



Joint IAEA-GIF Webinar on Advanced Nuclear Technologies for Maritime Applications

Virtual Event

14 May 2025

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Information Sheet

Background

Joint IAEA-GIF Webinar on Advanced Nuclear Technologies for Maritime Applications is part of the ongoing collaboration between the IAEA and GIF to promote education and training in advanced nuclear technologies. It aligns with the IAEA's commitment to supporting Member States in learning about sustainable nuclear energy systems and their diverse applications. The IAEA and GIF have already conducted several joint webinars on advanced reactor technology including “Role of Nuclear Energy in Reducing CO₂ Emissions” in April 2022, and joint GIF-IAEA webinar Regulatory Activities in support of SMRs and Advanced Reactor Systems” in May 2024. The events are organized jointly every year by the IAEA and GIF, with hosting alternating annually between two organizations. This 2025 webinar is hosted by the IAEA.

Introduction

The International Atomic Energy Agency (IAEA) and the Generation IV International Forum (GIF) are pleased to announce a joint webinar focusing on advanced nuclear technologies for maritime applications. This event aims to provide a comprehensive overview of the current status and future prospects of advanced nuclear reactor technologies in the maritime sector.

Objectives:

The objective of the Webinar is to:

- **Present the Current Status:** Offer insights into the latest developments and innovations in advanced nuclear reactor technologies tailored for maritime use.
- **Explore Potential Applications:** Discuss a range of possible uses, including floating power plants, nuclear-propelled cargo ships and icebreakers, seawater desalination, hydrogen production aboard ships or platforms, among other potential applications.
- **Examine Benefits and Challenges:** Provide an overview of advanced nuclear reactor technologies and discuss the associated benefits and challenges of their maritime applications.

We invite four experts in the field:

Ms Nadezhda Salnikova (OKBM, Russia),
Mr Kirk Sorensen (Flibe Energy, USA),
Mr Andreas Schofield (Seaborg Technologies, Denmark), and
Mr Hussam Khartabil (IAEA)

Panellists will deliver brief introductory presentations followed by Q&A session.

The webinar will be moderated by Ms Patricia Paviet (GIF) and Vladimir Kriventsev (IAEA).

The up-to-date information, presentations, and video recordings will be available at the IAE website under <https://conferences.iaea.org/e/2025-IAEA-GIF-Maritime>

Target Audience

We invite professionals, researchers, and stakeholders in the nuclear and maritime industries to join us for this informative session, which promises to be a valuable platform for knowledge exchange and discussion on the integration of advanced nuclear technologies into maritime operations.

Working Language(s)

English.

Participation and Registration

All persons wishing to participate in the event need to register through a link (provided separately).

Expenditures and Grants

No registration fee is charged to participants.

Venue

The event will be held virtually via IAEA WebEx Webinars platform at 14:30-16:30 (CET) on 14 May 2025.

Organization

Scientific Secretary

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary and correspondence on other matters related to the event to the Administrative Secretary.