

Young generation event

- What international cooperation is desirable with regard to fast reactor technology development and deployment to meet global nuclear energy sustainability requirements?
 - Evaluation of environment for nuclear fuel recycling
 - Availability of uranium resource
 - Reduce the high level waste
 - Economic evaluation
 - Estimation of the cost about construction, O&M, recycling, storage, etc.
 - Study on the commercial operation of Rokkasyo-mura
 - Construction cost & O&M cost (2340 billion ~ 30520 biliion \pm ?)
 - Analysis of economical benefit for the fuel recycling

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- What role do you expect for IAEA in the international cooperation with regard to fast reactor technology development and deployment?
 - Development of restriction standard & regulatory guidelines
 - Draw up a list of political problem
 - Draw up a list of technical problem
 - Development of safety evaluation method
 - Safety of fuel, evaluation method of accident, safety of sodium, structural material, structural health, Instrumentation and control system, onsite electrical system, human factor engineering, severe accident
 - Development of computer code organization
 - Performance and safety of fuel, structural Integrity, safety of system, PSA, severe accident, Radiation
 - Draw up a list of experimental verification

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- What international cooperation do you expect for the world's young generation?
 - The research purpose is to establish a sustainable nuclear energy for improving the availability of uranium resource by 2 orders of magnitude higher resource efficiency and for reducing the amount of high-level nuclear waste and the size of waste disposal site as well
 - international cooperation for the next generation reactors
 - To develop an innovative sodium/water reaction free energy conversion system for the Sodium-cooled Fast Reactor (SFR)
 - Innovative heat exchanger design for the next generation reactor (Recuperator, Precooler, and Intermediate Heat Exchanger, etc.)
 - Development of a new core design based on an appropriate objective
 - Improve the efficiency of fuel recycling

Thank you for your attention

