STAKEHOLDER ENGAGEMENT FOR THE DEPLOYMENT OF FLOATING NUCLEAR POWER PLANTS IN NORDIC REGIONS

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In remote Nordic regions, where extreme weather conditions and limited grid infrastructure hinder reliable energy access, dependence on fossil fuels remains a pressing challenge. Floating Nuclear Power Plants (FNPPs) offer a transformative solution by delivering stable, low-carbon electricity directly to coastal communities without the need for large-scale transmission networks. Their modular and mobile design enables flexible deployment, reducing reliance on imported fuels, enhancing energy security, and supporting long-term sustainability in these isolated areas. The implementation of the Stakeholder Engagement will involve a structured approach to identify, consult, and collaborate with key actors throughout the lifecycle of FNPPs and their associated fuel management facilities. The engagement process will be divided into three key phases: Stakeholder Mapping and Analysis, Reaching Strategies, and Analysing and Processing Data. In the Stakeholder Mapping and Analysis phase, relevant parties such as governmental agencies, local communities, environmental organizations, private entities, maritime authorities, and nuclear regulators will be identified, and their interests, concerns, and potential influence on the project will be assessed. A detailed stakeholder matrix will be developed to categorize and prioritize engagement actions based on stakeholder impact and interest levels. The Reaching Strategy phase will focus on establishing transparent communication channels tailored to different audiences. Using a survey and an interview methodology reach different stakeholders and obtain information, especially regarding the safe transportation, storage, and recycling of spent nuclear fuel. The final phase, Analysing and Processing Data, will be held to understand the opinion and engagement of the stakeholders in the project of management of nuclear waste produced by floating nuclear power plants. This engagement strategy aims to ensure that all stakeholder perspectives are considered, fostering transparency, public acceptance, and regulatory alignment while supporting the successful deployment of FNPPs and the development of the Centralized Spent Fuel & Waste Management facility.

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