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Light Water Reactor Sustainability Program Technical Integration Office

## Technical Integration Office Summary LWRS Spring Meeting



### **The Technical Integration Office**

- The LWRS Program is the primary programmatic activity that addresses the DOE-NE's priority to extend the life of the nation's existing fleet of nuclear power reactors.
- Research activities focus on expanding the role of nuclear energy to ensure a reliable and abundant source of electricity and energy to power national industry and enhance efficiency.
- Technical Integration Office (TIO) manages the LWRS Program and serves as the primary interface with industry, Laboratories, universities, regulatory organizations, and other stakeholders to achieve DOE's goals and objectives for this program.
- Accomplishments are programmatic, organizational, and facilitate the mission of the program and DOE with respect to the goals of the LWRS Program.

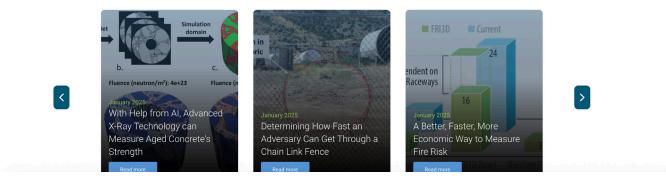




### LWRS.INL.GOV



#### **Newsletter Articles**





## **Stakeholder Engagement**

Develop critical research areas and agreements for demonstrations

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Develop approach for projects

#### +

Coordinate project development and deploy results across industry

MOUs with NRC and EPRI









#### Overview and Accomplishments – 2023

#### Light Water Reactor Sustainability Program



### U.S. DEPARTMENT OF

https://lwrs.inl.gov/content/uploads/11/2024/10/LWRS\_Program\_ Overview\_Accomplishments\_2023.pdf



### **Summary**

- Collaborations with industry facilitate progress and exchange in areas of vital common interest
  - Materials, Modernization, Risk-Informed Research, Diversification of Products, Physical Security
- Need for reliable and abundant energy from nuclear power underscore the need to expand and enhance efficiency of operating fleet
  - LWRS research addresses highest priority issues to achieve near-term outcomes
- Projects follow timelines to impact economic competitiveness and long-term operation
  - Develop the means to expand capacity and support buildout of nuclear energy using experience and infrastructure of the existing fleet.
  - Address critical needs in aging and obsolescence
  - Demonstrate the means to substantially reduce the costs of ownership
  - Lead transformation from a labor-centric to technology-centric business model



# **Sustaining National Nuclear Assets**

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