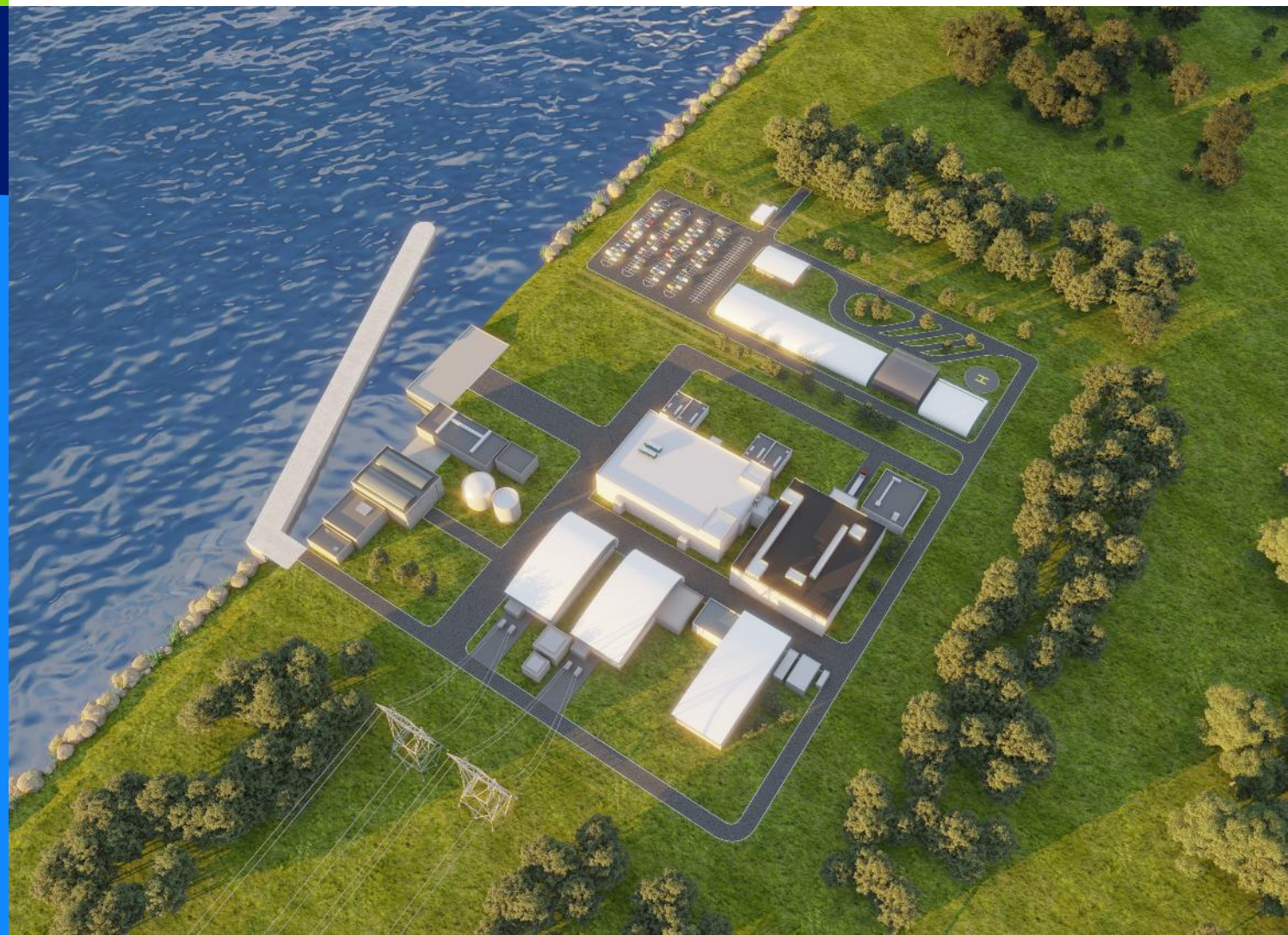


European Energy Forum

The role of SMRs in EU's strategic autonomy and decarbonisation: a value chain approach

Strasbourg – 21/11/2023

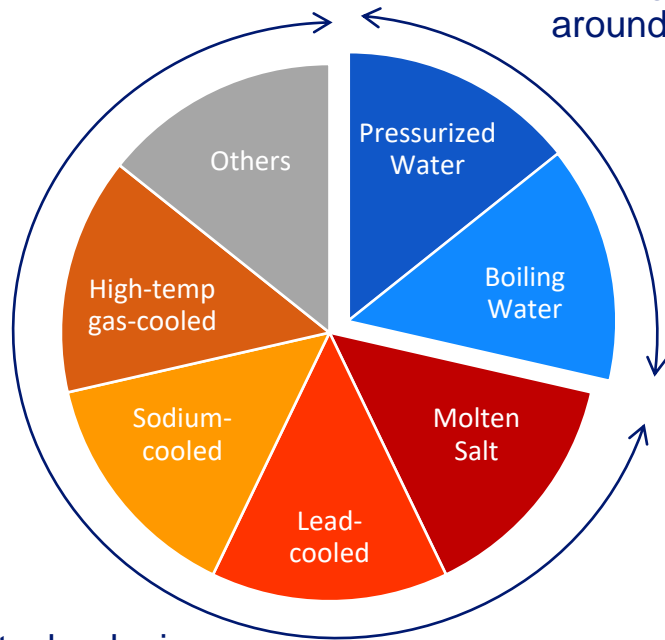
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Quick overview of SMR/AMR being developed

All kinds of nuclear fission technologies

Gen 3 technologies
Racing for first plant
around 2030



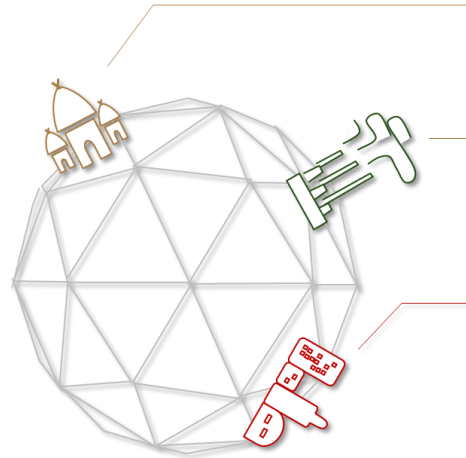
Gen 4 technologies
Ambitious targets but more likely to
be ready between 2040 and 2050

All scales for several uses and markets

5 to 15 MWe for electricity needs disconnected from the grid such as remote communities or military bases.

15 to 200 MWe for heat or electricity generation for large industrial sites such as mines or gas extraction or Hydrogen production.

~ 200 to 400 MWe for electricity generation connected to the grid



The objectives of NUWARD SMR

Decarbonize economies

Three main market segments:

- Replacing coal-fired power plants in the 300-400 MWe range,
- Energy-intensive industrial sites,
- Powering grids with limited capacity or demanding small incremental power build-up



NUWARD SMR: a PWR 340MWe power plant



2 integrated reactors of 170 MWe each, standard UO2 fuel <5% enrichment



>90% availability; compatible with ENTSO-E grid requirements; **60 years** of operation; **load-following** capability



Safety objectives that meet the best international standards



Modular approach and **simple competitive design** targeting **40-month** construction duration for a NOAK



Improved **landscape** integration



Designed for export, allowing adaptation to multiple markets without significant re-design

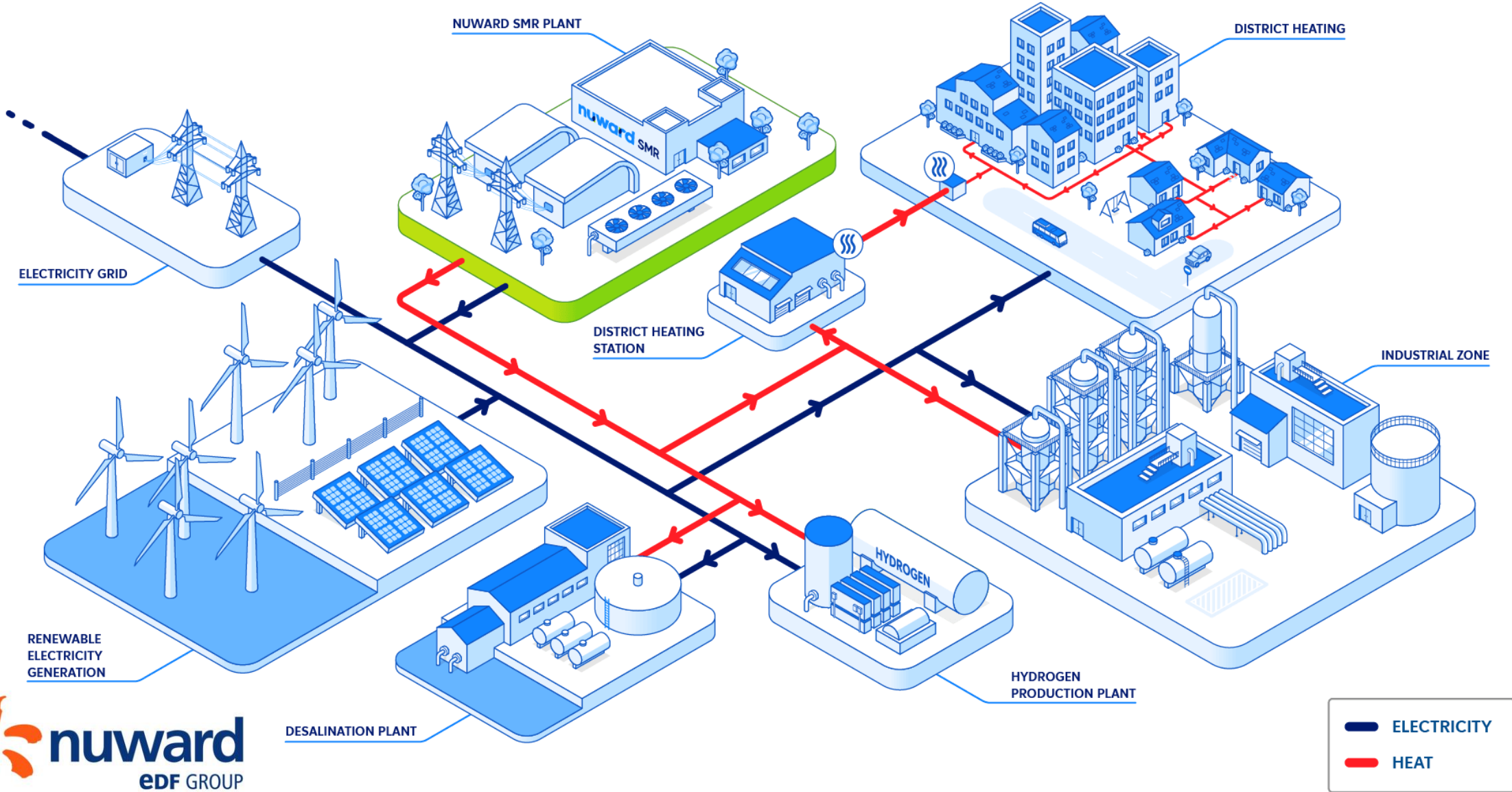


First Nuclear Concrete in France in 2030



Multipurpose by design: H2, district heating, desalination, heat & electricity cogeneration, CO2 capture

NUWARD SMR is designed to support various energy intensive applications



European by design



Unparalleled design construction and operation **experience and expertise based in EU**



Fully owned **EU Intellectual Property**



Industrial capacity and capability relying in majority on the **European Nuclear Industry & Supply Chain**



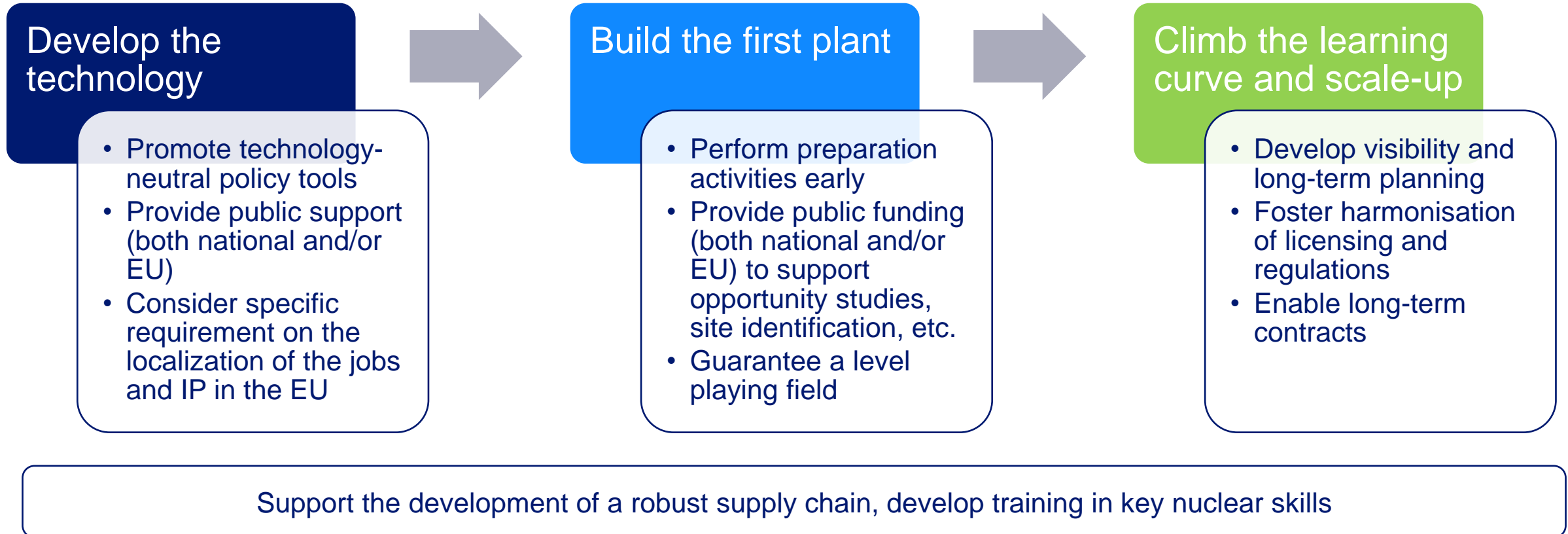
Already benefiting from technical exchanges with several **European regulators**



Adapted to **EU market needs**



Key success factors for SMR to contribute to the fight against climate change and energy security



Thank you!

To learn more: www.nuward.com

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