

Session Title: Small Modular Reactor for Nuclear

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Abstract title: Status of Japan in development of innovative reactor

The development of the innovative reactor in Japan has been focused on SFR and HTGR. SFR development aims at the effective use of uranium and the reduction of the burden on the radioactive waste. And, HTGR development takes the utilization of hydrogen into consideration. We have no SMR deployment experience but some design works. The SMR realization depends on not only safety but also economics. And, we also should consider the best ratio of nuclear power and variable renewable energy with their increase for the future CO₂ reduction. Therefore, SMR may be an option in the development of innovative reactor.