

## TEXT of Speech for Minister RHEE

### **“International Networking on SMRs”**

As being concluded at the 5<sup>th</sup> IAEA INPRO Dialog Forum, which was held in August last year in Seoul, Korea, SMR is going to play an important role for electricity production, as well as sea water desalination and process heat production in the near future.

SMR is more promising for early deployment in many parts of the world in view of safety and grid capacity than large sized power plants, in particular, after Fukushima accident, which was happened on 11<sup>th</sup> March 2011.

There are four types of SMRs now under development in Korea.

The first one is integral type of light water cooled SMR, so-called SMART, which has been developed by Korea Atomic Energy Research Institute with extensive support and cooperation from the IAEA. Design certificate on 100 MWe SMART has been awarded from Korea Institute of Nuclear Safety (KINS).

The second is sodium cooled fast SMR, named KALIMER, which is developed under Generation IV International Forum (GIF) cooperation framework, mainly to use and burn TRU fuel.

The third is high temperature gas cooled SMR, which is also developed under GIF cooperation framework, to generate hydrogen, which will be used for transportation without emitting CO<sub>2</sub> to the environment.

The fourth is lead bismuth cooled SMR, called URANUS-40, which is developed for burn and transmute high level nuclear waste.

Through IAEA Dialog Forum, we expect to exchange different concepts, ideas, safety aspects, licensing experiences, and so on to deploy SMRs between supplier countries of SMRs and receiving countries of SMRs.

‘Green Life Intellectual Network’ has been given to do a role to share information on SMRs through international networking by the Korean government.

In this regard, ‘Green Life Intellectual Network’ would like to share views on SMR and to propose to exchange “MOU on International Networking on SMR” with participants of the 6<sup>th</sup> Dialog Forum at the proper time in this week.

Thank you very much.