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## **Suitability Study and Preparation for Small Modular Reactors as a Part of Energy Mix in Thailand**

Energy is considered a key factor in the national development of Thailand. The new National Energy Development Plan, PDP 2023/2024 is being reviewed for approval by the Parliament. Small Modular Reactors (SMR) may be included in this plan. Thailand has joined the Paris Agreement to prevent climate change. Therefore, it is necessary to reduce greenhouse gas emissions as much as possible. The SMR technology is an opportunity and an option for this PDP. The SMR can support renewable energy by connecting to the “SMART Grid”. To implement SMR, it is necessary to study the advantages and disadvantages of the technology. The study explores the possibility of the SMR application in Thailand. Therefore, cooperation from many related agencies is established. This includes the operator, the regulatory body, the educational institution, and other stakeholders. The collaborators will discuss key topics, namely, technology selection, potential applications in Thailand, financing, regulation and licensing, and waste and spent fuels management. This paper will present the suitability study and preparation for introducing SMR technology in Thailand through cooperation between related organizations.

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Thailand

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### **Confirm that the work is original and has not been published anywhere else**

yes

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