



June 19, NE-RS 2025 Conference













Dukovany 5,6 NPP Project CONTENTS

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- 2. Overview of the Dukovany 5,6 Project
- 3. Progress of the Dukovany 5,6 Contract
- 4. Future Plans

APR 1000

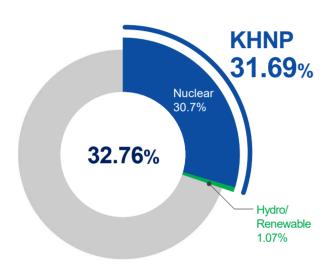




Produces One-Third of the Nation's Electricity

2024 Power Generation

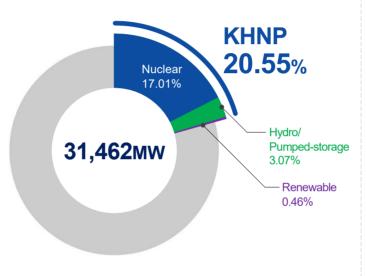
(Based on the Total Domestic Power Generation of 588,047GWh)



Proportion of the total domestic power generation

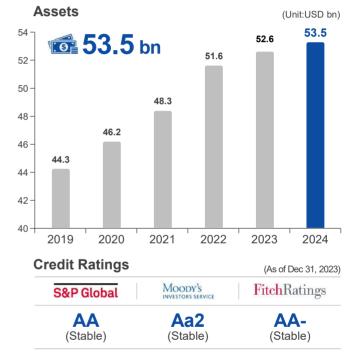
2024 Installed Capacity Distribution

(Based on the Total Domestic Installed Capacity of 153,071MW)



Installed Capacity

Robust Financial Stability

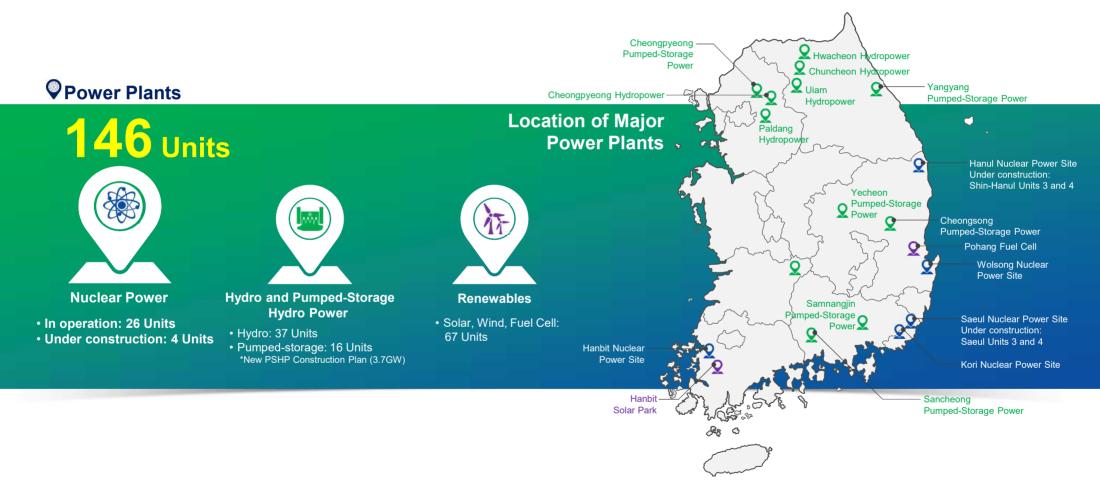




More than 12,500 Employees Including 7,500 Engineers



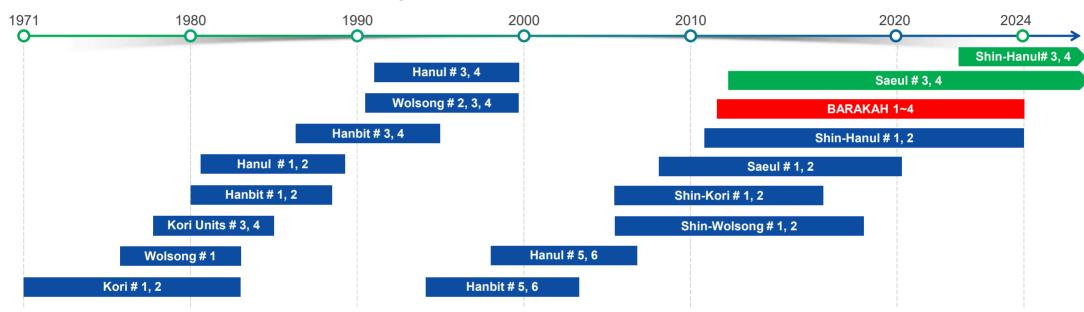
Korea's Largest Power Generation Company

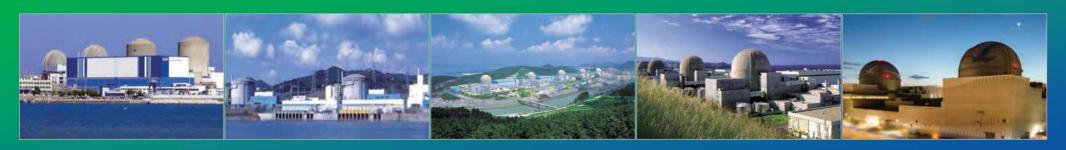




Over 50 Years of Continuous Construction

KHNP's Power Plant Construction History







Global Projects

QUAE Barakah NPP



- The first-ever nuclear power in the Middle East
- 4 units of APR1400 (Total 5,600MW) Unit #1 (2021), #2 (2022), #3 (2023), #4 (2024)

The only case among OECD countries since 2009 where a nuclear power plant export project has been successfully completed construction on time.

Romania



 Detailed design, equipment supply, construction, and commissioning(2023-2027)



Tritium Removal Facility Project in Romania

♥Egypt



• Supply of equipment, construction of turbine buildings, etc. (2022-2029)



Second Part of El-Dabaa Project in Egypt

Q Dukovany NPP in Czech Republic



- Czech New Build: Contract Signed
- 2 units APR1000 (1000MW, up to 4 units)



Reaffirming Korea's nuclear edge: 16 years post-UAE



Construction of Nuclear Power Plant in Korea

Saeul Unit 3 and Unit 4



- Capacity: 2 x 1,400MW (APR1400)
- Construction Start: April 2017 (Unit 3)

September 2018 (Unit 4)

• Completion: 2026 (Unit 3), 2026 (Unit 4)

Shin Hanul Unit 3 and Unit 4



- Capacity: 2 x 1,400MW (APR1400)
- Construction Start: May 2025 (Unit 3)

May 2026 (Unit 4, Planned)

• Completion: 2032 (Unit 3), 2033 (Unit 4)

KHNP President & CEO "We will do our utmost to ensure the safe construction of Shin Hanul Units 3 and 4, and Complete the project on time and within budget(May 20 2025)"





Project Overall – Dukovany 5,6

Overview and Progress of the Czech Nuclear Power Project

- Project Scope: Dukovany 5,6 (APR1000, 2units)
 - * Construction options for 2 units at Temelin (Temelin Units 3 and 4) to be determined later depending on progress
- Scope of Contract: Engineering, Procurement, and Construction (EPC) and nuclear Fuel supply
- Owner: EDU∏(Elektrárna Dukovany II, a.s.)
- Prime Contractor: KHNP(Korea Hydro & Nuclear Power Co, Ltd.)
 - * KHNP will form Team Korea with: KEPCO E&C(design), KEPCO NF(nuclear fuel supply), KEPCO KPS(maintenance) Doosan Enerbility(major components and construction), Daewoo E&C(Construction)
- Project Schedule: June 2025 ~ April 2038 (Total: 153 months)





Design & Licensing

Main Excavation Work Unit 5 Construction : F/C - RV Set - CHT - HFT - F/L - Provisional Acceptance

Unit 6 Construction: F/C - RV Set - CHT - HFT - F/L - Provisional Acceptance

- · LWA(Limited Work Authorization): Pre-construction phase involving limited preliminary activities such as design, permitting, licensing
- FNTP(Full Notice To Proceed): Commencement of full-scale construction activities covering the entire scope of the project





Milestones to Final Contract Signing

Press Briefing on the Preferred Bidder(17th July 2024)

Prime Minister

"The Dicision was unanimous"

"The KHNP offer was
better practically in all assessed criteria"



250 times(including virtual) negotiations

Approximately 7,000 Man-Day

CEOs of CEZ and KHNP



Shared Vision for the Project's Success



Negotiation Kick-off

Beginning the Preparation For the Final Contract

Negotiation(Jan)



Negotiation(Aug & Sep)

90 KHNP Engineer in CZ

End of Negotiation(Mar)

Negotiation(Nov & Dec)



60 CEZ Engineer in KOR 90 KHNP Engineer in CZ



60 KHNP Engineer in CZ



60 KHNP Engineer in CZ



Milestones to Final Contract Signing

Press Briefing on the Contract Signing(4th June 2025)

"KHNP offered the best conditions and also the strongest guarantees"

"This is an important step towards greater energy self-sufficiency and security for Czech Republic"



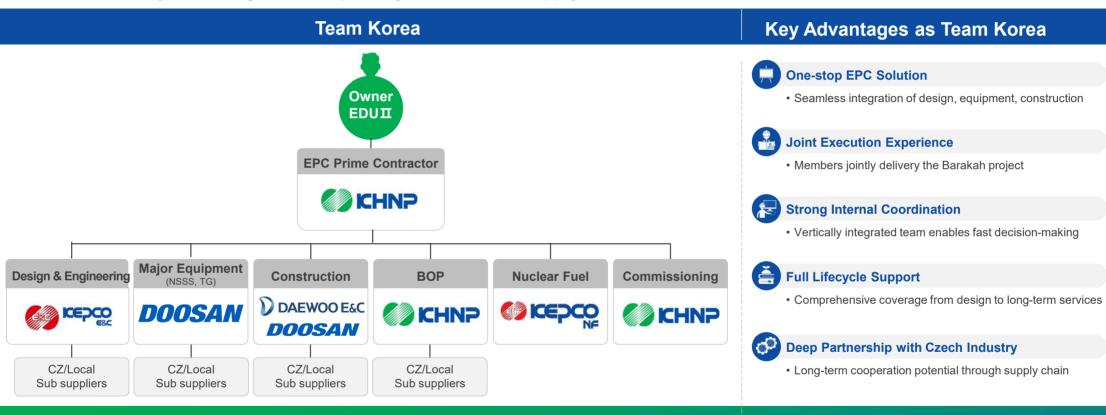






Project Structure of Team Korea

Proven Project Management Capability and Robust Supply Chain

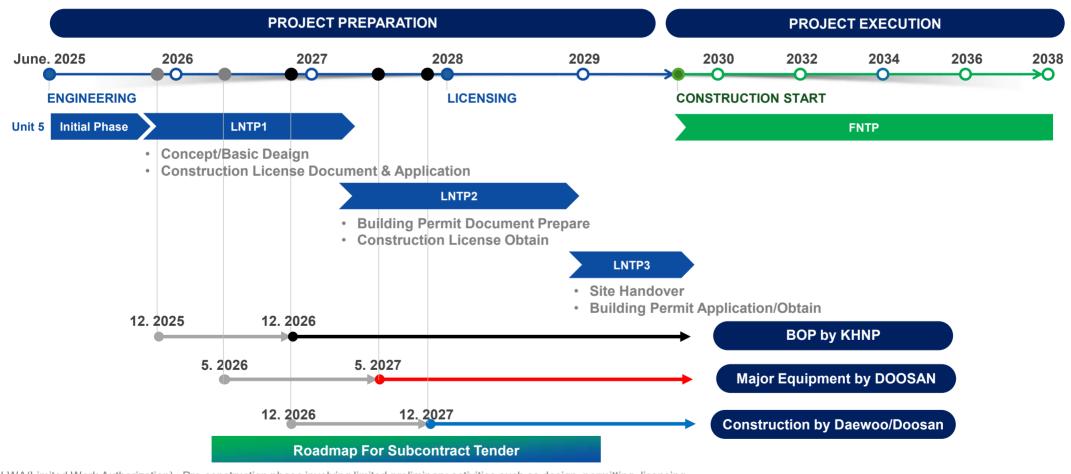


With the integrated capabilities of Team Korea, KHNP will ensure successful project execution - on time and within budget



Project Plan

Preparing for Full-scale Construction starting from 2029



- LWA(Limited Work Authorization): Pre-construction phase involving limited preliminary activities such as design, permitting, licensing
- FNTP(Full Notice To Proceed): Commencement of full-scale construction activities covering the entire scope of the project



Localization Implementation

Localization will be implemented and closely monitored throughout the project to achieve the goals by the project's end "Achievement of Planned localization: 60% By 2039"

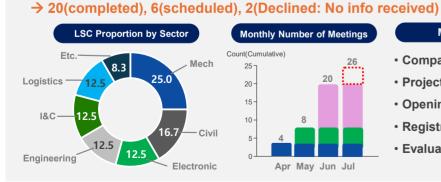
Localization Support Center(Launched on March 27)



Contact Point Registration

- email: localization.khnp@gmail.com
- Contact No.: +420 222 753 180

Operational Results of Localization Support Center • A total of 28 companies have requested meetings



Main Topics

- Company Introduction
- · Project Status update
- Opening time of SCM
- Registration Procedure
- Evaluation Method

Supplier Registration Information Session



Information Sessions on Procurement Plans and Participation Criteria will be held in July

Detailed Site Investigation & On-boarding Education

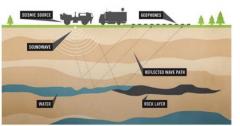
Site Data Acquisition and Licensing Documentation for NPP Structure and Facility Design
"To be conducted for 12 months after contract commencement by ČEZ EP"

Key Site Investigation Activities

Borehole Drilling



Surface Geophysical Survey



Cone Penetration Test



Surface Geophysical Survey



On-boarding Education Program for Owner and KHNP "To be conducted until December 2025 to support adaptation to the APR 1000 project"

Trading Content and Schedule

Stages	Training Topic	Target Participants	Location
On-boarding	Organization & Project Management	KHNP Employees	Korea
	APR1000 Overview	EDUII Employees	Czechia
	APR1000 System Overview	EDUII Employees	Czechia
Familiarization	APR1000 Design	EDUII Employees	Korea
	New Nuclear Equipment Procurement	EDUII Employees	Korea
	Document Management System	EDUII Employees	Korea



New President Lee and Prime Minister Fiala assessed that
The Signing of the final contract marks a "cornerstone" for deepening economic ties between the two countries

The two leaders agreed to work closely together to expand comprehensive cooperation in other area,

Including high-tech industries, infrastructure, and energy.

- 11 June 2025 -

The Commitment is made. The Delivery has begun.

(Korea and Czechia "100 years" partnership for the Nuclear industry)

Thank you

