15th Korea Green Innovation Days
May 6 – 8, 2026
Sejong, South Korea

Day 1. Breakout Session
Green Energy Transformation: Driving Decarbonization and Sustainable Solutions

Speakers Bios

(Moderator) Inchul Hwang, Senior Energy Specialist, World Bank Group

Inchul Hwang is a Senior Energy Specialist based in Songdo, World Bank Korea office. He is working various energy efficiency (EE) and renewable energy (RE) projects in Mongolia, and Pacific Island Countries (PICs). He is leading Korea Green Growth Trust Fund (KGGTF) grant on PIC e-mobility and energy efficiency. He serves as an institutional knowledge facilitator of Korean good practices related to EE, RE, and energy transition for WBG and clients.

Prior to joining the Bank, Inchul held several roles of operating energy efficiency and renewable energy policies at a national agency (Korea Energy Agency). He holds a master in Energy and Earth Resources from University of Texas at Austin and a bachelor in Business Administration from Korea University.

Photo

Yae Jun Kim, Energy Specialist, World Bank Group

Yun Wu, Senior Energy Specialist, World Bank Group

Yun Wu is a Senior Energy Specialist with the World Bank Group, based in Singapore. Since joining the World Bank in 2012, she has led country and regional energy programs across East Asia and Pacific, Europe and Central Asia, and East Africa, working on energy sector reform, energy transition, power and heating sector development, energy efficiency, renewable energy, and air quality.
Yun has extensive experience shaping sector strategies and delivering complex policy and investment operations, including large multi-phase programs focused on sector financial viability, tariff reform, utility modernization, renewable scale-up, and private sector participation. Her technical work spans power systems, clean heating, energy efficiency, large hydropower, solar, geothermal, pumped storage, and regional power integration.
Prior to joining the World Bank, Yun worked at the U.S. Department of Energy's Oak Ridge National Laboratory, the International Institute for Applied Systems Analysis (IIASA) in Austria, and Resources for the Future in Washington, DC. She holds a PhD in Resource Economics and Policy and a Master's degree in Statistics from North Carolina State University, and a Bachelor's degree in Engineering from Tianjin University.

Youngsung Park, General Manager, KEPCO

Youngsung Park joined KEPCO in December 2003 and currently serves as a General Manager in the Global Business Department. He has over 20 years of experience in overseas business development, operations, and strategic planning in the power industry. Throughout his career, he has been involved in major international projects such as the Dominican Republic Distribution Network Construction Project, the Honduras Power Loss Reduction Project, the Jordan Energy Initiative, the Abu Dhabi New Business BEMS Project, and the Colombian Power Sector Feasibility Study.
Through his extensive experience in distribution, transmission, power loss reduction, AMI, and solution development, he has contributed significantly to KEPCO's growth and global market expansion.
He is a licensed Professional Electrical Engineer and a regular member of the Korea Institute of Electrical Engineers (KIEE).

Hanki Kim, Department Head, KIER

Dr. Hanki Kim is a leading researcher and the Chief of the Distributed Energy Team at the Korea Institute of Energy Research (KIER) Jeju Global Research Center (JGRC). Holding a Ph.D. from Hanyang University, he has dedicated over 16 years to advancing the water-energy nexus. His expertise centers on pioneering distributed energy technologies, specifically the "Blue Battery"—a seawater-based acid-base flow battery—and Power-to-Heat/Hydrogen (P2HH) systems.
Dr. Kim's research philosophy emphasizes scalability, moving beyond lab-scale validation to system-level optimal design and comprehensive field demonstrations. Following his key role in constructing Korea's first pilot plant for reverse electrodialysis

(RED) salinity gradient power in 2018, he currently oversees the continuous operation and optimization of a P2HH demonstration plant at the Sihwa National Industrial Complex.

Furthermore, Dr. Kim actively drives global technology transfer and international cooperation, managing the UN CTCN Technical Assistance (TA) project in Papua New Guinea to implement sustainable, real-world energy solutions.
