

TEAM NUCLEAR KORUS

Yongsoo HWANG, Ph D
KINGS
2026 APR 30



INC

International Nuclear Nonproliferation
Cooperation Center

KEPCO International Nuclear Graduate School



From Nowhere to Global Leader

- Nuclear is THE Tech Driven Human Intelligence Energy Resources -

Meeting of Two Visionaries at the Blue House (July. 1956)

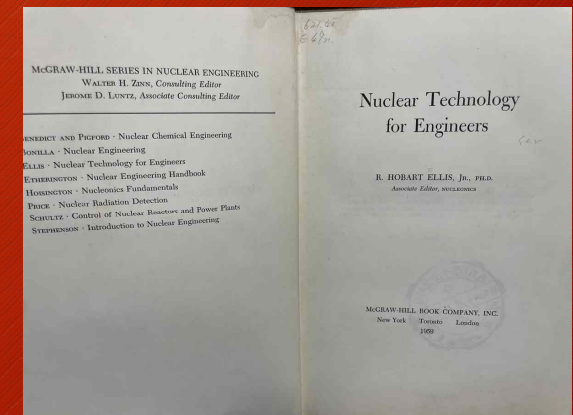
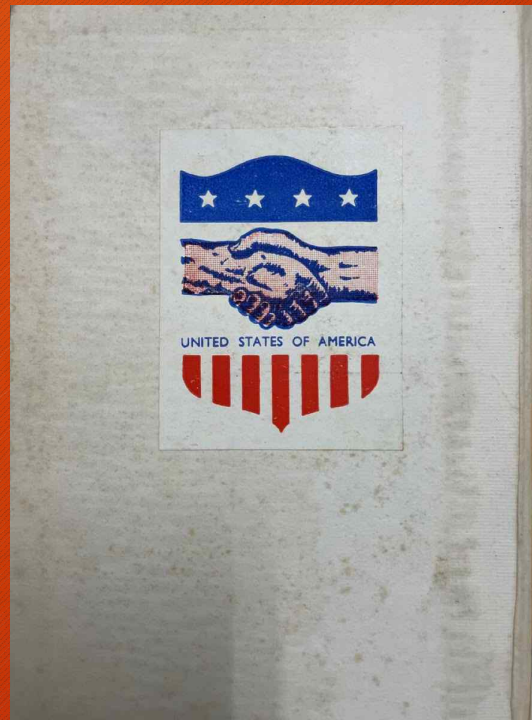


Walker Lee Cisler



1st President Syngman Rhee

*"Coal is mined in the land, but nuclear energy is mined in the brain.
Countries like Korea that are poor in natural resources should
proactively develop nuclear energy."*



On-Time & Within the Budget Principle

- UAE Barakah 4 Units
- Saewul Nuclear Power Plant Complex : Home of APR1400's
 - Two in Operation
 - Two under Construction
 - Probably Two for the Future
- Hanwul NPP Complex : New Builds
- Czech Republic

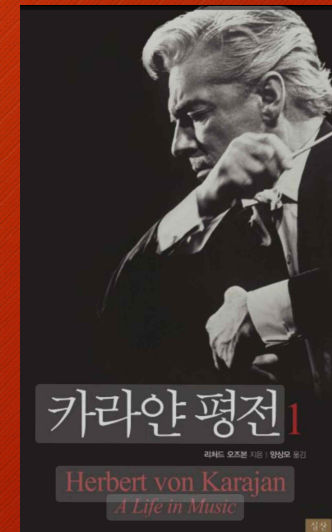
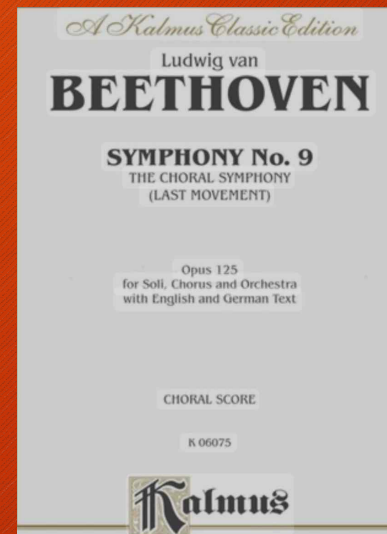
HOW?

- STANDARIZATION & REPETITION with Clear VISION

Supply Chain

- EPCM -

- Engineering
- Procurement
- Construction
- Manufacturing and Management



Doosan has an integrated manufacturing facility which is capable from raw material production to final assembly of components for nuclear power plants.



Casting & Forging Shop

Steelmaking & Foundry Shop



< Steelmaking & Foundry Shop >

- Overall Size : 394m x 140.5m x 29m
- Area : 55,357m²
- Number of bays : 6

Forging Shop

< Forging Shop >

- Overall Size : 492m x 160m x 25m
- Area : 78,720m²
- Number of bays : 6

Main Facilities



• Forging Press
(170MN or 17,000 tonnes)



• Heating Furnace
(Max. 450t, 6M (W) x 5M(H) x 18M(L))



• Heat Treatment Furnace
(Max. 300t, 11.2M (W) x 6.5M(H) x 20.2M(L))

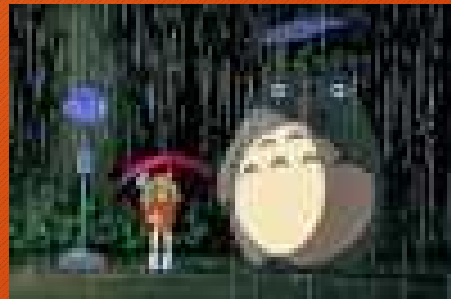
Fuel Cycle Business

- Natural Uranium Procurement
- Refining
- Conversion
- **Enrichment : Long Term Contracts**
- Fuel Manufacturing
- ISFSI
- Final Disposal

- Team Nuclear KORUS -



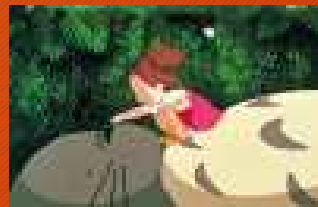
Same Vision for
PR-PP



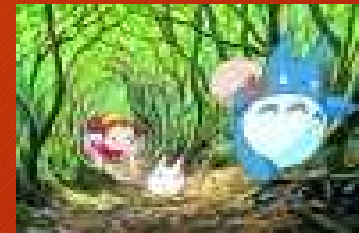
Understanding
Needs of Partners



Identifying Proper
Mechanisms



Mutual Trust



Going Together: Participation