

# Webinar

## GIF talks with industry series #1

### LFR Developers: *newcleo*

Hosted by the GIF LFR provisional SSC

Join us on June 20, 2024, 14:30 CEST (UTC+2)

## *newcleo*'s R&D Programme in support of Small Modular Lead-cooled Fast Reactor Technology Development and Deployment

Discover the developments in MOX-fueled SMR-LFRs by *newcleo*. They aim to commission a MOX production plant and a demonstrator in the early 2030s, followed by a 200MWe First-Of-A-Kind and a fleet.

*newcleo* highlights safety, simplicity, compactness, and cost competitiveness in their reactor design. These qualities are attributed to lead properties and innovative solutions, streamlining their design. Their broad R&D program supports an incremental strategy to refine technologies and address gaps.

Join us to learn more about *newcleo*'s R&D focus areas that include structural materials and coatings, primary components integrity and performance, handling systems, ISI&R and integral testing in large-scale facilities. Learn how specific R&D needs are addressed by *newcleo* through the refurbishment of existing ENEA infrastructure, and several new test facilities (e.g. CAPSULE, CORE, OTHELLO, DCI, MANUT). Challenges and successes in developing and bringing Generation IV reactor technologies to the market will be discussed as well as how organizations such as GIF can support those efforts. A Q&A session will provide you with opportunities to learn more and listen to firsthand insights on what making a Gen IV reactor a reality requires.

This webinar is the first of series where GIF will be discussing with representatives of the industry to link national and international R&D programs, industry needs and challenges, and work to identify ways for the GIF community to foster new avenues for fruitful cooperations with the industry.

Dr. Mariano Tarantino from ENEA, the co-chair of GIF LFR provisional steering committee, will facilitate this webinar.

### Speaker

**Dr. Fabio Moretti**, Nuclear Engineer with a PhD in Nuclear and Industrial Safety, is the Head of *newcleo*'s R&D Thermal Hydraulics Unit, which carries out engineering studies relevant to the design and operation of experimental test facilities, as well as in support of design and safety assessment of the LFR.

Since 2014 he has been involved (as TH/CFD/FEM analyst, team leader, project manager, etc.) in many projects dealing with nuclear fission reactor safety assessment, nuclear power plant licensing, computer code validation, design and building of test facilities, etc., both in academic R&D frameworks and under industrial contracts, always in internationally oriented environments.

He has always been looking forward to a nuclear renaissance, as a breakthrough toward a cleaner and healthier environment and a really sustainable management of the world's energy resources.

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

