supports are transformative. For example, the methodology to assist with decision making under deep uncertainty has been integrated as a foundational World Bank framework to help promote more robust and resilient infrastructure investments worldwide. The KGGTF is highly valued for its support of new methodologies, its investment in innovative approaches, and its facilitation of learning from around the world. To date the KGGTF has influenced around $13 billion in project lending to World Bank client countries.

The Republic of Korea’s visionary leadership in green growth policies, integration of ground-breaking technologies, and long-term sustainable thinking is an inspiring story for governments around the world. We look forward to building on the Trust Fund’s accomplishments to date, and continued collaboration to share sustainable solutions with countries tackling development challenges.

Marianne Fay
Chief Economist of the Sustainable Development, Vice Presidency of the World Bank Group
Korea Green Innovation Days 2018
The Green Growth Effect

Korea Green Innovation Days 2018 is the KGGTF’s fifth annual flagship event. To celebrate and share the success of the KGGTF since it began operationalizing green growth in 2013, the event will focus on the results and impact achieved—The Green Growth Effect.

A diverse line-up of green growth practitioners and visionaries, together with decision-makers from public and private organizations in Korea, senior officials from client countries, and technical specialists from the World Bank will lead a highly interactive and practical two-day knowledge sharing activity.

Countries and companies around the world are searching for ways to achieve sustainable development. While each set of challenges and circumstances varies, green growth principles remain the same: implementing solutions that integrate multi-sector needs, technological innovation and social inclusion. This provides a comprehensive approach, with a flexible and sophisticated framework on how to achieve sustainable development.

Together we will demonstrate the collective action taken and progress made throughout the world to transform green growth challenges into opportunities to stimulate economic activity in a sustainable way, and improve quality of life for citizens, children and future generations.
The Green Growth Effect
Around the World

IN LAOS
Supporting the Government of Laos with technical assistance, analysis and advisory services to develop a Green Resilient Growth Platform

GREEN GROWTH EFFECT
HELP TO BOOST PRODUCTION
REDUCE GHG EMISSIONS FROM FARMING
BUILD CLIMATE CHANGE RESILIENCE

IN BHUTAN
Improving urban transport in Bhutan’s capital city including investment in Electric Vehicle implementation and green public transportation

GREEN GROWTH EFFECT
BENEFITS CITIZENS
REDUCES GHG EMISSIONS
PROMOTES TOURISM
ENHANCES NATIONAL COMPETITIVENESS

IN COLOMBIA
Working with the government to implement a comprehensive national green growth strategy

GREEN GROWTH EFFECT
INCLUSIVE ECONOMIC GROWTH
PROTECTION OF NATURAL RESOURCES
LONG TERM STRATEGY ENCOURAGING NEW BUSINESS INVESTMENTS

IN CENTRAL AMERICA
Provide technical support for renewable energy integration in Central America

GREEN GROWTH EFFECT
FACILITATE GROWTH BY IMPROVING ENERGY RELIABILITY AND EFFICIENCY
REDUCE DEPENDENCE ON VOLATILE OIL PRICES
HELP TO ACHIEVE GHG REDUCTION TARGETS
Agenda

Wednesday, May 16
KGID Pre-Reception
MOLIT Land Development Museum
5:30 pm
Thursday, May 17
Le Méridien, Seoul

8:00–9:00 am Registration

9:00–9:25 am Welcome and Opening Remarks
Tae Sik Yoon, Director General of Development Finance Division, Ministry of Strategy and Finance (MOSF), Republic of Korea (RoK)
Marianne Fay, Chief Economist, Sustainable Development Unit, World Bank Group (WBG)

Eun Joo Yi, Korea Green Growth Trust Fund (KGGTF), WBG

Keynote Address
Jae Jeong Kim, Chief Deputy Minister for Planning and Coordination, Ministry of Land, Infrastructure and Transport (MOLIT), RoK

9:40–11:00 am Success Stories: What’s Your Green Growth Effect? Ideas and Solutions That Are Changing the World
Green growth is informing World Bank and country projects in a variety of sectors around the globe. Learn how the green growth framework is taking challenging situations and transforming them into opportunities to stimulate economic growth, improve quality of life and build shared economic prosperity.

MODERATOR
Eun Joo Yi, KGGTF, WBG

LAOS
National Green Growth Program

COLOMBIA
National Green Growth Commitment

UZBEKISTAN
Cleaner Production: Industrial Energy Efficiency

CAMEROON
Pedestrian Mobility for Urban Growth

Panel Discussion
Q & A

11:00–11:15 am Coffee Break
Networking and Pre-Scheduled Meetings

11:15 am–12:30 pm The Multiplier Effect: Partnerships and Ideas from Around the World
• Partnership between the Ministry of Environment and KEITI, RoK and the World Bank’s Environment Unit, MOUs that foster sharing and impact.
• Collaboration between KLID, the World Bank’s Urban Unit and Cairo, Egypt to achieve civil green growth action incorporating E-Government.
• Partnership between the Ministry of Oceans and Fisheries, RoK and the World Bank to achieve and integrate innovation for sustainable fisheries.

MODERATOR
Eun Joo Yi, KGGTF, WBG
Panel Discussion

12:40–1:40 pm Lunch

1:40–2:30 pm Green Growth Effect Exhibits
Networking and Multi-Media Experience

2:30–4:45 pm Working Sessions
F Floor, 4th Level
Monet Conference Rooms
Four Working Sessions will be held each afternoon. These will be highly interactive technical discussion forums based on sectors or technical areas, where green growth experts and practitioners can discuss critical issues in-depth, find solutions to specific problems, and seek opportunities for collaboration. These sessions will run simultaneously, please choose one to attend each day.

5:00–5:30 pm Take Out: Green Growth Experiences To-Go
Virtual Reality and Movie Time in the Main Ball Room
Experience innovative solutions to complex problems. Get a sneak-peek at the future of immersive learning and how KGGTF is working to make site visits available to city leaders everywhere.

5:40 pm It’s a Wrap
Reflections on Day 1 and Announcements for Day 2

6:30–8:30 pm KGID 2018 Day 1 Dinner Reception
Hanbok Experience

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Working Sessions
Thursday, May 17 2:30–4:45 pm
F Floor, Le Méridien, Seoul

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**Water**

**Transport and Logistics**

**Energy**

**Fishery**

**Smart Water Management for a Sustainable Future: Managing the Highs (Floods) and the Lows (Droughts)**

Clean water and air are indispensable. Many countries now or in the near future will experience difficulty securing these resources. New inexpensive technologies allow for robust environmental monitoring. The deployment of accurate and transparent monitoring systems alongside campaigns that educate and engage the public can supercharge the process of reducing GHG emissions and improving air and water quality for all.

**Discussion will include:**
- Capacity building.
- Establishing a supportive regulatory environment.
- Successfully deploying new technologies.
- How to strategically engage the public.

**Moderator**

Pilar Maisterra, Practice Manager, WBG

**Panel Discussion**

**Water**

**Water**

**Transport and Logistics**

**Energy**

**Fishery**

**Transportation and Logistics: Hidden Resources to Achieving Green Growth**

Key to unlocking a country’s economic potential without damaging the environment is a robust transport and logistics network. The benefits of a clean and efficient transport system include economic growth and stability by reducing the time and cost of freight transportation, the creation of new jobs, lower GHG emissions, and a reduction in environmental impact.

Reevaluating a country’s geographical resources and constraints can often result in non-traditional solutions. This session will examine how waterways, railways and the integration of new ITS solutions provide new options for the transport and logistics sector.

**Moderator**

Juan Gaviria, Practice Manager, WBG

**Panel Discussion**

**Energy Technology and Innovation: Guess What? It’s Easier Than You Think**

The world has experienced energy breakthroughs. Renewables, storage batteries and energy integration costs have decreased and are now economical options.

Recent projects such as shared power systems between neighboring countries, smart grids, and solar panels on homes demonstrate how countries can decrease energy costs and transition towards energy independence and sustainability. New tools allow countries to create highly tailored energy solutions.

This session will explore this energy transformation, and consider the opportunities and challenges ahead.

**Moderator**

Franklin Kofi Gbedey, Sr. Energy Specialist, WBG

**Panel Discussion**

**Fishing for Solutions? Tech and Policy Solutions for Effective Resource Management**

Global economies now recognize effective resource management the need to integrate a long-term sustainable economic perspective. Sustainable fisheries and marine products contribute significantly to a nation’s economy. Learn how integrating technology, innovation and smart policies can result in long-term sustainable development.

**Moderator**

Cristina Navarrete Moreno, Private Sector Specialist, WBG

**Panel Discussion**
Virtual Reality Experience

World Bank staff and leadership from emerging countries are finding Korea’s approach to green economic development to be highly relevant. Over the past five years the Korea Green Growth Trust Fund has facilitated Technical Knowledge Exchange Programs for over 800 government officials and technical practitioners from around the world. Due to overwhelming feedback on the significant value of this on-site learning experience, and the demand from client countries to learn Green Growth in Action, the KGGTF is looking for new learning tools and methods to share Korea’s green growth experience more widely. Using Virtual Reality technology, we hope to offer more people around the world the opportunity to learn from Korea’s pathway to green economic development.

Virtual Reality (VR) can offer people in many different locations the opportunity to experience visiting a specific site without physically traveling to it. Using this technology, government leaders, urban planners, policy decision-makers and technicians can have a visual learning experience that simulates being there in person. In this way we hope to scale the value of VR learning experience and help inform greener planning and investment decisions around the world.
Friday, May 18
Le Méridien, Seoul

8:30–9:00 am
Networking and Pre-scheduled Meetings

9:00–9:25 am
OPENING SESSION
The 4th Industrial Revolution: Shared Economic Growth

Korea has developed innovative policies and strategic investments to position the country as a leader in the Fourth Industrial Revolution. The Presidential Fourth Industrial Revolution Committee is working to promote growth in key sectors such as: electric and self-driving vehicles, smart cities and factories, and AI-related industries based on intelligent infrastructure and green energy.

Learn how strategic policies and targeted investments encourage economic growth that is innovative and inclusive.

MODERATOR
Jaehyang So, Senior Adviser, WBG

SPEAKERS
Chang Ryung-gyu, Committee Chair, The Presidential Fourth Industrial Revolution Committee

9:30–10:00 am
Jobs: SMEs and Start Ups in a Green Growth Economy

Visionary leadership and long-term planning has been fundamental to Korea’s rapid economic transformation. Clearly articulated government plans, accompanied by targeted investments provide the private sector with a sense of certainty that results in business investments and job creation. Learn how key policies support a thriving green economy and the opportunity to build a vibrant SMEs and start-up sector.

MODERATOR
Jaehyang So, Senior Adviser, WBG

SPEAKERS
Ministry of Small Medium Enterprises & Startups (MISS)
Kang Hyun Lee, Comanto – Monitoring Platform Start Up

Environment Start Up

10:00–11:00 am
Looking Ahead: KGGTF Projects in the Works

The World Bank is often associated with large scale, capital intensive infrastructure projects and lengthy footnoted reports. This session will show World Bank projects in a different light by previewing newly awarded KGGTF grants from a number of regions that aim to fast to out new ideas and technologies combining multiple sectors that are designed for fast deployment. The desired effect? Environmentally sustainable and cost effective solutions that can be implemented quickly and achieve a positive, scalable effect. The aim for these pilot solutions, once proven successful, is deployment across other World Bank and client country projects.

MODERATOR
Eun Joo Yi, KGGTF, WBG

PART 1
Land and Urban Transport
HONDURAS AND PAKISTAN
Land
VIETNAM
Urban Transportation

PART 2
Energy and Water
WAPP
Energy
UGANDA
Water
Q & A

11:00–11:15 am
Coffee Break
Networking and Pre-Scheduled Meetings

11:15 am–12:25 pm
Decision Making Under Deep Uncertainty

One challenge facing all projects is how to make decisions in a world constantly in flux. When long-term investment choices are being made how can shifting variables such as climate change, politics, and social upheaval be factored in? Infrastructure investments last for decades, therefore a badly planned investment can have costly consequences over the long term.

With funding from the KGGTF, a World Bank team developed a tool for decision-making under deep uncertainty (DMDU) that simulates the consequences of unexpected events. It considers variables such as investment costs, potential damage to asset values, sea level rising, current discount rate, the impact of population growth, among other fluctuating variables, and highlights benefits and tradeoffs.

This session will consist of an interactive exercise in which participants will be involved in an investment decision scenario that brings the critical decision-making process to life. This will demonstrate how green growth thinking has been used to develop a methodology that is becoming a foundational World Bank tool to help standardize and manifest more robust and resilient infrastructure investments worldwide.

PRESENTATION OF DMDU
Xavier Espinet Alegre, Transport Specialist, WBG

PANEL SESSION
MODERATOR
Marianne Fay, Chief Economist, Sustainable Development, WBG

SPEAKERS
Lahiru Prasanga Handunneththi, Hydraulic Engineer, Sri Lanka Land Reclamation and Development Corporation (SLLRDC), Colombo, Sri Lanka

PERU
Ivan Rodriguez, Water and Sanitation Specialist, Water Utility (SIEDAPAL), Lima, Peru

MOZAMBIQUE
Calado Ouana, Head of the Department of Road Network Management, Road National Administration (ANE), Mozambique

12:25–12:40 pm
WBG Open Learning Campus: Sharing Knowledge and Learning for Sustainable Development Goals

Green Growth Knowledge Session
Margot Brier, Global Knowledge Director, WBG

12:50–1:05 pm
Lunch
Networking and Pre-Scheduled Meetings

1:50–2:30 pm
Future Growth Effectors

The 4th Industrial Revolution: Shared Economic Growth

OUTSTANDING GREEN GROWTH AWARD CEREMONY

2:30–4:45 pm
Working Sessions
FLOOR 4
FLOOR 3
FLOOR 2
FLOOR 1

4:45–5:30 pm
Closing Remarks:
Next Steps for Continual Success

5:00–5:30 pm
Funding the Green Growth Effect

6:15–8:30 pm
Award Gala: Recognition for Outstanding Green Growth Effectors

Cocktail Reception
Urban Design: Data Analytics and Green Growth Policies for Smart Cities
Cities are the growth engines of economic development. This is evident in emerging countries where unplanned rapid urbanization results in numerous urban problems caused when services including housing, education, water, sanitation, transportation and solid waste management are underdeveloped and under acute strain. Recent case studies demonstrate how green growth policies and analytics can support urban reconstruction and city planning while further delivering job creation and shared economic growth.
MODERATOR
Fernando Sakana Rodriguez, Consultant, WBG
Panel Discussion

Transport and Urban Mobility: The Backbone of a Successful Economy
Successful cities rely on efficient transportation. Establishing the correct policies and incorporating new technologies can encourage citizens to utilize public transit and boost economic growth and future investment. Examine the institutional arrangements, technology and standardization processes necessary to create a seamless, well-mobilized city.
DISCUSSION WILL INCLUDE:
• Utilizing technologies in the design and implementation of balanced urban development.
• City mobility supporting successful urban environments.
MODERATOR
Arturo Ardila Gomez, Lead Transport Economist, WBG
Panel Discussion

SMEs Bright New Future: Clean Tech and New Processes
Cleaner production methods provide new opportunities for SMEs. Hear how highly targeted industrial parks and the corresponding policies encourage economic growth and the creation of new clean jobs.
DISCUSSION WILL INCLUDE:
• Cleaner technology for manufacturing.
• Industrial symbioses across sectors.
• Eco industrial parks that support SMEs.
• Policies focused on SMEs to develop innovative solutions for environmental issues.
• Supporting SMEs to undertake R&D.
MODERATOR
Farid Tadros, Sr. Private Sector Development Specialist, WBG
Panel Discussion

Knowledge, Learning and Capacity Building
New initiatives support capacity building and create opportunities for institutions and peer networks to learn from each other. Face to face learning, study tours, e-learning, and bite sized education courses or ‘micro-lessons’ are just a few options now available. Examine how virtual platforms and new technology networks accelerate the reach and impact of capacity building.
DISCUSSION WILL INCLUDE:
• Capacity building for respective constituents.
• Identifying the most appropriate learning tool and methods to connect with the target audience.
• Financing models.
• Opportunities and pitfalls of customization.
• How technology and social media can strengthen learning.
MODERATOR
Sheila Jagannathan, Lead Education Specialist, WBG
Panel Discussion

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Working Sessions
Friday, May 18 2:30–4:45 pm
F Floor, Le Méridien, Seoul
Participating Countries

Countries around the world are implementing green growth principles. Decision-makers, government officials and technical specialists from over 24 countries will come together to exchange ideas and best-practices at KGID 2018. If you are interested in meeting with representatives or World Bank staff from specific countries engaged in green growth activities please speak to a member of the KGGTF team.

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KGGTF is committed to sharing technical knowledge and first-hand experience of implementing integrated green growth solutions that contribute to sustainable development and shared economic prosperity.

To learn more about us visit www.wbgkggtf.org and for enquiries about grant applications please contact the Country Management Unit at your local World Bank office www.worldbank.org.