

*Remarks on Seminar on the FR development in the world*

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- In the seminar, it was appreciated the views that fast reactor is being developed in the countries with national strategy of securing energy and strong interest and significance of development is placed in terms of sustainable energy security by fast reactors are shared and appreciated with fruitful discussions.
- Nuclear energy is the most realistic and the most feasible option both as key energy for infrastructure of world population which is expected to exceed 10 billion in the second half of this century and as a technology to generate electricity to control greenhouse gas emission in order to prevent global warming.
- The development and establishment of fast reactors and fuel cycle technology is an essential goal to make nuclear energy for electric generation sustainable with limited uranium resources which are used as nuclear fuel. Therefore, this is a theme to be tackled in the international framework.
- The fast reactor technology is a way to realize long-term stable energy supply in a country which is interested in introducing nuclear energy. Making the utmost efforts for cooperation is needed among the leading nations of fast reactor development to see emerging countries had benefits from the technology.
- Fast reactors, as the Generation IV reactors, are required the highest level of safety for operation. As a matter of course, the reactor should have tolerance against disasters like the accidents at the Fukushima Daiichi nuclear power plants following tsunami by the earthquake hit the north-east Japan. At the same time, any challenges should not be left by reflecting the lessons from the nuclear events.
- The experiences and findings from Monju operation are appreciated to lay an unshakable foundation for Japan's stable energy supply. Technical achievements are highly expected in many countries in the world. Monju is placed to be a center of excellence for the development of Generation IV reactors as a national and international asset. Efficient and steady utilization of Monju will be national interests and international contributions.
- The fast reactor technology is imperative for Japan's energy security strategy which will be a provision for various uncertainties in the future. Monju should be a bearer of the important role to clarify technical challenges to lead directly to commercialization and provide a guideline to resolve the challenges.