



GNI Proposals & Next Steps

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The Global Nexus Initiative



Opportunity and Proposals

- As GNI enters into its next phase, it will build on the strong foundation of international and multi-disciplinary collaboration that it has created and continue to **unite the nuclear policy community, the nuclear industry, and climate change and energy policy experts** in an unprecedented and powerful collaboration.
- There is an opportunity to use the **unique positioning** of GNI and its nexus of core issues to produce:
 1. A **yearly report** on the developments at the intersection of nuclear power, climate change, and global security.
 2. An Annual GNI policy **leadership forum**.
 3. Collaborate on **events and analyses** with partners and supporters.

The Global Nexus Annual Report

*“Yearly Developments
at the Intersection of
Nuclear Power,
Climate Change and
Global Security”*





The Global Nexus Report:

“Yearly Developments at the Intersection of Nuclear Power, Climate Change and Global Security”

Report Content (25-30 pages)

Climate Change Issues

- Major developments in emissions globally and in key countries
- Major legislative and political developments related to curbing carbon emissions (domestic and international)
- Technological advances in curbing carbon
- Major regions facing impacts of climate change

Nuclear Power Issues

- Nuclear power contribution to emissions reductions/limited growth
- Technological advances in nuclear power (SMRs and advanced reactors)
- Impacts of disruptive emerging technologies on nuclear power operations
- Status of existing nuclear fleet
- LWR deployments, retirements, and related developments

Global Security Issues

- Report on reactor exports, new builds, and MOUs by country
- Measuring the geopolitical importance of new agreements and deployments
- Developments in nuclear non-proliferation, safeguards, security, and safety
- Domestic (U.S.) nuclear national security developments and impacts
- New challenges and opportunities in nuclear commerce





The Global Nexus Report:

“Yearly Developments at the Intersection of Nuclear Power, Climate Change and Global Security”

Value

- **Develop** a compendium of information that would be useful in advancing policy objectives in the key issue areas.
- **Elevate** the GNI brand and that of its partners as the document could become a yearly benchmark that is of interest to policy makers, the international media, and policy analysts.
- **Serve** as an underpinning of the Leadership event and identification of issues that can be explored in GNI workshops during the year.
- **Provide** opportunities for regular engagement with the GNI Working Group and partners/sponsors.
- **Use** Odgis & Co. design to make content accessible.
- **Drive** media attention, reporting, and education.



Nuclear Innovation and International Leadership Forum

*An Annual Meeting
to Institutionalize
Nuclear-Climate-
Security Policy
Development and
Cooperation*





Nuclear Innovation and International Leadership Forum

Purpose and Objectives

- **Strengthen and sustain** relationships and coordination among key senior-level and expert-level multi-disciplinary, international stakeholders over the long term.
- **Support** the creation of new collaborations, leaders, networks, and initiatives.
- **Provide** a collective and collegial policy discussion platform that covers the multidisciplinary challenges and opportunities presented by existing and future nuclear trends.
- **Identify** the policy and collective actions necessary to ensure the continued deployment of nuclear technology to support global security, climate change, and clean energy requirements.





Nuclear Innovation and International Leadership Forum

Key Themes

Climate: The role of nuclear power in meeting global climate and low carbon energy objectives. And the implications of nuclear power contraction.

Governance: The nuclear governance system, including regulation, security, safeguards and nonproliferation, and responses to related international needs, challenges, and opportunities.

Geopolitics: Trends in nuclear power development and deployment, the evolution of nuclear suppliers, the needs of newcomer nuclear nations, and the implications for global security and international influence.

Technology: Next generation reactors, and on emerging, disruptive technologies (cyber, AI, materials, etc.) and their intersection with nuclear technology and operations. This category also can include fuel cycle and spent fuel issues.



Nuclear Innovation and International Leadership Forum

Logistics

The forum can be 1-2 days. The participants should include leaders, experts, and organizations that are committed to effectively addressing role of nuclear technology in relation to existing and emerging realities of the 21st Century.

Financing

~\$200,000-\$300,000. Financial and branding sponsorship can be a source of revenue. There could be a modest registration fee. Governments could contribute to the financing of the event. Philanthropic foundations and nuclear industry institutions may provide some funding.

Ottawa Workshop Collaboration

*“The Geo-
Strategic Value of
Next-Generation
Nuclear Power”*





Workshop Collaboration:

*The Geo-Strategic
Value of Next-
Generation Nuclear
Power**

Purpose and Objectives

- **Gather** nuclear policy experts, nuclear industry executives, and a variety of government officials.
- **Sensitize** government policy planners, specialists and department representatives about the geo-strategic value of nuclear energy and its evolution in the 21st Century and its nexus with other key issues.
- **Examine** the status of SM&AR development and opportunities, the geopolitical issues associated with the technologies, the governance requirements and gaps that will need to be addressed, and the international cooperation that will be required.

*The workshop proposal was developed by John Barrett, Portolan and Ken Luongo, PGS.





Workshop Collaboration: *The Geo-Strategic Value of Next- Generation Nuclear Power*

Key Themes

Venue: Ottawa, Canada TBD 2020 (1 Day Workshop)

- **SM&AR Technology Development & Value:** Examining the state of technological development, and assessing their potential value, applications and impact.
- **Geostrategy & Global Security:** Creating a SM&AR governance framework, identifying opportunities and challenges (deployment in the arctic), and international cooperation on development.
- **Recommendations & Next Steps**



Glasgow COP Considerations

*Glasgow UN
Climate Change
Summit 2020*





Glasgow UN Climate Change Summit 2020

November 9-20, 2020

Question:

- Is there value in hosting or co-hosting a GNI event on the nuclear-climate-security issue at the Glasgow COP in November 2020?

Potential Value:

- The convening in the UK is an opportunity because it is the most nuclear-supportive COP host nation since the Paris, France meeting.
- Five years have passed since the Paris Agreement; emissions continue to rise, warming is worsening, and fossil fuels are still 80% of global energy.
- UK government may welcome – or be planning - a focus on nuclear as it is a key element of their climate response program.
- Annual COP event is a target for Global Nexus Annual Report



GNI: Additional Ideas for Next Steps

2020 and Beyond





To Discuss:

Avenues for Collaboration?

- Joint-events/workshops
- Joint-research
- Policy papers/briefs
- Social media and communications coordination

Feedback/Additional Ideas?

Financing the Future?

