SHIN&KIM



Kwangje Woo

Advisor

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Mr. Kwangje Woo is an Advisor at Shin & Kim, where he provides advisory services in the areas of economic security, nuclear power and energy, climate and environmental matters, and national core technology protection and technology security.

Mr. Woo has extensive experience working at government agencies responsible for national security and intelligence, where he handled matters involving Korea's key industries, including nuclear power and energy, shipbuilding and defense, as well as finance and capital markets. During his service at the Office of National Security, he worked on a range of issues involving international relations, foreign affairs and national security. Through these roles, he has accumulated broad experience spanning national security and industrial and economic policy, and has developed an in-depth understanding of government agencies responsible for economic and industrial affairs and key industries, together with an extensive network across relevant government and industry sectors.

In particular, Mr. Woo has handled a broad range of economic security and technology security matters involving small modular reactors (SMRs), nuclear power and nuclear fuel, the defense industry, batteries, the protection of national core technologies, and global supply chains. He has also handled matters related to nuclear power exports, Korea-U.S. nuclear cooperation and other areas of international cooperation. In addition, his advisory and evaluation activities in the areas of climate change response, greenhouse gas emissions reduction, and national science and technology policy have enabled him to develop extensive expertise in matters at the intersection of climate and energy policy and industrial policy.

Prior to entering public service, Mr. Woo worked at Doosan Enerbility (formerly Korea Heavy Industries & Construction Co., Ltd.), where he was involved in research and strategic planning relating to climate change, energy and environmental issues. Drawing on his experience spanning the private sector, government agencies and the Office of National Security, Mr. Woo provides strategic advice to companies navigating complex challenges involving economic security, technology protection, government policy and regulation, and external risks arising from intensifying global technology competition and the energy transition.

Professional Career

Shin & Kim LLC (Present)

Government Agency Responsible for National Security and Intelligence

Administrative Officer, Office of National Security, Office of the President

Doosan Enerbility (formerly Korea Heavy Industries & Construction Co., Ltd.)

National Science and Technology Policy Expert, Ministry of Science and Technology

Member, Evaluation Committee, Korea Institute of S&T Evaluation and Planning (KISTEP)

Industry Expert Advisor, Public-Private Climate Change Task Force, Office of the Prime Minister

Member, Review Committee for Technology Development Projects under the Greenhouse Gas Reduction Measures Research Program, Korea Energy Management Corporation

Research Institute for Environmental Technology and Policy, Korea University

Key Experience

- Policy and strategic intelligence matters relating to nuclear power and energy, shipbuilding and defense, and finance and capital markets
- Economic security and technology security matters relating to SMRs, nuclear power and nuclear fuel, defense, batteries, national core technologies, and global supply chains
- Matters relating to nuclear power exports and Korea-U.S. nuclear cooperation
- Policy and advisory work relating to climate change response and greenhouse gas emissions reduction
- Expert advisory and evaluation work relating to national science and technology policy

Education

Korea University (Ph.D. in Civil & Environmental Engineering)

Korea University (M.S. in Energy and Environmental Systems Engineering)

Qualifications

Ultralight Vehicle Pilot Certificate – Unmanned Multicopter (Class 1)

Unmanned Multicopter Flight Instructor Certificate

Languages

Korean, English

Professional Activities

- Lectured on “U.S.–China–Russia Geopolitical Competition over Nuclear Energy: An Energy Security Perspective” at the Graduate School of International Studies, Seoul National University (October 22, 2026)

Publications

- “Attrition and CO Adsorption Characteristics of Dry Sorbent in Fluidized Bed,” Journal of Korean Society of Environmental Engineers (2003)
- “Analysis of Domestic and International Research Trends on Climate Change and Its Economic Impact on the Power Generation Sector,” Clean Technology

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