



BUILDING EUROPEAN NUCLEAR COMPETENCE THROUGH CONTINUOUS ADVANCED AND STRUCTURED EDUCATION AND TRAINING ACTIONS



INTERNATIONAL WEBINARS IN NUCLEAR ENERGY

Friday, May 9th, 2025, at 15:00 (CET)

Idaho National Laboratory Research and Development to Enable Advanced Reactor Demonstrations and Deployment



Idaho National Laboratory (INL) plays a central role in accelerating the deployment of advanced nuclear technologies through the development of robust experimental infrastructure and strategic partnerships. This seminar will present an overview of the National Reactor Innovation Center (NRIC) and its mission to enable reactor demonstration and testing at scale. Key facilities will be discussed, including the Demonstration of Microreactor Experiments (DOVE) and the Laboratory for Operation and Testing in the United States (LOTUS), both of which provide flexible platforms for early-stage reactor systems. Recent additions to INL's experimental capabilities will be reviewed including the Molten Salt Thermophysical Examination Capability (MSTEC) and the Sample Preparation Laboratory (SPL). INL is also expanding efforts in digital engineering, including the development of nuclear reactor digital twins to support model-informed design, operation, and licensing. These capabilities illustrate INL's integral role in bridging scientific discovery with deployment-ready nuclear energy systems)

This webinar will have an estimated duration of 1 hour (40 minutes presentation and 20 minutes Q&A) and is conducted under the framework of the ENEN2+ Project.

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