Nuclear Power: a cornerstone of Europe's net zero Journey

Antoine GUELFI

Head of Business Development

EDF international nuclear development

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Decarbonize and electrify : the time to act is now

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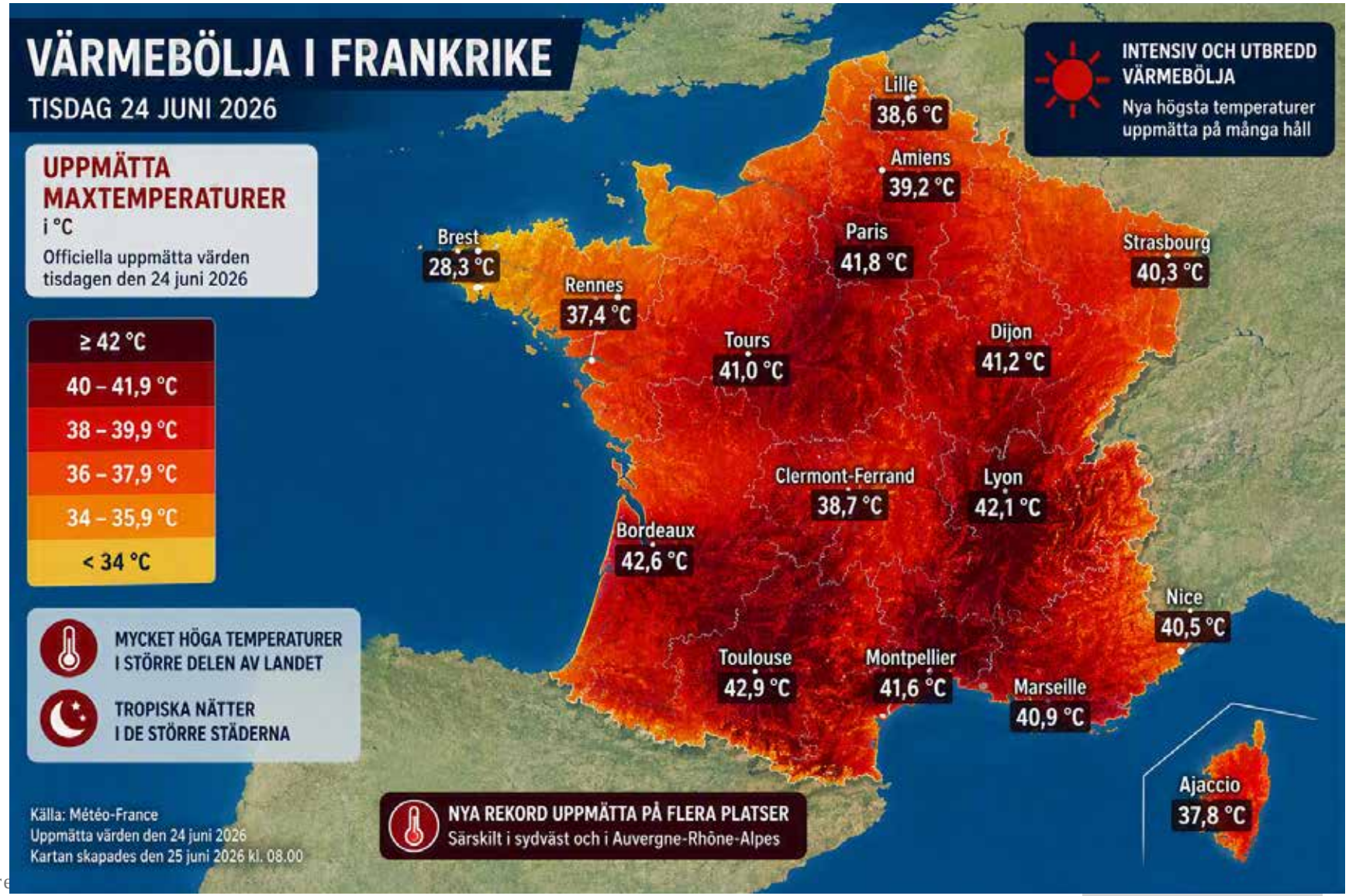
Summer 2026 : facing the consequences of global warming and choices of energy choices



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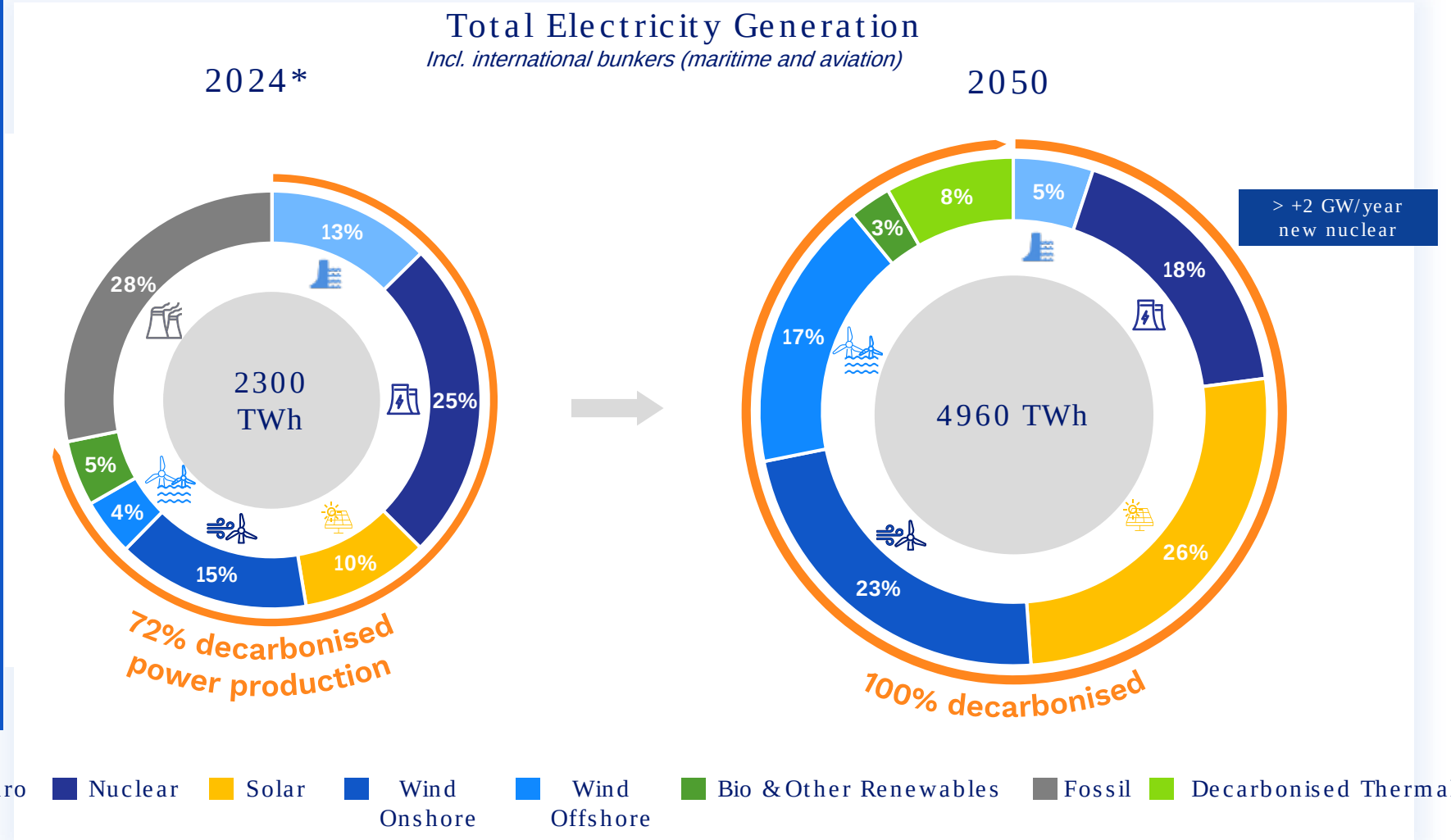
European Decarbonised Electricity Generation Target

EDF's Net Zero Scenario 2050

- Achieving Net Zero requires mobilising all decarbonised technologies to **meet growing electricity demand** .
- A resilient and cost-efficient power mix combines nuclear energy, variable RES, short term flexibility and dispatchable assets - such as hydropower and decarbonised thermal generation (efuels and/or CCUS) - to safeguard **security of supply** .
- This can only be achieved with **massive investments in networks upgrade**
- It is expected to **mobilize the EU supply chain at scale** , requiring **substantial investment to upgrade Europe's industrial capabilities**



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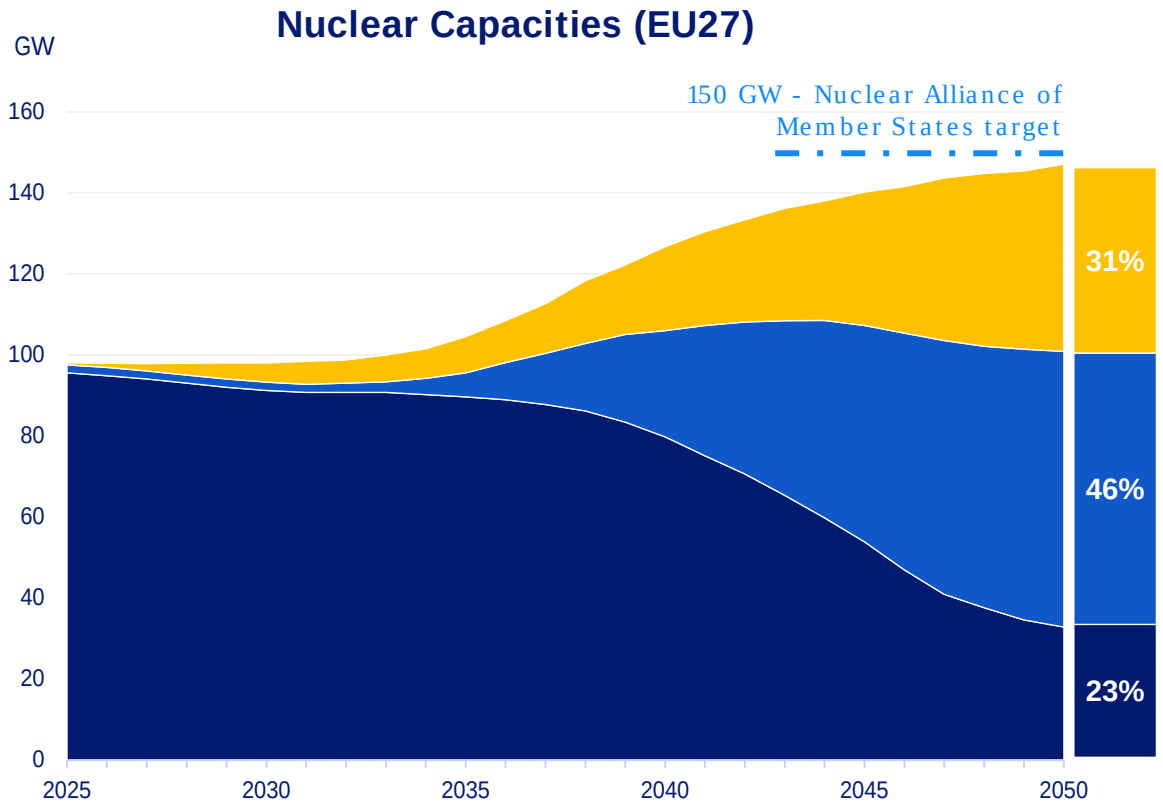
Net ZERO Scenario 2050

Road to 150 GW Nuclear Capacity in Europe



Long-Term Operation of existing fleet (> 60 years) + New nuclear programs

Already announced new nuclear builds – Large Nuclear Units and SMR

Existing Nuclear fleet – up to 60 years old

- New builds and Long-Term Operation will account for 77% of nuclear capacity by 2050 and should be backed as an industrial priority.
- Investing in nuclear strengthens European industry, creates skilled local jobs, and reinforces Europe's energy independence.
- As a decarbonised, energy-dense and dispatchable technology, nuclear is central to the EU's net-zero ambitions.
- It provides flexibility and essential system services (inertia, frequency stability, voltage regulation), lowering system costs and, ultimately, consumer bills.

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EDF commitment to provide low-carbon solutions

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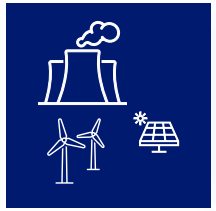
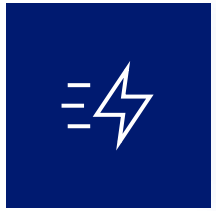
EDF Is Europe's Leading Integrated Low Carbon Energy Solution Provider



EDF is a leading European low-carbon electricity producer, with a diversified portfolio of technologies including dispatchable hydropower, solar, wind, and nuclear energy.

We position ourselves as a partner of choice to support European countries in achieving its carbon-neutrality goals with affordable power, by sharing our technologies, our expertise in managing large-scale projects, and our operational know-how across Europe.



Our European industrial ecosystem, covering the entire value chain of low-carbon energy production and storage, can play a critical role in securing high European content whilst reinforcing hosting countries broader energy security requirements.

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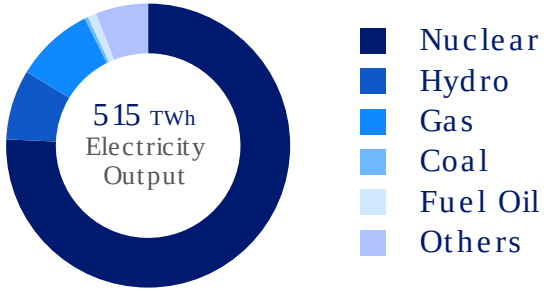
EDF is a leading European utility for low carbon energy production, operation and distribution

EDF's business covers all electricity-related activities

- Electricity Generation
- Transmission & Distribution
- Energy Supply
- Optimisation & Trading

EDF Electricity Output in 2025



€113.3 bn
Sales in 2025

515 TWh
Electricity generated worldwide

373 TWh
Nuclear electricity generated in France in 2025

Build a net zero energy future with electricity and innovative solutions and services, to help save the planet & drive well-being and economic development.

More ambitious goals in 2030 to reduce our CO_2 emissions

- ↘ **70%** Direct emissions compared to 2017
- ↘ **35%** Indirect emissions compared to 2019

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EDF, First Low-carbon Electricity Exporter in Europe

France was the primary European electricity exporter in 2025, with 92,3 TWh net exports

- **~70%** of French total electricity production came from nuclear power in 2025
- Nuclear power procure the ability to meet the fluctuating demands of the market thanks to its manoeuvrability
- Interconnections contribute to flexibility and optimised operation of the European power system
- French nuclear is a backbone of the CO2-free EU grid, contributing to security of supply and grid stability

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Building on a high-performing fleet of nuclear reactors

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EDF nuclear at a glance

95%
of electricity produced by EDF is **CO2- Free** in 2025

66
reactors
in operation in the world

+2,300
reactor - years
of experience

+50,000
engineers and technicians
working in the nuclear field

€752M
invested
in R&D in 2024

The EPR technology is proven, reliable and adapted European nuclear ambitions

Safety by Design – Engineered to meet and exceed European safety and operational regulatory requirements, ensuring the highest levels of protection for people and the environment.

Grid - Ready for Europe – Fully adapted to European grid requirements, frequency, delivering stable, high-capacity power output.

More Power, Less Waste – Large-scale reactors maximise output while using less land and fewer materials and generate less nuclear waste per unit of electricity over their lifecycle.

World - Class Steam Supply & Turbine Efficiency – The most efficient steam and turbine systems on the market, optimising performance and reducing operational costs.

Mature and Proven Technology in Europe – Backed by over 60 years of European nuclear industry experience in licensing, building and operating large-scale reactors worldwide.

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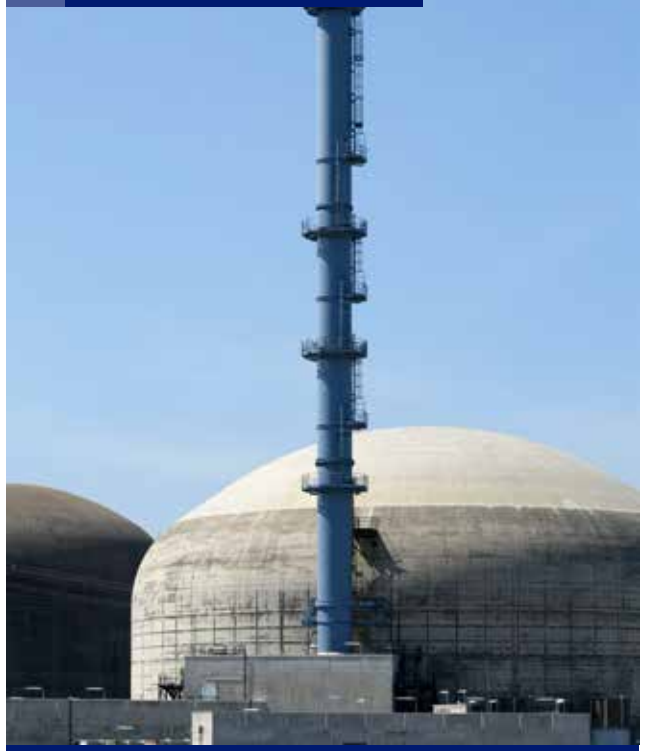
EPR fleet deployment worldwide

The most efficient and safety - proven reactor design, licensed by four recognised safety authorities

EPR FLAMANVILLE 3



FRANCE — in operation

EPR TAISHAN — 2 units

CHINA — Commercial operation in 2018 & 2019

EPR OLKILUOTO 3 — 1 unit

FINLAND — Commercial operation in 2023

EPR HINKLEY POINT C — 1 unit

UK — Commercial operation due for 2029

EPR SIZEWELL C — 2 units

UK — Final Investment Decision and Construction launch in 2025

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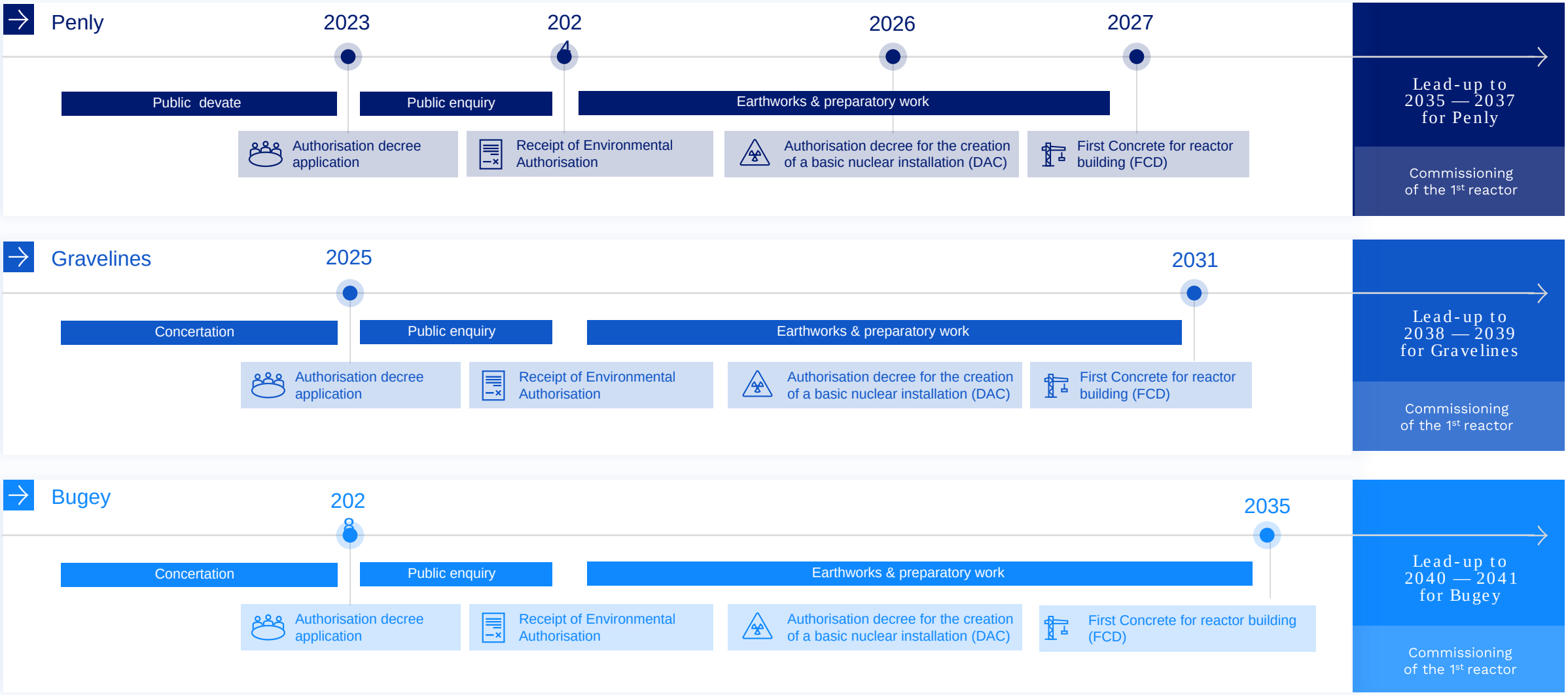
Focus on the French new nuclear programme

Strategic roadmap initiated for the deployment of 6 new reactors



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Supporting nuclear renaissance in Europe

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Nuclear is back in Europe

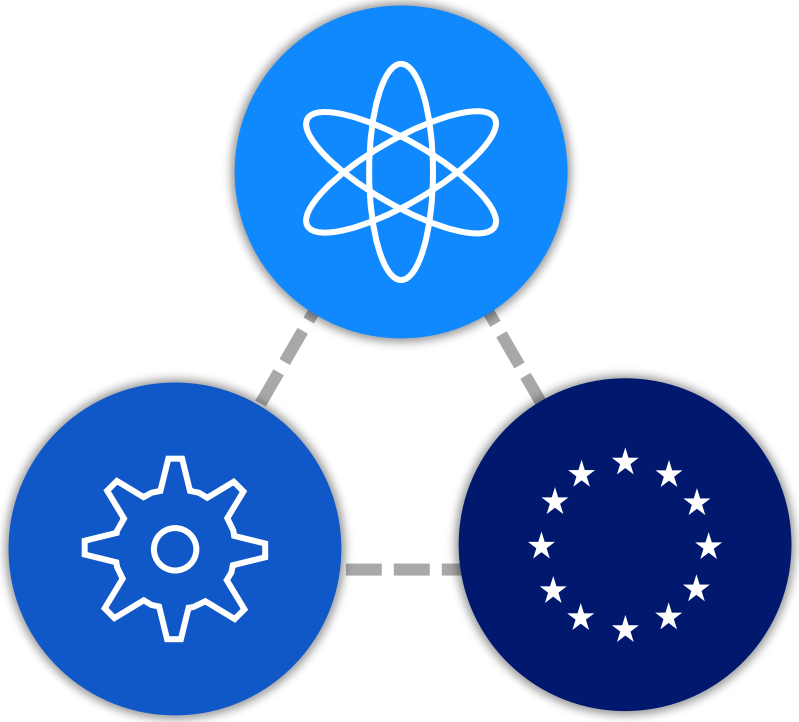
Joining forces with like-minded European Partners in deploying safe, reliable and sovereign European nuclear technology

Sovereign & Independent Nuclear Technology, 100% Made in Europe

EDF is proposing fully homegrown European nuclear technology, ensuring our allies obtain unhindered access to nuclear technology, fuel and resources for the full lifecycle of the plants we deliver.

Commun European Supply Chain

A full European approach in localising industrial capacity and human resources and coordinating resource management to drive down costs and timelines in nuclear project delivery.



Shared European Advantages

Leveraging the advantages of Europe's single market, aligned standards-codes-norms, and political unity to fast-track project delivery, technological alignment and access to financing.

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EDF Group and the French nuclear industry: a multi disciplinary experience

- Engineering
- Reactor Design
- Construction
- Commissioning
- Support to Operation
- Long-Term Operation
- Training
- Decommissioning

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EDF's Value Proposition

A tailor-made proposition to meet your ambitions

- State-of-the-art GEN 3+ Technologies
- Unrivalled New Build and Operating Experience
- Integrated Engineering & Industrial Capacities

EDF Key Assets

- Industrial Cooperation & Localisation
- Training & Skills Development
- Long Term Partnership Approach

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