



From Large-Scale EPR Projects to Small Modular Reactors: Ingerop is at the Heart of Tomorrow's Nuclear Engineering

On the occasion of the World Nuclear Exhibition, the Ingerop Group reaffirmed its position as a major player in engineering for energy transition projects and presented three of its ongoing assignments.

Rueil-Malmaison, 13 November 2025 – As the World Nuclear Exhibition (WNE) has just drawn to a close, Ingerop — demonstrating its expertise in the design and construction supervision of nuclear facilities of all sizes — has signed two major contracts with Otrera and Eiffage.

Ingerop: A Key Player in Nuclear Engineering

Whether for EPRs, Small Modular Reactors (SMRs) or facilities related to the industry (research, fuel cycle, waste management, etc.), Ingerop supports its clients throughout the entire project lifecycle: feasibility studies, environmental and impact assessments, detailed design, client consulting services, supervision of construction, testing and commissioning. The Ingerop Group combines methodology, rigour, innovation, technical expertise and safety assurance to guarantee the performance and regulatory compliance of these installations. The ISO 19443 certification obtained by our nuclear teams since 2022, and more recently by our Scientific Calculation Department in Rueil-Malmaison, reflects this commitment.

Ingerop's Expertise Supporting the French State's EPR2 Plan

With its EPR2 plan, France is entering a new era for civil nuclear power. The plan aims to build six new reactors — with eight more as an option — across three sites in France: Penly (Seine-Maritime), Gravelines (Nord) and Bugey (Ain).

Less expensive and faster to build and commission, these EPR2 reactors are designed to improve the performance and safety of existing reactors while accelerating the revival of the national nuclear fleet.

In this context, Ingerop and its subsidiaries — including Actierra, a specialist in ecological issues and biodiversity protection — are supporting the design and construction of the facilities associated with these new reactors. More than 100 engineers and technicians from the Group's nuclear infrastructure teams will be mobilised.

Design and Replication of the Operational Operating Hub (POE) for the EPR2 Reactors at Penly, Gravelines and Bugey

Under two separate contracts, Ingerop will provide project management for the HBO building of the EPR2 programme:

1. A design–build contract signed with Eiffage Construction Normandie, in partnership with the architectural firm ATAUB, for the Penly POE.
2. A project management contract for the POEs at Gravelines and Bugey, on behalf of EDF.

The 26,000 m² Operational Operating Hub will comprise eight levels, including two underground floors and will be replicated identically across the three sites.

These structures meet stringent requirements in terms of safety, durability and comfort, incorporating vibration-control solutions, noise-mitigation measures and environmentally considerate features.

Although the first building will serve as a reference, replicating it across the other sites requires adaptation to local conditions — mountainous, coastal, etc. — while maintaining an exceptional standard of safety and environmental performance. Ingerop's expertise in soil analysis and resilient infrastructure design in relation to local climatic and geotechnical conditions is a major asset, as is its ability to provide tailored, close-support engineering.



ATAUB Architectes



Left to right: François Lauprêtre, Energy business line Director of Ingerop, and Xavier Mony, General manager of Eiffage Génie Civil (Civil Engineering).

*HBO : name of the building

Ingerop Supports the Next Generation of Nuclear Reactors: The Case of Otrera

Founded in 2023 and supported by Bpifrance, Otrera — originating from the CEA — is a pioneer in next-generation reactors for a sustainable energy future. The start-up has entrusted Ingerop with feasibility and siting studies for its first reactor, with a capacity ranging between 200 and 300 megawatts.



Otrera New Energy

Janio Daza, Director within the Civil Engineering Department specialising in nuclear civil engineering at Ingerop, explains: *“For this type of project, the stakes are high: enabling the company to obtain its authorisations from the very first application. This is vital given the high cost of the process for young companies. In a market where small reactors are not yet fully standardised and where each project starts from a blank sheet without the detailed frameworks that exist for large reactors, our mission is to act as a trusted partner combining regulatory rigour, agility and adherence to schedule and cost.”*

Frédéric Varaine, Chairman of Otrera, adds: “Ingerop brings Otrera its unique experience as an independent nuclear engineering player, its ability to interpret requirements into design solutions and to integrate regulatory and construction constraints from the outset. This is a decisive advantage in accelerating the realisation of such an innovative project.”

The collaboration between Ingerop and Otrera began in the summer of 2025 and was formalised at the WNE exhibition on Ingérop’s stand on 4 November.



Left to right: Frédéric Varaine, president of Otrera and Yves Metz, president of Ingerop

Other Major National and International References Supporting an Innovative and Sustainable Nuclear Industry

Among its major references in the nuclear sector, Ingerop has contributed to emblematic projects such as the design of the deep geological repository CIGEO for ANDRA in Bure, the ICEDA facility for EDF in Bugey, ASTEL for the CEA in Marcoule, the construction of numerous facilities for the CEA DAM, the PASTEL project for Orano in Tricastin, the construction of the EPRs at Hinkley Point C and Sizewell C in the United Kingdom, as well as newcleo’s AMR reactor and its associated MOX fuel manufacturing plant.

About Ingerop

Based in Rueil-Malmaison, Ingerop is an engineering and consultancy group working on major challenges to build tomorrow's world today: sustainable mobility, energy transition and quality of life. The Group has earned a strong reputation across all construction sectors: building, water, energy, industry, infrastructure & mobility, transport and urban development. Its experienced teams offer high-level technical support, covering all phases of projects and construction works. A benchmark in France, Ingérop also has a strong and growing international presence. The Group continues to expand steadily, relying on its shareholder independence, technical expertise, capacity for innovation and close relationships with its clients.

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