

EASI SMR

*Powering a safer future
for Light-Water SMRs*

THE PROJECT IN A NUTSHELL

Ensuring Assessment of Safety Innovation for SMR (EASI-SMR) is a four-year project project that addresses safety issues associated with Light-Water Small Modular Reactors (LW-SMR) innovations. It endeavors to advance the technologies that will support these innovations for rapid deployment across Europe and beyond.

The project research activities support further design, construction, commissioning and operation of LW-SMR reactors in the safest way.

OUR ADDED VALUE

The objectives set by the EU in terms of energy transition and industries decarbonation offer huge potential market opportunities, attracting many players who are active in bringing SMRs technologies to reality in Europe. The EASI SMR project will facilitate this deployment by tackling the various R&D gaps associated with design innovations, thereby ensuring:



LW-SMR acceptability



EU energy security



LW-SMR safety



EU decarbonisation

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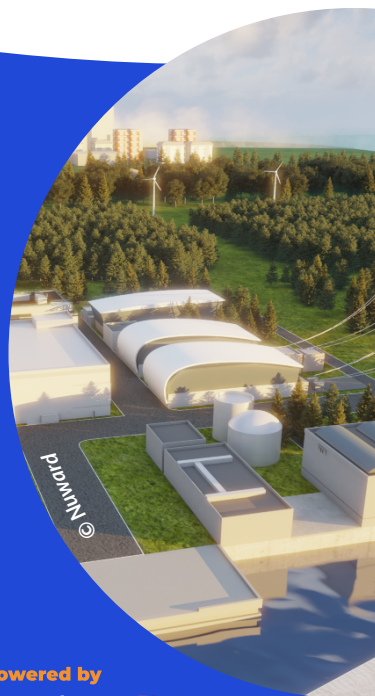


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OUR OBJECTIVES



Ensure the highest level of the safety of LW SMRs based on passive systems



Assess the safety impact of LW-SMRs designs' specificities



Address regulatory and societal challenges towards the deployment of SMRs in Europe

OUR EXPECTED IMPACTS

- 1 Enhanced safety assessment of passive systems
- 2 Improved regulatory approval for nuclear components fabricated by additive manufacturing techniques
- 3 Advanced methods and tools for LW-SMR boron free core analysis
- 4 Improved understanding of Human & Organisational factors at stake in LW-SMRs operation
- 5 Support a shared and coherent approach among regulators regarding safety requirements for LW-SMRs
- 6 Better understanding and acceptance of LW-SMRs in the EU



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