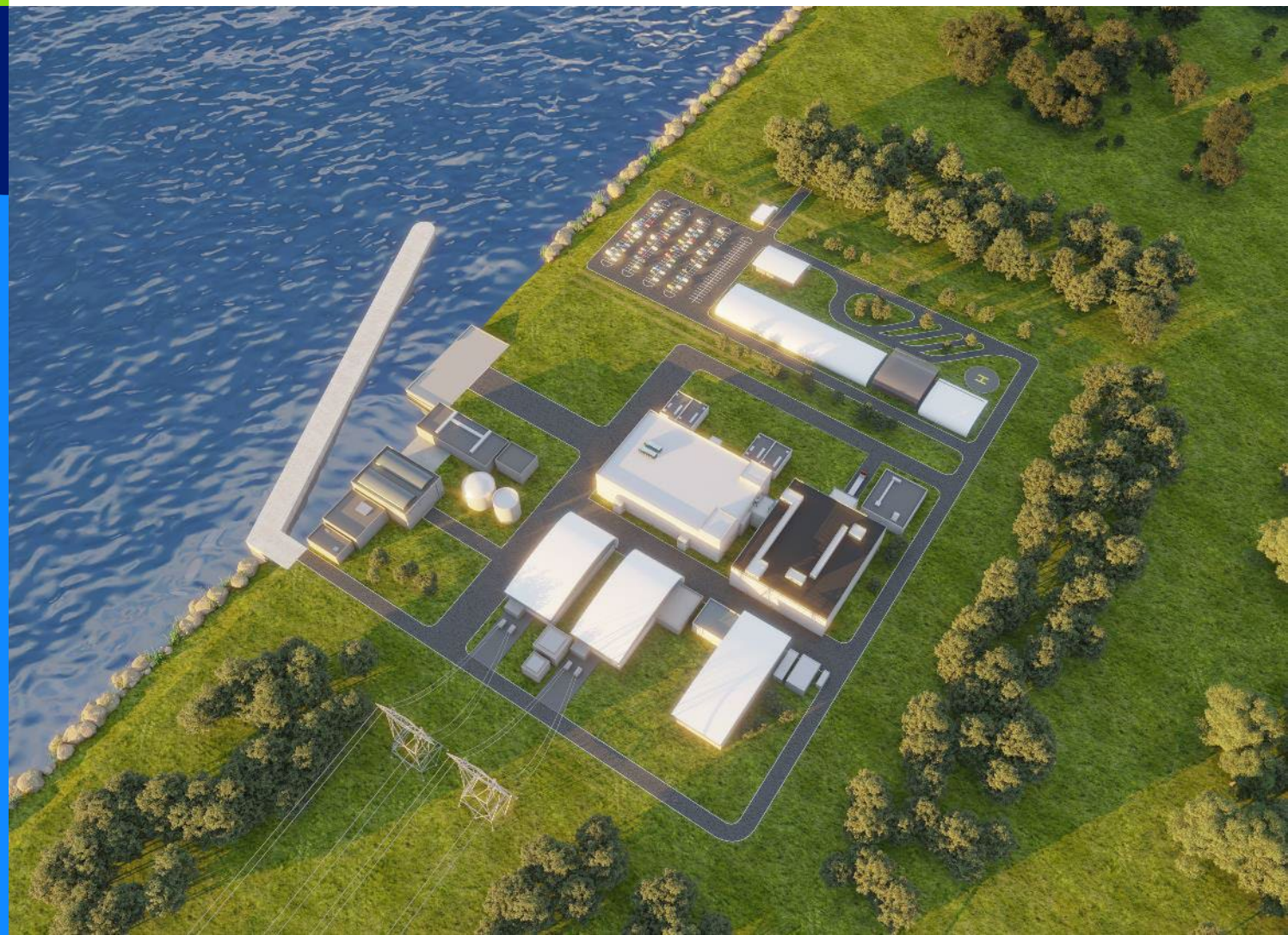


NUWARD SMR

ENSREG Conference 2024 Session 4a *Regulatory approaches for licensing of SMRs: Industry organization and safety issues*

Brussels
24-25 June 2024

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NUWARD SMR: Experience based technology leveraging a unique know-how



Global SMR Licensing Context

STANDARDISATION

Industry need = standardised designs for international deployment without major changes

TODAY'S REALITY

Country-specific regulatory frameworks present differences and do not cover all SMR-specific aspects

PRE-LICENSING IMPORTANCE

Addressing important SMR design aspects at the right moment following a staged and graded approach

LONG-TERM HARMONISATION OBJECTIVE

International harmonisation initiatives are on-going but they take time

nuward SMR: the Joint Early Review

Pragmatic approach to global SMR licensing context

✓ STANDARDISATION

NUWARD need = standardised design for international deployment without major changes

✓ TODAY'S REALITY

Country-specific regulatory frameworks present differences and do not cover all SMR-specific aspects

✓ PRE-LICENSING IMPORTANCE

- France: Safety Options File as a basis
- Internationally: Joint Early Review answering same objective of early engagement with regulators

✓ LONG-TERM HARMONISATION OBJECTIVE

International harmonisation initiatives are on-going but they take time
Example IAEA NHSI

nuward SMR: the Joint Early Review

Main objectives:

- Foster exchanges with several European regulators on the NUWARD SMR design and its safety approach
- Identify key enablers and conditions to meet licensing expectations in participating countries
- Enable all participants to increase their respective knowledge of each other's regulatory practices



Phase 1 completed with three European nuclear safety authorities (6/2022 – 6/2023)

NUWARD and Regulators Summary Reports published

Phase 2 ongoing with three more European nuclear safety authorities (12/2023 – 12/2024)

nuward SMR: the Joint Early Review

Context of international harmonisation initiatives



Joint Early Review contributes to creating enabling conditions for harmonisation

- Sharing between regulators could motivate regulatory changes and harmonisation on a voluntary basis

IAEA NHSI

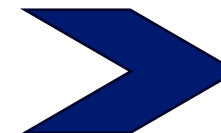
- Regulatory Track WG2 (**multinational pre-licensing design review**):
 - Joint Early Review experience can provide useful input to the development of a process and criteria
- Regulatory Track WG3 (**leveraging other regulators' reviews**):
 - ... how regulators can use other regulators' reviews (leveraging of existing regulatory reviews)
 - ... how regulators can work together during regulatory reviews carried out at the same time

More harmonisation contributes to enabling conditions for leveraging other regulators' reviews

- Developing approaches and best practices for leveraging other regulators' reviews will be key for efficient Nth-of-a-kind licensing of a standardized design in different countries

European SMR pre-Partnership workstream 2 (licensing)

- Joint Early Review is in line with the objectives defined in the closure report



European Industrial Alliance on SMRs



Thank you

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