



NIA International Group Opportunities for the UK Supply Chain Globally

Ansaldo Nucleare in Europe

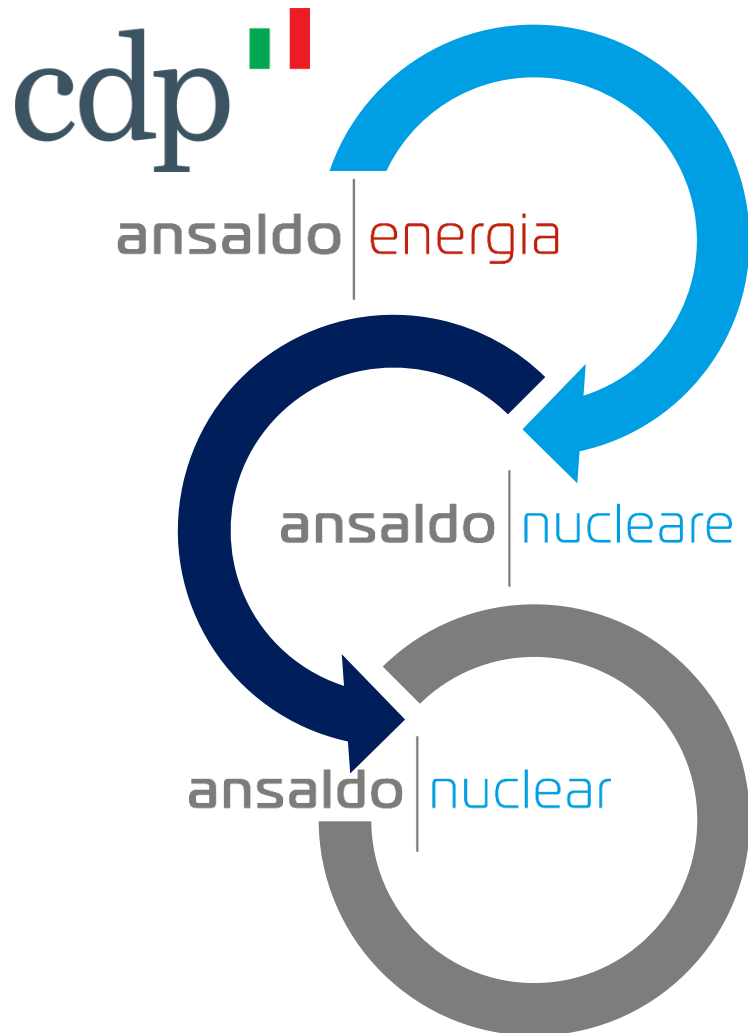
*Thursday 8 October 2026, Stephenson Harwood, 1 Finsbury
Circus, London EC2M 7SH*

ansaldo | nucleare
A company of Ansaldo Energia



Fit for transition

Our Structure



Ansaldo Energia Group, owned by Cassa Depositi e Prestiti, is an international leader in the field of power generation (gas turbines, steam turbines, generators, turnkey plants, service solutions).



Ansaldo Nucleare is fully dedicated to the Nuclear Industry and to the Sustainability of the Nuclear Option



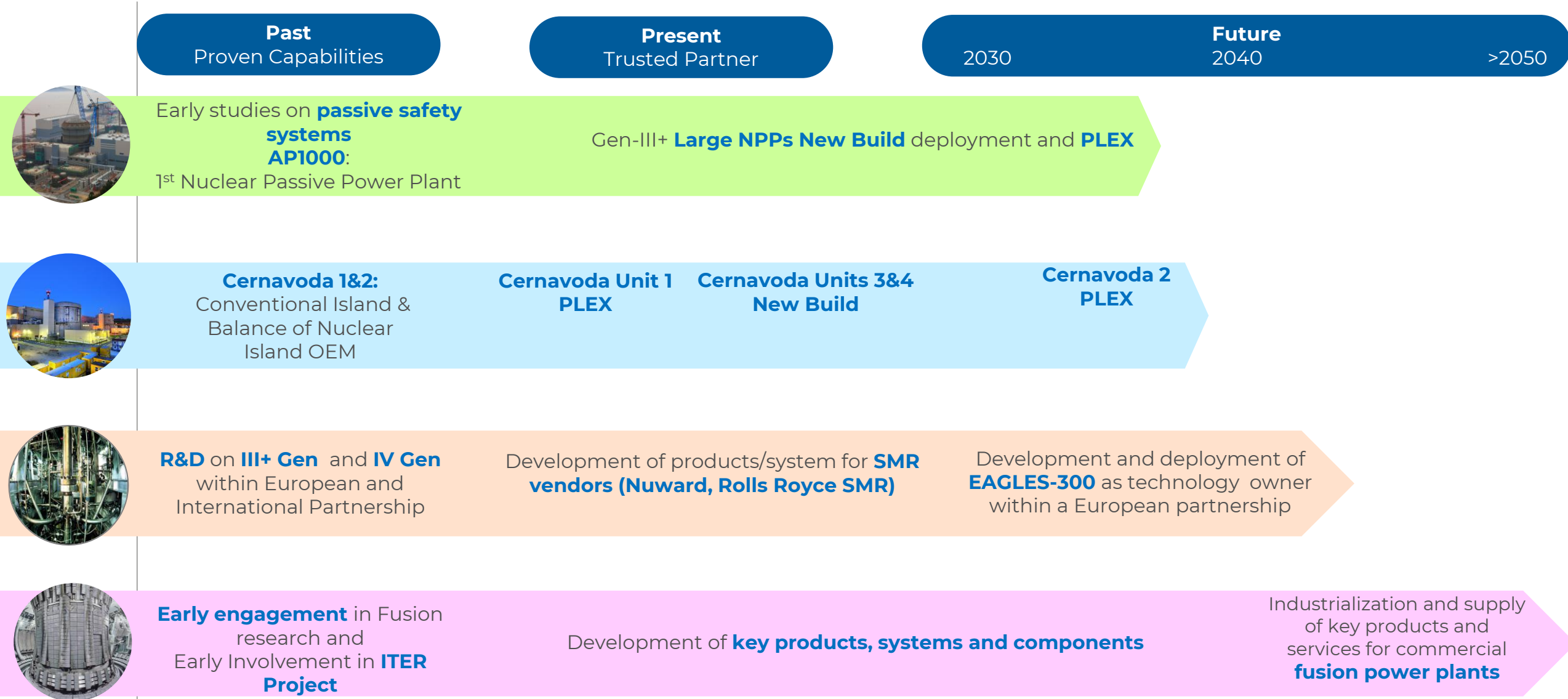
Ansaldo Nucleare S.p.A. and its subsidiary Ansaldo Nuclear Ltd (UK) operate together as a “one-stop shop” specializing in nuclear power.

Our History



Our history and references allow us to play across the whole nuclear sector

Ansaldo Nucleare: Delivering the European Nuclear Programme



A Trusted Partner to the UK Nuclear Supply Chain

Ansaldo Nuclear Ltd

- **70 years** of services to nuclear sector, early entrant
- **Engineering & In-house Manufacturing**
- Specialist equipment provider
- Services UK Civil and Defense Nuclear
- Clients: AWE, UK MoD, Rolls-Royce Submarines, Sellafield Ltd, Nuclear Restoration Services (NRS), EDF Energy, Rolls-Royce SMR and UKAEA
- **OEM to all UK NPPs to date**



Significant projects/products

- Sellafield B38 silos emptying machines
- Heat exchangers OEM to UK subs
- Special Nuclear Doors (AWE, Barrow, ESS, ..)
- OEM for Flask Leak Test Equip (Magnox, EDF)
- Nuclear Gloveboxes (Sellafield SRP, AWE)
- Handling Tools (MoD)

Ansaldo Nucleare's contribution to Romania's Nuclear Programme

Ansaldo Nucleare has maintained a strong presence in Romania for over 40 years, having served as the **original designer of the Conventional Island and Balance of Nuclear Island for Cernavoda Units 1 and 2.**

In December 2024, Ansaldo Nucleare, together with Candu Energy Inc. and KHNP, was awarded the EPC contract for the retubing and refurbishment of Cernavoda Unit 1 (C1 PLEX).

Additionally, **Ansaldo Nucleare**, in partnership with Candu, Fluor and Sargent&Lundy **secured the EPCM Contract for Unit 3&4 of Cernavoda.**



Supporting Nuclear Safety and Plant Life Extension in Slovenia

Over the past decade, ANN has maintained a strong presence in Slovenia, playing a key role in supporting the implementation of NEK Safety Upgrade Program.

Three project were successfully completed.

- **KRSKO BB2:** EPC contract for the construction of a seismically and aircraft-impact protected Bunkered Building, the supply and installation of the Alternate Safety Injection (ASI) and Alternate Auxiliary Feedwater (AAF) systems.
- **NEK Waste Gas Compressor and Water Treatment System Replacement/Upgrade Projects:** turnkey replacement/upgrade of the Waste Gas Compressor Packages GHAPCP01 and GHAPCP02 and the water treatment system with installation of a new DCS.
- In February 2026, NEK also awarded Ansaldo Nucleare **a new contract for the revamping of the plant's Fire Protection System**, scheduled for completion in 2027.



Ansaldo Nucleare's Role in International SMR Programmes



nuward

- 2023 – Signature of the first collaboration agreement with EDF and NUWARD to assess industrial participation opportunities in the NUWARD SMR programme.
- 2025 – Renewal of collaboration between Ansaldo Energia, Ansaldo Nucleare and NUWARD, alongside Framatome, Tractebel and Arabelle Solutions, to accelerate NUWARD development and deployment.
- 2026 – Industrial cooperation expanded through the Italian-French declaration of intent involving Edison, EDF, NUWARD, Ansaldo Energia and Ansaldo Nucleare, targeting the future deployment of European SMRs.



Strategic collaboration to support the development, industrialization and future deployment of the NUWARD SMR, leveraging Ansaldo Nucleare's engineering expertise and the capabilities of the Italian nuclear supply chain.



SMR

- Support to the development of an experimental integral testing facility at SIET, including engineering coordination and procurement support for key equipment.
- Engineering studies and feasibility assessments related to advanced containment solutions for SMR applications.
- Preliminary design and integration activities for selected reactor auxiliary systems.
- Technical contributions to design maturation and readiness assessments supporting future deployment objectives.



Strategic engineering collaboration supporting the development and deployment readiness of the Rolls-Royce SMR programme, building on complementary capabilities and long-standing nuclear expertise.

EAGLES-300

Lead-cooled Fast Reactor - Innovative with high readiness

 **300 MWe size**
Aimed at replacing fossil-fired power plants

 **72+ hours passive safety**
Boosting public acceptance

 **520°C outlet temperature**
For steam delivery and other molecules

 **100% Sustainable**
Closed MOX cycle for waste minimization

In 2024, EAGLES-300* was selected as a leading project within the European Industrial Alliance on SMRs.

*then named EU-SMR-LFR project

1 2000-2020

Distributed large experimental infrastructure

2 **2034**   Mol, SCK CEN
LEANDREA – Irradiation reactor

3 **2037**   Pitesti, RATEN
ALFRED – Pilot plant

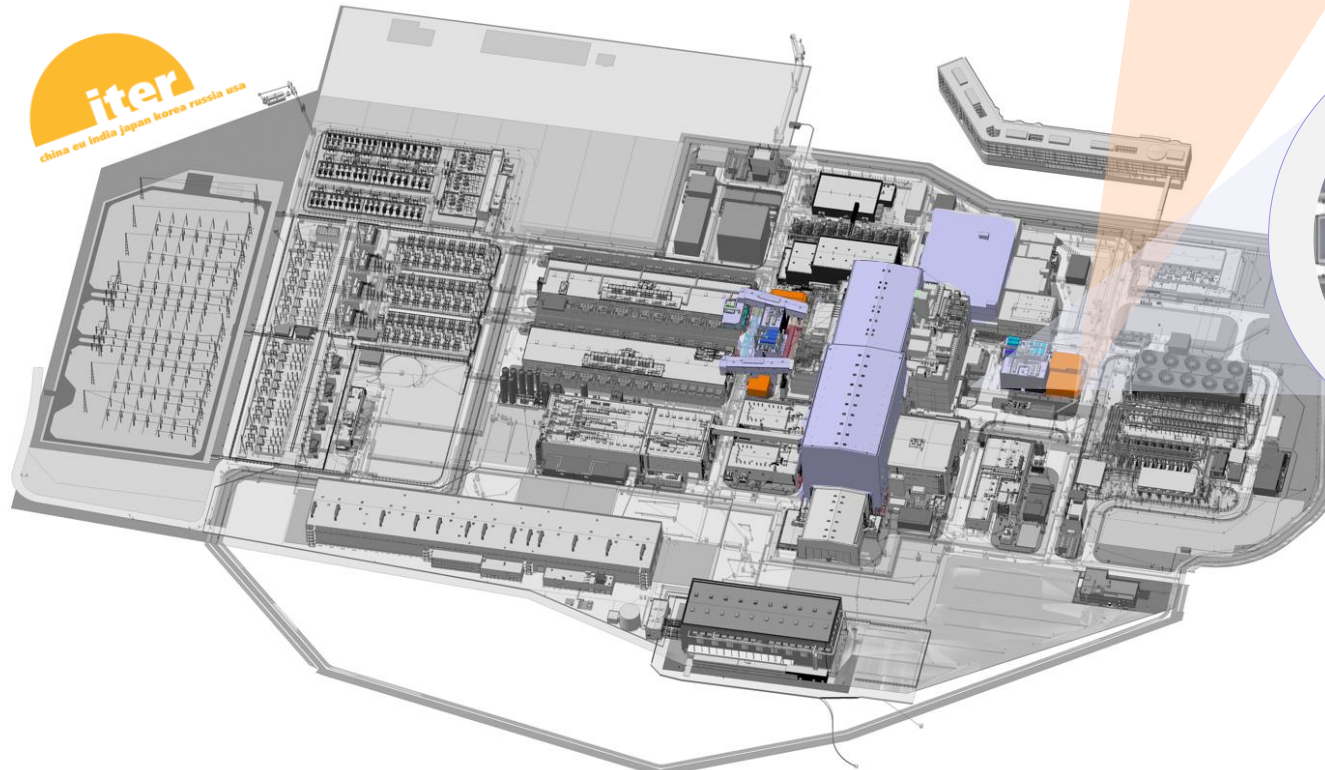
4 **2039**   Standard site
EAGLES-300 deployment

Blend of industrial know-how & deep liquid-metal expertise, driving both scientific innovation and commercial viability. A proven, reliable Consortium with decades of experience in major nuclear projects, combining research excellence with industrial success to deliver competitive, robust and feasible latest-generation nuclear technology.



EAGLES signature ceremony in Luxembourg, June 2025

Fusion projects: an overview



OTHER INITIATIVES



Divertor Tokamak Test (DTT)
Engineering services



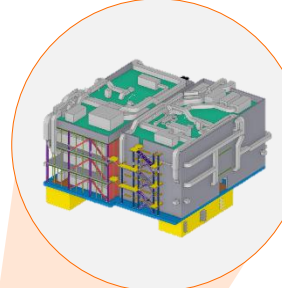
DEMO
Plant conceptual design



IFMIF-DONES
Services of expert industrial competences



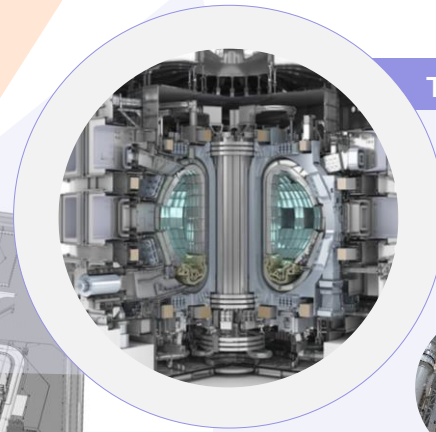
GO4FUSION
Groundwork for a EU fusion PPP



STEADY STATE EMERGENCY ELECTRICAL DISTRIBUTION SYSTEMS (TB13) - Ongoing

CAM (ANN 70%)

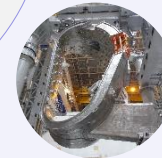
EPC of the Steady State Emergency Electrical Distribution systems and of the buildings, and supporting systems, that house them



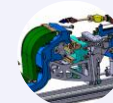
TOKAMAK BUILDING



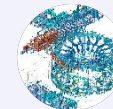
Vacuum Vessel – COMPLETD 5/5
AMW (ANN leader)
Supply of 5 Vacuum Vessel sectors



VVBR | SIMANN (ANN 30%) - Ongoing
Repair of the bevels on vacuum vessel sectors



Remote handling - Ongoing
ANN sole contractor
Engineering support services and supply



Tokamak Cooling Water System (TCWS) - Ongoing
ANN sole contractor
Design and calculation of TCWS piping and supports



IVT Prototype (Divertor)
ANN sole contractor
Engineering activities & manufacturing

Europe's final ITER Vacuum Vessel sector delivered

Ansaldo Nucleare led the consortium formed by Ansaldo Nucleare, Westinghouse Electric Company and Walter Tosto, combining nuclear engineering, reactor technology and manufacturing expertise to support the Delivery of 5 ITER vacuum vessel sectors to the Cadarache site in France.



The five European sectors required more than 2 million manufacturing hours and approximately 750 km of welds. Segment fabrication was performed at the Westinghouse facility in Monfalcone and at Walter Tosto in Chieti, followed by assembly, final welding and transport to the ITER site.

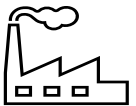
Italy is Establishing the Framework for New Nuclear Deployment

The inclusion of nuclear energy in Italy's long-term energy strategy, together with the approval of the enabling legislation, marks a significant step towards the reintroduction of nuclear power in the country.



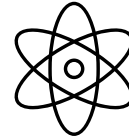
PNIEC

- Nuclear energy included in Italy's long-term energy strategy.
- Scenario envisaging **~8 GW of installed nuclear capacity by 2050**.
- Contribution of approximately **11% of national electricity demand**.
- Complementary role alongside renewable energy sources to support decarbonization and security of supply.



Industrial Opportunity

- Strong manufacturing and engineering heritage
- Rebuilding nuclear competencies across the value chain
- Opportunities for international partnerships and supply chain development



Nuclear Enabling Law

- **23 September 2026 – Italian Nuclear Enabling Law approved by Parliament**
- Establishment of a national framework for the deployment of a new national nuclear program and of advanced nuclear technologies.
- Definition of governance, licensing and institutional responsibilities.



Energy & Industrial Drivers

- Growing electricity demand and electrification
- Energy security and reduced fossil dependency
- Competitive low-carbon energy for industry

Building the Future of Nuclear Together

- Europe is creating the conditions for a new era of nuclear investment.
- International cooperation is accelerating technology deployment and risk reduction.
- Ansaldo Nucleare is ready to contribute as a reliable engineering and industrial partner.
- Together, we can build the partnerships needed to deliver the next generation of nuclear projects.





Thank you for your attention

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