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Readiness of International Legal Instruments to Regulate SMR's.

Problem

There is a new wave of interest for the generation of nuclear power using SMR's. The effectiveness and appropriateness of current international legal binding instruments to regulate Small Modular Reactors (SMRs) needs to be assessed and validated. There seems to be a consensus on the fact that international legal binding instruments are not ready to regulate and control SMRs. It is, therefore, a challenge that needs to be investigated and this study aims to unpack that.

Purpose

The purpose is to find and analyze international legal binding instruments compatibility and effectiveness in order to control SMRs. The authors will systematically study the identified international legal binding instruments under the auspices of the IAEA in the areas of safety, security, safeguards and nuclear liability, and highlight areas of alliance of sustainability to control SMRs. All the findings will be listed, and all the gaps will be identified.

Method

The analysis of identified international binding instruments with the aims to identify shortfall and gaps to correct in order to effectively regulate and ensure safety and security during the operational life of a SMR.

Conclusion

This conclusion aims to show out all the gaps that the methodologies of analysis had identified and also to propose possible solutions and amendments in order to become effective and compatible with SMRs. The authors hope that funding will be covered by the IAEA in order to write the full investigation study and present a paper at the Conference.

Country OR International Organization

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

Yes.

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