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Feasibility Study for Deployment of Future SMR in IAEA Member Country

The abstract focuses on a feasibility study conducted in [reference county] where an evaluation of the suitability of various sites for hosting a small modular reactor (SMR) nuclear power plant (NPP) was conducted. The study assesses mature SMR technologies and provide insights into the next steps for deploying an SMR in [reference country]. The approach of the study is based on the guidelines established by the International Atomic Energy Agency (IAEA) in NG-T-3.3, NR-T-1.10, SSR-1, SSG-35, and SSG-79 and considers the priorities and needs identified by [country] stakeholders.

The feasibility study is divided into two phases. Phase 1 involves a "red flags" study of the proposed sites to ensure their suitability for a new NPP. The outcome of Phase 1 confirms the suitability of multiple sites for hosting at least 1 market available SMR technology for further assessment.

Phase 2 of the study characterizes the complex process of deploying an SMR in [country]. This phase includes a more detailed examination of the potential sites and an evaluation of various reactor technologies that best meets the needs of [country]. Various topics such as cogeneration, environmental, natural and manmade hazards, waste management, and water usage are also addressed in Phase 2.

The feasibility study is a collaborative effort between [country] stakeholders and subject matter experts from Sargent & Lundy LLC. The study provides objective and defensible evaluations based on IAEA guidelines and reflect the priorities and values of [country] stakeholders.

Country OR International Organization

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