



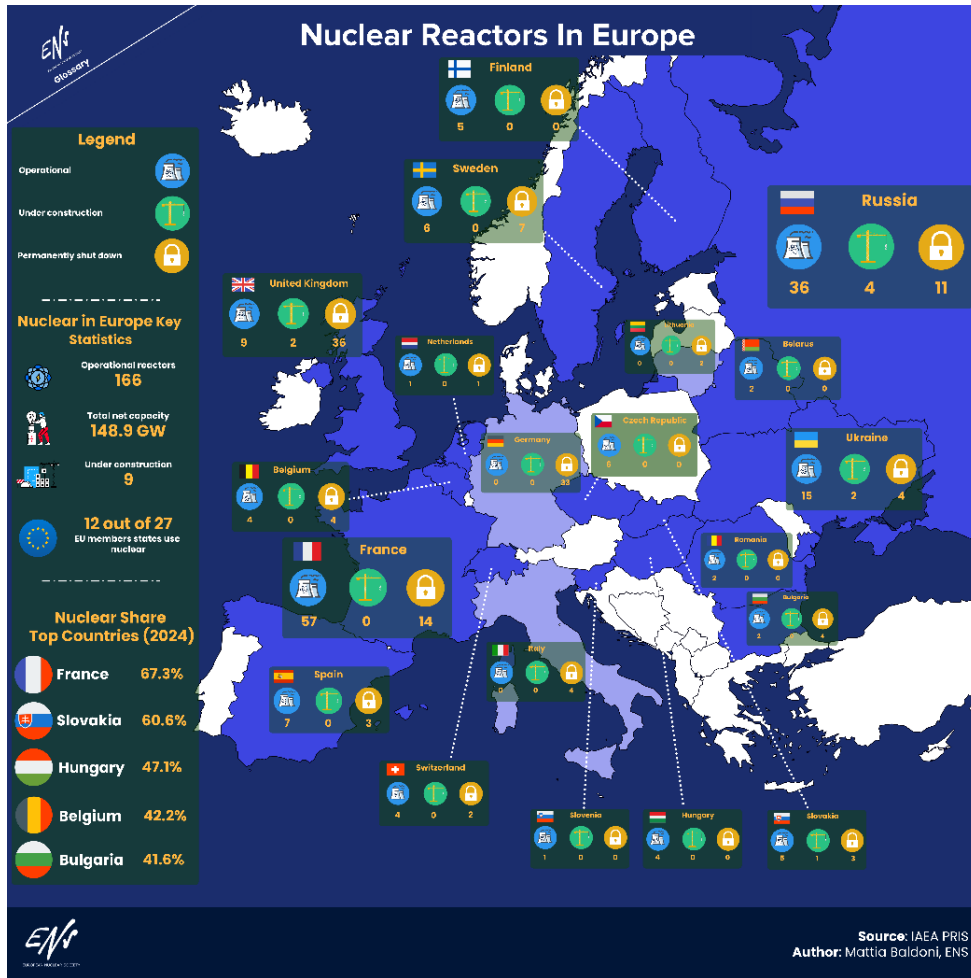
EUROPEAN NUCLEAR SOCIETY

THE LARGEST NUCLEAR COMMUNITY IN EUROPE

INNOVATION



Nuclear Power Units in Europe

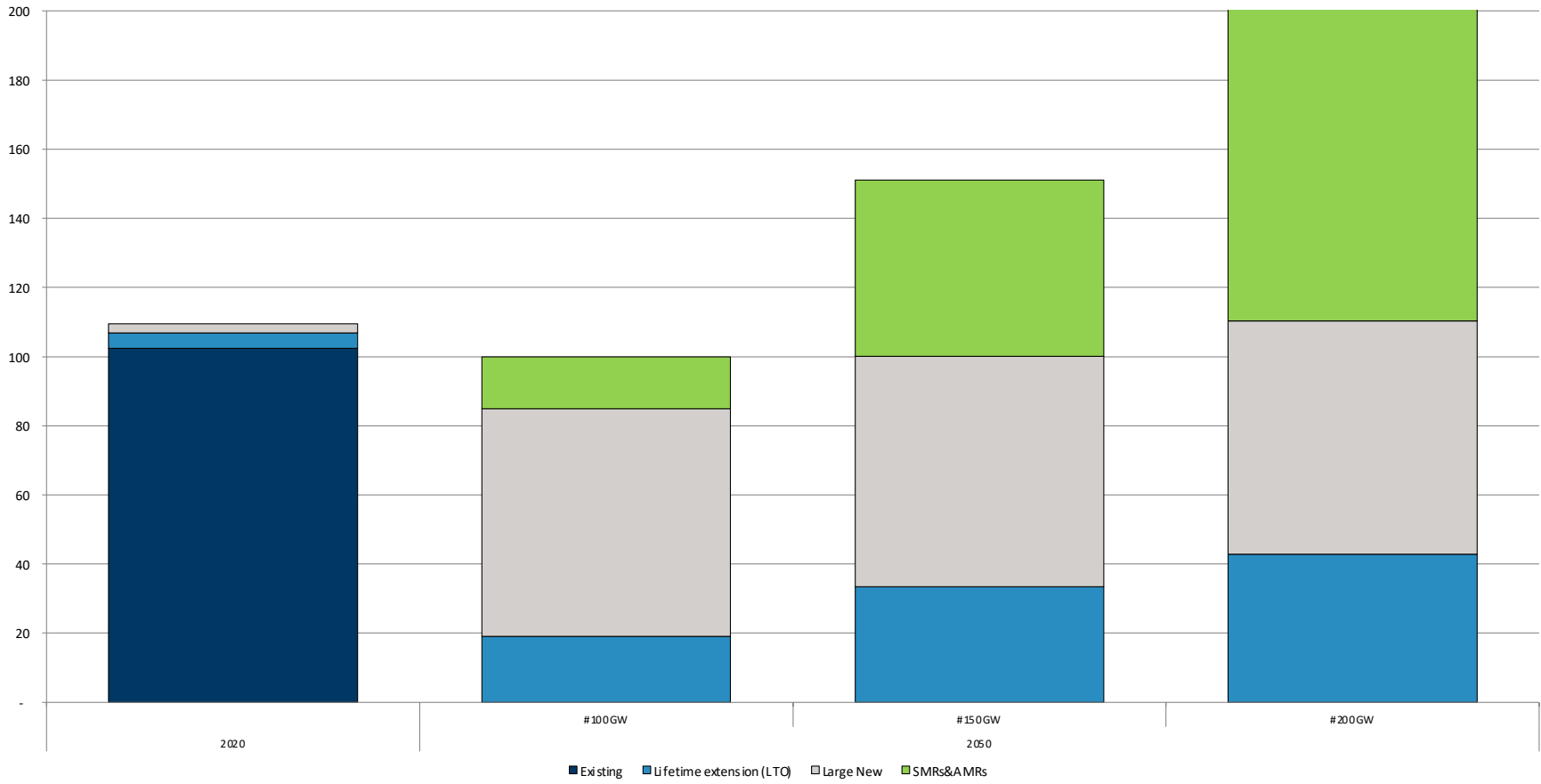


- Today, 166 reactors are operating in Europe, with a total capacity of 148.9 GWe.
- 9 reactors are currently under construction, plus 4 in Turkey
- The world's Top 9 nuclear shares are all in Europe. In the first positions, France (67.3%), Slovakia (60.6%), Hungary (47.1%) and Belgium (42.2%).

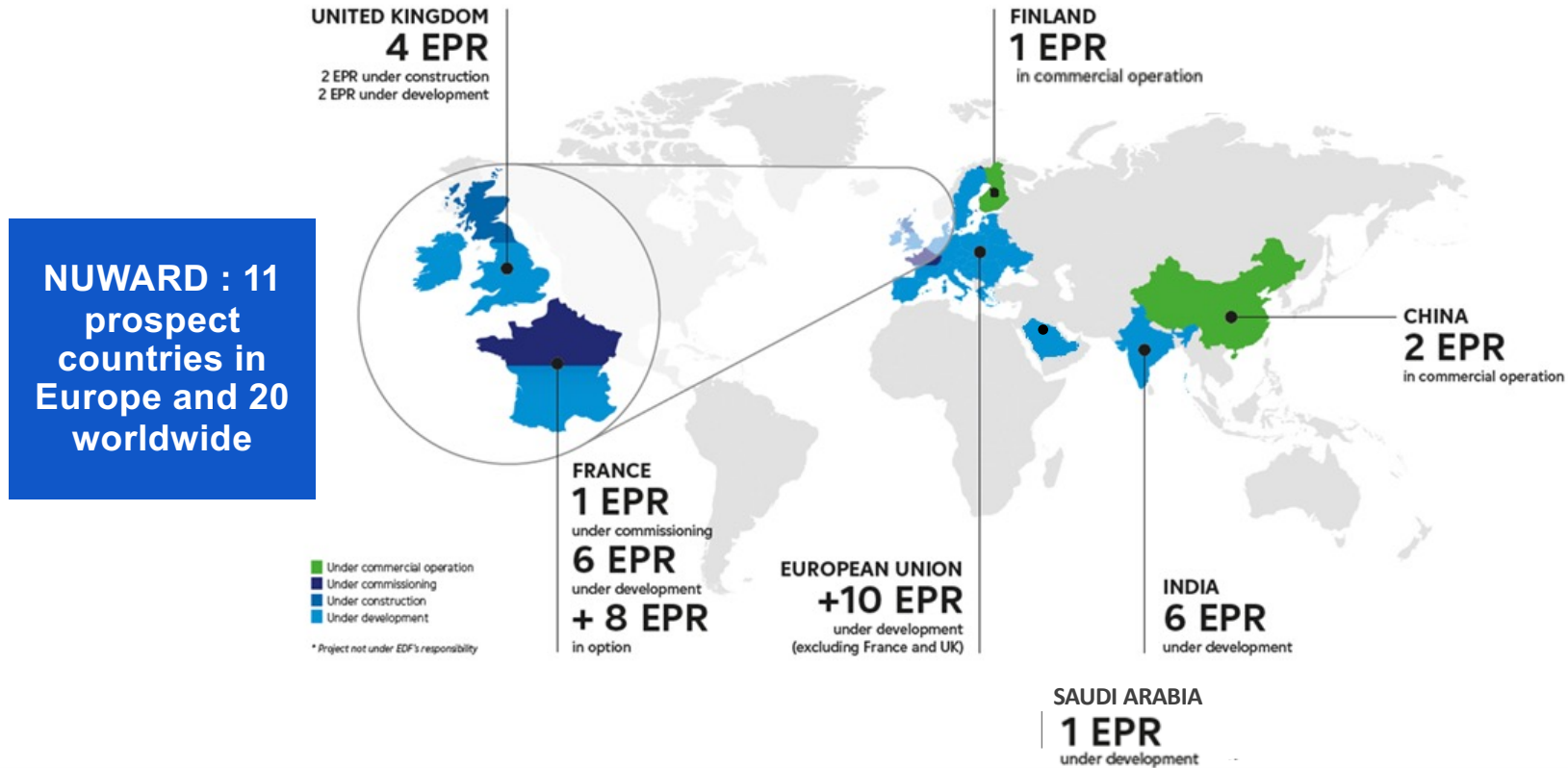
In the European Union: 27 Member States



Three nuclear scenarios in EU for 2050 composed as follows



EDF: A concrete Perspective for EPR Projects Across the World



EDF is fully engaged in nuclear new build activities and is committed to supporting several countries in their nuclear program development with a focus on Europe and India

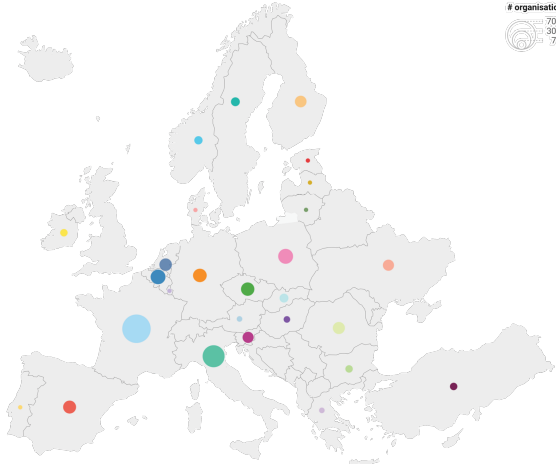
Other NPPs in EU planned or under construction

| EU Country | Reactor type and # | Comments |
|----------------|--|--|
| Bulgaria | 2x AP1000 | Firm committment |
| Czech Republic | 2x APR1000 | Contract signed |
| Finland | SMR LDR-50 | District heating |
| Hungary | 2x VVER 1200 | Under construction |
| Netherland | 2x large LWR 1000-1650MW | EPR2 is an option (see prev slide). Interest in Nuward |
| Poland | 3x AP1000 +2x large LWR (APR1400, EPR2...) + 2x SMR-BWRX | Final contract with WEC and Bechtel under negotiation |
| Romania | 2x CANDU + 6x SMR-Nuscale VOYGR | CANDU under construction SMRs planned |
| Slovakia | 1x VVER V-213 - Mochovce-4 | Under construction |
| Slovenia | 1x large LWR | Unknown technology |
| Sweden | 2x large LWR + 2x SMR | Unknown technologies |

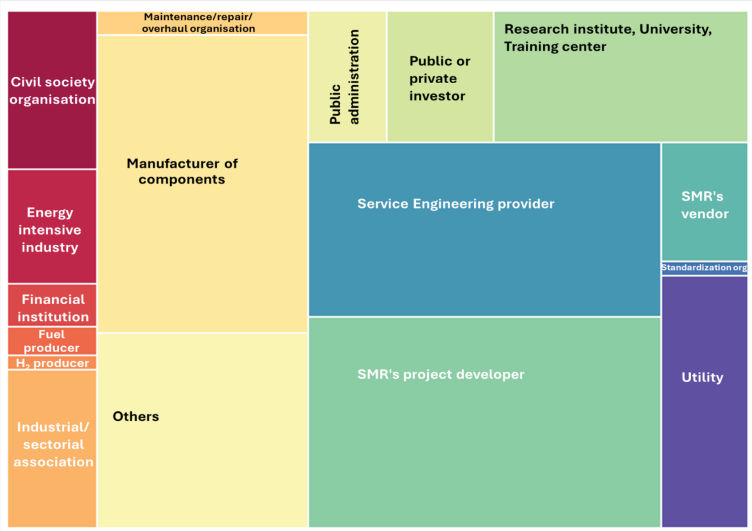
European Industrial Alliance on **SMALL MODULAR REACTORS**

9 PROJECTS SELECTED SO FAR

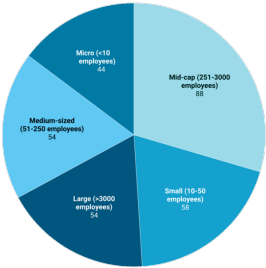
[Country distribution, members]



organisations



[Size of Organisation]



5 Technologies



LW-SMR, AMR



- EU-SMR-LFR project (Ansaldo Nucleare, SCK-CEN, ENEA, RATEN)
- CityHeat project (Calogena, Steady Energy)
- Project Quantum (Last Energy)
- European LFR AS Project (newcleo)
- Nuward (EDF)
- European BWRX-300 SMR (OSGE)
- Rolls-Royce SMR (Rolls-Royce SMR Ltd)
- NuScale VOYGR™ SMR (RoPower Nuclear S.A)
- Thorizon One project (Thorizon)

European Nuclear Society

- A Learned Nuclear Society
- A trustworthy point of reference
- An engaging, international community



Who we are

We promote the development and understanding of peaceful nuclear applications in every field:

- Energy
- Medicine
- Space exploration
- Safety
- ...



Supporting Scientific Excellence

- 22 Member Societies
- +12.000 Members

- | | | |
|---|---|--|
|  Austrian Nuclear Society |  Belgian Nuclear Society |  Bulgarian Nuclear Society |
|  Croatian Nuclear Society |  Czech Nuclear Society |  Finnish Nuclear Society |
|  French Nuclear Energy Society |  German Nuclear Society |  Hungarian Nuclear Society |
|  Israel Nuclear Society |  Italian Nuclear Association |  Lithuanian Nuclear Energy Society |
|  Netherlands Nuclear Society |  Slovak Nuclear Society |  The Nuclear Institute |
|  Serbian Nuclear Society |  Nuclear Society of Slovenia |  Polish Nuclear Society |
|  Swedish Nuclear Society |  Swiss Nuclear Society |  Spanish Nuclear Society |
| |  Ukrainian Nuclear Society | |



Supporting Scientific Excellence

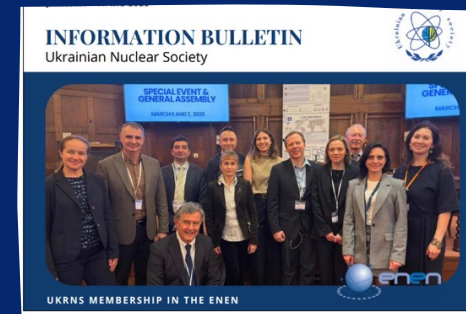
• 27 Corporate & Associate
Members supporting the
organisation



2025 Anniversaries & Activities

ENS on the European and International stages:

- Baltic Nuclear Energy Forum (Gdansk)
- 30 Years of the ENS Young Generation Network (Brussels)
- RRFM2025 (Aix-en-Provence)
 - *Symposium on Synergies Between SMR/AMR and Research Reactors*
- Ukrainian Nuclear Society's International Conference (remote)



2025 Anniversaries & Activities

- FISA/EURADWASTE '25 (Warsaw)
 - co-organiser with the European Commission, the Polish Ministry of Industry, NCBJ, SNETP, ENEN and ENS-YGN
 - Youth Day & [Youth Vision Statement: Nuclear by 2050](#)
 - Plenary Session "Empowering future generations and engaging with civil society"



Youth on Stage in Warsaw
ENS at FISA-EURADWASTE & SNETP Forum 2025

2025 Anniversaries & Activities

- **IAEA International Conference on Stakeholder Engagement for Nuclear Power Programmes** (Vienna)
- **ENYGF 2025** – European Nuclear Young Generation Forum (Zagreb), co-organised with the Croatian Nuclear Society
- **ENEN2Plus Workshops** with BSc, MSc, & secondary schools pupils (Budapest and Bologna)





2025 Anniversaries & Activities

Celebrating the ENS 50th Anniversary (Vienna)



2025 ... and beyond

What's next?

- NESTet2026 (Brussels, 2-4 March)
- RRFM2026 (Leiden, 20-24 April)
 - IRIS – *International Radioisotope Supply Chain Meeting*
 - SMaRRT – *Building bridges between SMR/AMR developers and the research reactor community*
- ... and more to come!



ENS & African nuclear communities

- Main contact point: **Nuclear for Climate**
 - Support for volunteers
 - Collaboration with the African YGN and Women in Nuclear Africa
 - Events, participations in African pavilions at COPs

- Research reactor community
 - Active participation of African representatives, especially South Africa, Morocco, Algeria...
 - Support with IAEA travel grants in several editions



Contact us



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THANK YOU

*We look forward to working
with you*

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