

**KGID
2025**
**Green Growth:
The Path to
Sustainable Jobs**
**Korea Green Innovation Days
October 20–22, 2025
Washington, D.C., USA**

Day 2. Breakout Session

Session 2-6B. Title: Nuclear & Carbon-Free Energy Innovations

Speaker Bios



Demetrios Papathanasiou, Global Director, EEX GD, The World Bank

Demetrios leads over 100 professionals at the World Bank's Energy and Extractives Global Department, overseeing strategic direction, knowledge initiatives, corporate reporting, trust funds, and partnerships. With more than 20 years of experience across Africa, Latin America, Europe, Asia, and the Pacific, he has shaped energy policies, managed diverse power generation projects, and driven major utility reforms and public-private partnerships. As Manager for South Asia's Energy Global Department (2016–2020), he managed a \$10 billion portfolio, advancing renewable energy, regional interconnections, and network modernization.

Selena Jihyun Lee, Energy Specialist, The World Bank

Selena is an Energy Specialist at the World Bank's Global Energy Knowledge and Expertise Unit (IEEGK). She has extensive experience and knowledge in energy transition, with expertise in energy resilience and efficiency. Prior to joining the World Bank, Selena worked as a policy analyst at the International Energy Agency (IEA), with a focus on energy security and efficiency. She holds a master's degree in Environment and Development from the London School of Economics and Political Science (LSE).

Pierre Audinet, Lead Energy Specialist, EEX GD, The World Bank

Dr. Pierre Audinet serves as a Lead Energy Specialist within the Energy and Extractives Global Knowledge Department at the World Bank Group in Washington, DC. He leads the Nuclear Energy Knowledge Exchange Workshop Series and has expertise in areas such as concessional finance, energy and climate change, geothermal energy, low carbon development, the oil and gas industry, the power sector, and renewable energy. He holds a Ph.D. from the École des Hautes Études en Sciences Sociales (France) and has been a Ph.D. Fellow at universities in Brazil and India, along with degrees from institutions in Paris.

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Mr. Seung-Yeol Lim, Vice President of Overseas Business Development Department, Korea Hydro & Nuclear Power Co., Ltd. (KHNP)

Since 2020, he has led the Department in fostering partnerships with nuclear-embarking countries and advancing the worldwide adoption of nuclear power.

Since joining KHNP in 1997, he has amassed extensive experience in procurement and financing, including a critical position in managing commercial aspects for the Barakah Nuclear Power Plant project.

He earned a B.S. degree in Psychology (1997) from Yonsei University and an MBA (2009) from the University of North Carolina.



Dr. Yongsoo Hwang, Distinguished Professor, KEPCO International Nuclear Graduate School (KINGS)

Dr Yongsoo HWANG is currently serving as a Professor at KEPCO International Nuclear Graduate School (KINGS) at Ulsan in South Korea. He is currently studying the global nuclear non-proliferation, security, nuclear export, SMR implementation and the nuclear fuel cycle. Prior to join KINGS, he served as a President of Korean Nuclear Material Management (KNMM) Society and the Korean Chapter of International Nuclear Material Management (INMM-KC.) Before joining KINGS, he served as a President of Korea Institute of Nuclear Nonproliferation And Control (KINAC) and a Senior Vice President of Korea Atomic Energy Research Institute (KAERI.) He had served for many positions in KAERI and KINAC for the last three decades.

He worked as a Member of the Technical Advisory Group for NSSC, Korean Nuclear Safety and Security Commission. There he oversighted the licensing review for the Wolsong LILW repository. He served as a Member for the IAEA Multi-Lateral Nuclear Agreement (MNA) Expert Group to solve the Iranian Nuclear Dilemma between 2004 and 2005. He also served as a member for the 1st Korean Public and Stakeholder Engagement Task Force between 2006 and 2007 to identify the solutions for the Used Nuclear Fuel Management. He was located at US CSIS as a Visiting Fellow during the 123 Negotiation between the ROK and the US. He founded INC International nuclear Non-proliferation and Cooperation center at KINGS in 2024.

He received his BS from the Department of Nuclear Engineering in Seoul National University and MS and Ph D from the Department of Nuclear Engineering in University of California, Berkeley. In 2006, he was selected as the “Best Nuclear Scholar of the Year” by Korean Nuclear Society. He has worked on the Nuclear Fuel Cycle and Nonproliferation & Security for 40 years.

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2025****Green Growth:
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With more than 20 years of comprehensive and professional experience at KEPCO (Korea Electric Power Corporation), SeungHee Yang possesses deep and extensive expertise and know-how in the power and energy sector.

Recently, SeungHee Yang was invited by the Korean Government to join a newly established organization called the CF Alliance (Carbon Free Alliance) as a specially dispatched officer. The mission of the CF Alliance is to promote the CFE (Carbon Free Energy) Initiative worldwide, aiming to advance global decarbonization.

In his roles at KEPCO and CF Alliance, SeungHee Yang is passionately dedicated to achieving clean sustainable growth.