Good afternoon, ladies and gentlemen. My name is Dojin JEONG; I’m Senior Manager of KHNP HQ, Czech Project Team. I am honored to be here with you today.

Now, I will give a presentation titled as “Introduction of KHNP & Korean nuclear power industry.”

Korea is located at the end of the Asian continent.
It has an area of 99,720 km2, a little bit bigger than (78,864 km2 in the) Czech Republic, with a population of 48 million (about 10 million in the Czech Republic). It is the 11th largest country in terms of GDP as of 2016.

Korea is known for companies such as Samsung Electronics, Hyundai and Kia Motors, and LG. In the Czech Republic, Korean companies such as Hyundai Motors, Hyundai Mobis, Nexen Tire, Doosan Skoda power and Korean Air are conducting their businesses.

Korea has poor natural resources and it was one of the poorest countries in the world after the Korean War in 1950.
However, since the introduction of the first nuclear power plant in the early 1970s, we have been able to achieve rapid economic development by supplying stable and abundant electric power at low prices based on continuous operation and construction of nuclear power plants.

Now, please have a look at these charts showing the general overview of electric power in Korea.

As of the end of last year, the installed capacity of nuclear power was over 23 GW, taking up approximately 22% of total installed capacity.

As for power generation, nuclear accounted for more than 30% of our total electricity generation in the year of 2016.

KHNP is a sole nuclear power operator and EPC(Engineering, Procurement, Construction) company for nuclear plant construction.

It was spun off from KEPCO (Korea Electric Power Company) in 2001 according to
Korean government’s electricity industry restructuring plan. KHNP’s asset reaches 43 billion euros and its credit rating is AA, which is same as that of Korean government. Currently, we operate 25 nuclear power plants with a capacity of 23.1GW. In addition, we carry out hydro-power, pumped storage, and renewable power generation.

KHNP has played a central role in the Korean nuclear industry.

We have constructed, owned, operated, and maintained nuclear power plants since 1971. During this course, we’ve developed and sustained robust supply chain for both construction and operation of nuclear power plants. The supply chain covers engineering, equipment supply, front and back-end fuel cycle, maintenance, construction, and R&D. This robust supply chain under KHNP’s leadership has proved Team Korea’s capabilities to carry out successful construction & operation of nuclear power plant domestically and internationally.
Korea has 25 nuclear power plants in operation in five sites, which are Hanul, Wolsong, Kori, Saeul and Hanbit. In addition, it shows five nuclear power plants under construction in two sites in Hanul and Saeul, and Four nuclear power plants are under planning stage in Hanul and Cheon-ji.

KHNP introduced the first nuclear power plant through Westinghouse, but since then, it has introduced nuclear power plants through a variety of suppliers including Framatom-Alstom from France and Atomic Energy of Canada. Throughout this process, we have successfully developed our own technology. Korea is the only country that has successfully developed and exported its own technology in a short period of time from pure importing countries.
This slide shows KHNP's ability to operate nuclear power plants. The 25 nuclear power plants operated by KHNP represent a much higher capacity factor than the world average and a good unplanned shutdown performance of 0.13 times per unit as of 2015.

This slide shows the picture of nuclear power plants under construction or planned in Korea. Five APR1400 nuclear power plants are under construction and four additional nuclear power plants are planning stage. Shin-Kori 4 has a 99% process rate and Shin-Hanul 1&2 has a total process rate of 92%. Shin-Kori 5&6 are currently under construction for a reactor building foundation. In addition, Shin-Hanul 3&4, and Cheon-ji 1&2 are scheduled to be constructed. KHNP hopes Czech suppliers with superior technology and competitiveness will participate in construction of these nuclear power plants as suppliers.
Korea has been building a nuclear power plant every 1.5 years for the past 40 years. In particular, KHNP has built a total of 12 same type of nuclear power plants from Hanbit 3 in 1995 to Shin-Wolsong 2 in 2015. Thanks to accumulated project management techniques and know-how, KHNP has been able to achieve dramatic reductions in construction time and cost. Based on this competitiveness (Accumulated Know-how, Excellent EPC cost, Excellent construction schedule management), KHNP was able to export 4 units of APR1400 of Barakha of United Arab Emirates (UAE)
Currently, the Barakha 1&2 units have a process rate of 88%. Despite many people were concerned that the project will not be easy, due to the unfavorable environment - such as sultry climate and sand wind, the Barakha project is proceeding smoothly, which is unprecedented in the world's nuclear power plant construction history.

The same applies to new nuclear power projects in central and eastern Europe, such as the Czech Republic, Poland, Slovakia and Finland, where KHNP is making effort to develop businesses. KHNP is doing its best to win these projects, along with the government of the Republic of Korea. In order to accomplish these projects successfully, KHNP is willing to form a partnership with Czech companies and propose cooperation for mutual benefit. To be more responsive and active for the project in Czech and neighboring countries, we opened KHNP Czech Office in Prague in August last year.
We hope this event will be a meaningful opportunity to familiarize KHNP to local communities, and to get closer to local residents. We wish to strengthen our relationship through diverse meetings in the future.

Thank you for your attention.