

Webinar

GIF talks with industry series #6

LFR Developers: Ansaldo Nucleare

Hosted by the GIF LFR provisional SSC

Join us on October 23, 2025, 14:30 CEST (UTC+2)

EAGLES-300: European Advanced Gen-IV Lead-cooled Energy System

Join us for a GIF hosted webinar to explore the development of EAGLES-300 through the European international collaboration, by Ansaldo Nucleare, as leader of the EAGLES Consortium.

The EAGLES-300 project represents a significant leap forward in European nuclear innovation, introducing a latest-generation SMR based on lead-cooled fast reactor (LFR) technology. Designed to deliver clean, safe, and sustainable energy, EAGLES-300 will provide reliable electricity, industrial heat, and hydrogen production. With a capacity of approximately 350 MWe, its modular architecture enables rapid, flexible, and cost-effective deployment, making it suitable for matching the decarbonization goals. EAGLES-300 is driven by a robust European consortium (ENEA - Italy, RATEN - Romania, SCK CEN - Belgium) that blends industrial expertise with deep knowledge of liquid-metal technologies.

EAGLES-300 has gathered significant public commitments from Belgium, Romania, and Italy, as well as support from Euratom R&D. Investments are directed toward qualification of technological options through the development of experimental infrastructure, including the largest pool-type facility in the EU. The project roadmap outlines key milestones: the signing of the consortium agreement and the start of pre-licensing processes in 2025, the construction of experimental infrastructures through 2030, and the deployment of demonstrator and pilot plants (LEANDREA in Belgium and ALFRED in Romania) leading up to commercial deployment by 2039.

EAGLES-300 is advancing, supported by strong European partnerships, governmental and EU recognition, and a clear vision for powering Europe's clean, safe, and competitive future.

A Q&A session will follow the presentation, providing an opportunity to further understand how Ansaldo Nucleare and its partners are working to bring a Gen IV reactor to reality.

This webinar is the sixth of a series where GIF engages with industry representatives to bridge national and international R&D programs, industry needs and challenges. It is also aimed at and exploring new avenues for fruitful cooperation within the GIF community.

Dr. Mariano Tarantino from ENEA, the Euratom representative at the provisional LFR System Steering Committee (SSC), will facilitate this webinar.

Free webcast!

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Who should attend:
policymakers, industry
professionals,
regulators, researchers,
students, general public

Speaker

Dr. Michele Frignani entered Ansaldo Nucleare in 2007 and is currently Director of Nuclear Technologies and Product Development. He is now supporting the strategic plan, through the development of innovative products for the nuclear sector.

With 15+ years of experience in the nuclear field and 10+ years in coordination of innovative projects, he devoted most of his career in bridging the gap between academia and industrial sector, with a focus on the management of engineering and testing programs for advanced reactor concepts and small modular reactors.

He has a PhD in Nuclear Engineering at University of Bologna, and recently attended the Key Manager High Education program by CdP Academy. With more than 30 publications in journals, he is also invited speaker at various international events on energy and nuclear technology.

