

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

Day 1. Breakout Session

Nuclear in the Energy Transition: What It Takes to Deliver Reliable Power

Speakers Bios



(Moderator) Lauren Claire Culver, Senior Energy Specialist, World Bank

Lauren Culver is a Senior Energy Specialist at the World Bank, where she currently leads the re-engagement of the World Bank Group in nuclear energy. Ms. Culver has over 15 years of experience in energy systems. While at the World Bank, Ms. Culver has worked to help countries alleviate energy poverty while limiting climate-changing emissions. She has contributed to global knowledge with a focus on energy system modeling to inform energy transition financing. She has worked in West and Southern Africa, the Caribbean, Europe, and Central Asia on investments related to energy access, regional energy markets, and renewable energy integration.

Prior to joining the Bank, she served as an advisor within the U.S. State Department's Bureau of Energy Resources advising policymakers on energy markets and technologies. Previously, Ms. Culver was a Presidential Management Fellow at the U.S. Department of Energy, where she counseled the Undersecretary for Energy on energy technology innovation, commercialization, and manufacturing. Lauren earned a PhD in Management and Science and Engineering from Stanford University, an SM in Technology and Policy and an SM in Civil and Environmental Engineering from the Massachusetts Institute of Technology, and a BS in Materials Science and Engineering from the University of Florida.



Se-Bin Cheon, Overseas Business Development Department, Korea Hydro & Nuclear Power (KHNP)

Mr. Sebin Cheon is a General Manager at Korea Hydro & Nuclear Power Co., Ltd. (KHNP), currently leading the Overseas Nuclear Power Project Development Section I. He has over 20 years of experience in the nuclear power industry, with expertise spanning plant operations, maintenance, and international project development.

Since joining KHNP in 2002, he spent more than 13 years at the Hanbit and Kori Nuclear Power Sites, contributing to safe plant operations and gaining extensive experience in outage management.

He later transitioned to international nuclear business, working for approximately nine years at KHNP headquarters and its Europe Office in Paris. In December 2025, he

played a key role in securing the main contract for the Cernavoda Unit 1 Refurbishment Project in Romania and successfully served as the overall Project Director, demonstrating his leadership in complex global projects.

Mr. Cheon currently leads KHNP's global nuclear project development portfolio, taking a central leadership role in advancing overseas nuclear projects. He continues to drive KHNP's international expansion by spearheading strategic project development and strengthening partnerships in the global nuclear energy market.

Mr. Cheon holds a Bachelor's degree in Metallurgical Engineering from Pusan National University, earned in 2001



Yongsu Hwang, Distinguished Professor, KEPCO International Nuclear Graduate School (KEPCO 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 Wolsng 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.



Seunghan Lee, Senior Operations Officer, East Asia Pacific Vice Presidency, World Bank Group

Seunghan Lee is a Senior Operations Officer in the World Bank's East Asia and Pacific Vice Presidency, based in Washington, DC. He holds a PhD and MA from the University of Washington and a BA from Seoul National University. His expertise covers economic growth, industry policy, trade, jobs strategies, and macroeconomic vulnerability, with a focus on real sector dynamics across the East Asia and Pacific region.



Ms. Joana Arnautska, Head of Financial Modeling and Analysis, Kozloduy New Build, Bulgaria

Joana Arnautska is the Head of Financial Modeling and Analysis at NPP Kozloduy New Builds PLC in Bulgaria, a position she has held since June 2024. She is an experienced finance professional with a background in energy and consulting, previously holding roles at Baringa, ICGB AD, Bulgarian Energy Holding, and PwC



Mr. Łukasz Sawicki, Ministry of Energy Counsel, Ministry of Energy, Poland

Lukasz is a nuclear energy expert with 20 years of experience, including 16 years in government administration specializing in nuclear economics. A leading authority on business models for nuclear power plants, they are a co-author of the SaHo Model. With a portfolio of approximately 20 publications, their work focuses on the financing of nuclear projects and the industry's broader impact on the national economy

Mr. Tayyib Talha Dinç, Ministry Expert, Ministry of Energy and Natural Resources, Türkiye.



T. Talha Dinç is an energy professional at the Republic of Türkiye's Ministry of Energy and Natural Resources, where he focuses on the strategic advancement of the national nuclear energy program. He plays a key role in coordinating international cooperation and high-level stakeholder engagement to support the successful implementation and economic sustainability of nuclear power initiatives.



Mrs Nomawethu Mtwebana, is the acting Chief Executive Officer (CEO) of the Pebble Bed Modular Reactor (PBMR) and a Senior Manager: Small Modular Reactors (SMRs) at Eskom Koeberg Nuclear Power Station. She is a highly experienced nuclear professional and senior leader with over 25 years of experience spanning plant engineering, nuclear safety and performance improvement, and nuclear oversight. She holds a Bachelor of Technology in Chemical Engineering, a Postgraduate Diploma in Science, and a Bachelor of Technology in Project Management, underpinning her strong technical expertise with solid leadership and governance capability. In her current role as Acting Chief Executive Officer, she is responsible for overseeing executive leadership of the "Care and Maintenance" of PBMR operations and resources.