

Nuclear power: electricity and beyond the grid. Data-driven insights from IAEA's Power Reactor Information System (PRIS). Hosted by the GIF Education and Training Working Group

Join us on March 27, 2025, 13:30 CET (UTC+1)

Nuclear power: electricity and beyond the grid. Data-driven insights from IAEA's Power Reactor Information System (PRIS).

This presentation focuses on the data-driven analysis of nuclear power operating experience, emphasizing the utilization of nuclear reactors beyond electricity production for non-electric applications. As a reliable, low-emission energy source, nuclear power is pivotal in achieving global CO₂ reduction targets. While decarbonizing electricity production is essential, addressing emissions from industrial and transportation sectors is equally crucial. Non-electric applications of nuclear energy, such as seawater desalination, hydrogen production, district heating, and industrial heating, offer sustainable solutions to global energy and water security challenges.

Advanced reactors are a great potential for utilization of non-electric applications, as many are specifically designed for co-generation and operate with high-temperature coolants, enabling their efficient use in a wide range of applications, such as hydrogen production, desalination, and industrial heating.

Attendees will gain insights into the data and analytical tools provided by the IAEA's Power Reactor Information System (PRIS) for evaluating the reliability and performance of current operating reactors. The presentation will showcase how non-electric applications are being utilized globally and explore opportunities for their further deployment. As the world's most comprehensive and authoritative database on nuclear power, PRIS enables benchmarking, performance improvement, and experience-sharing among Member States. It also supports effective planning and decision-making for nuclear programs.

Dr. Patricia Paviet from PNNL, USA, member of GIF ETWG will facilitate this webinar.

The GIF ETWG webinar series started in 2016 and more than 95 webinars have been streamed since then. People from more than 80 countries have attended these webinars over the years. You can learn more about [previous webinars](#) and [ETWG activities](#) on the [GIF website](#).

Speaker



Ms Marta GOSPODARCZYK

Ms. Gospodarczyk has over 20 years of experience supporting projects related to nuclear energy at the International Atomic Energy Agency and the U.S. Department of Energy (DOE).

She has worked with projects related to uranium mining, nuclear power infrastructure development, nuclear power operating experience, electricity markets, nuclear power capacity optimization and projections, nuclear power performance indicators, and spent fuel storage. She has been managing the Power Reactor Information System (PRIS) and the Country Nuclear Power Profiles (CNPP) in the IAEA's Nuclear Power Engineering Section since 2018.

She works directly with Member States to compile data on all nuclear power reactors' status and operating experience. She is responsible for nuclear power performance indicators analysis program and development of nuclear power statistical reports. While at the IAEA, she has been responsible for few IAEA annual publications including one of the most popular IAEA publications, Nuclear Reactors in the World.

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When:

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Who should attend:

policymakers, industry professionals, regulators, researchers, students, general public