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## Initiatives in INPRO for SMRs

The concept of sustainable nuclear energy development through strategic energy planning is facilitated by the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO), a key programme of the International Atomic Energy Agency (IAEA). The INPRO programme has various activities supporting Member States (MSs) in strategic planning for sustainable nuclear energy incorporating small modular reactors (SMRs). INPRO brings together technology developers and users in capacity building. INPRO's collaborative SMR projects, aim to formulate prospective scenarios and success factors for sustainable nuclear energy systems deployment with SMRs, including potential cooperation models. Additionally, INPRO supports MSs through its nuclear energy system assessment (NESA) utilizing the holistic INPRO methodology, which encompasses six key areas for sustainability: economics, safety, infrastructure, environmental impacts, proliferation resistance, and waste management. INPRO is working with several MSs in performing NESA's for SMRs. Another project is the INPRO Dialogue Forums (DF), which provides a platform for technology holders and users to exchange knowledge on sustainable nuclear energy development and deployment; specifically, the 21st and 22nd DFs addressed SMRs. The INPRO methodology assesses nuclear energy systems to identify gaps in sustainability during design phases and promotes advancing sustainable SMR deployment.

### Country OR International Organization

IAEA

### Email address

c.scherer@iaea.org

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

YES

**Author:** Ms DAS, Nilormi (IAEA-INPRO)

**Co-authors:** SCHERER, Carolynn (IAEA - INPRO); Ms JEON, Sera (IAEA-INPRO); Ms SAYIN, Gaye (IAEA-INPRO)

**Presenter:** Ms DAS, Nilormi (IAEA-INPRO)

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