

Session Title:

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Abstract title:

What is the vision for nuclear energy that supports carbon neutrality in 2050?

Abstract text (within 100 words):

Japanese original nuclear fuel cycle with reactor-safety should be clarified for nuclear energy that supports carbon neutrality in 2050. In Japan, where resources are scarce, the land is small, the population density is high, the much-spent nuclear fuel is generated. The desirable nuclear fuel cycle required:

- ① Utilization and reduction of Plutonium**
- ② Wastes (Minor Actinides) decrease**
- ③ A reprocessing with low decontamination coefficient and treatment of debris from the Fukushima Daiichi Power Plant accident**
- ④ Economical and multi nuclear fuel cycle**

One of most promising candidates for fuel cycle is the metallic one with dirty fuel but clean waste.