



The Frontiers Initiative

The United States is at the forefront of a new frontier of global economic competition. How we adapt, engage and respond will have a marked impact on U.S. economic resilience and national security for decades.

This new frontier is precipitated by major competitive and geopolitical shifts brought about by intersecting challenges of climate change and the drive for lower emission economic activity, alongside growing great-power competition for resources, influence and economic control in key parts of the world.

In this environment, economies that can manufacture with less emissions are placed at a competitive advantage. This reshapes global economic leadership and is a competition the U.S. must lead in and win.

Energy is a key input to this competitive equation. Those that can deploy low-emission, reliable energy in a form that meets the complex and diverse needs of industry will be ahead. And that's where advanced nuclear energy – large and small reactors – can provide a crucial competitive edge for U.S. leadership.

To help advance this leadership position, Idaho National Laboratory organized the Frontiers Initiative and associated

Frontiers Consortium of like-minded collaborators, which seek to advance low-emission economic activity, economic development and national security influence. A key foundation of the initiative is to help first-movers in advanced nuclear energy deployment and their stakeholders leverage their early adoption to strategic advantage for economic development. As such, the initiative works with private sector energy users, advanced reactor providers, state regulatory and policy officials, and universities to catalyze powerful partnerships and help develop leadership-class capacity to deploy and lead in the new frontier of economic competition.

PURPOSE:

The Frontiers Initiative provides resources, tools, and partnerships to help identify and capitalize on key opportunities for economic development afforded by early adoption of advanced nuclear energy. Specifically, the initiative helps those involved:

- Identify economic opportunities associated with reactor deployment, including industrial heat and power opportunities, remote applications, other non-traditional applications of nuclear energy and novel business models for deployment for those applications.

- Collaborate on capacity building needs involving academia and state and local officials.
- Provide public and energy end-users with information about nuclear energy technologies and opportunities.
- Garner global recognition, brand and, ultimately, market share for collaborators.

For more information about Frontiers, visit <https://ema.inl.gov/frontiers/>

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Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy.

