

# Education and Training series

## Webinar #95

# Advances and GIF Activities in SCWR development

Hosted by the GIF Education and Training Working Group

Join us on November 26, 2024, 14:30 CEST (UTC+2)

## Advances and GIF Activities in Super-Critical Water Reactors development

This webinar will briefly summarize the most relevant research and development (R&D) carried out to support the development of the only generation IV water-cooled reactor endorsed by the Generation IV International Forum (GIF).

The coolant of the proposed reactor operates at supercritical water conditions, which allows for an increase in thermodynamic efficiency of the plant and production of higher-grade process heat.

Several collaborations have been established to support this technology under the GIF umbrella as well as through other international avenues; therefore, the development work is bolstered by a collective effort between numerous R&D institutions across Asia, Europe, and North America.

Globally, the R&D programs have been methodologically executed in phases, namely: Fundamental R&D, validation and verification of R&D results and assumptions.

The presentation will also discuss the rationale for accommodating the increased operating coolant pressure associated with supercritical conditions, alongside the advantages and challenges identified during the development of this technology. Furthermore, R&D highlights, identified knowledge gaps, conclusions, and recommendations will be presented.

Dr. Patricia Paviet from PNNL, USA, chair of GIF Education and Training Working Group (ETWG), will facilitate this webinar.

The GIF ETWG webinar series started in 2016 and more than 90 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.

**Free webcast!**

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**When:**

November 26 – 2024  
14:30 CEST (UTC+2)

**Who should attend:**

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

### Speaker

#### Mr Armando Nava

Armando Nava Dominguez has a Bachelor's degree in Energy Engineering, specialized in Nuclear Thermalhydraulics and a Master's degree in Nuclear Thermalhydraulics. He joined Canadian Nuclear Laboratories (CNL) in 2005 as a Thermalhydraulics Analyst, specializing in code development and validation of the subchannel code ASSERT-PV. He joined the Canadian Super Critical Water Reactor (SCWR) team in 2011 as part of the Generation-IV International Forum (GIF) program. He is the Canadian member and co-chair of the SCWR Thermalhydraulics and Safety Project Management Board under GIF. He is currently the chairman of the GIF SCWR System Steering Committee (SCWR SSC). At CNL, he is the Technical and Project Lead of the SCWR Gen IV project, and Head of the Advanced Reactor Technologies section. In addition, he has five years of experience in the private sector conducting deterministic and probabilistic safety analyses of nuclear power plants.

