

Nonproliferation Considerations for the Export of Advanced Reactors: An Industry Perspective

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About the Nuclear Energy Institute:



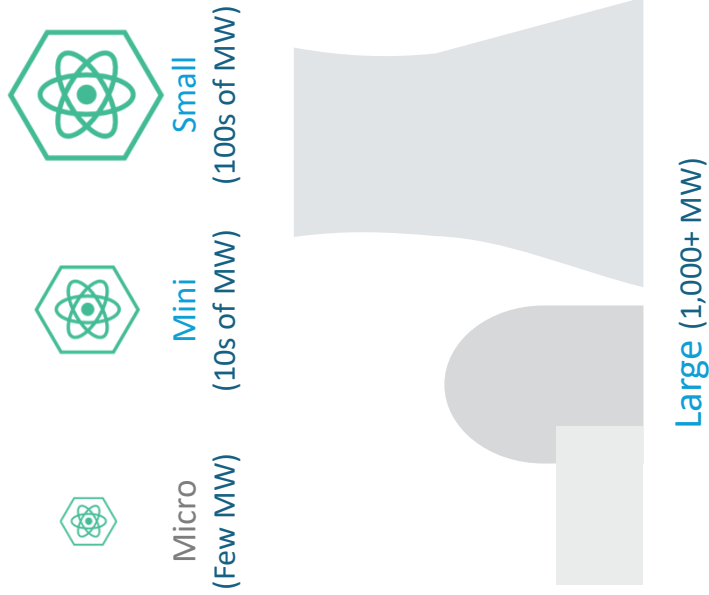
- NEI is the policy organization of the nuclear technologies industry, based in Washington, DC
- NEI has hundreds of members and, with their involvement, develops policy on key legislative and regulatory issues affecting the industry. NEI was founded in 1994 from the merger of several nuclear energy industry organizations, the oldest of which was created in 1953
- The vision of NEI is simple: A world powered by clean and reliable energy.
- NEI's mission is to promote the use and growth of nuclear energy through efficient operations and effective policy.
- NEI accomplishes this by providing a unified industry voice before Congress, the executive branch, state and local legislatures, and federal regulators, as well as international organizations and venues, on key policy issues.

Wider Applications for Advanced Nuclear

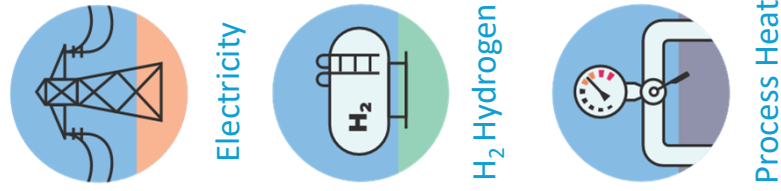


Advanced Nuclear Versatility

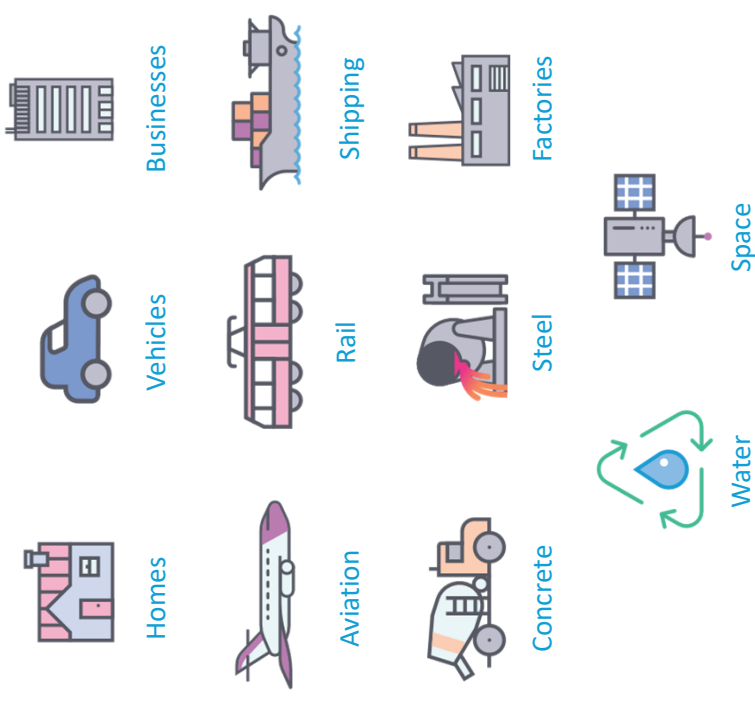
Spectrum of Sizes and Options



Variety of Outputs



Multitude of Uses



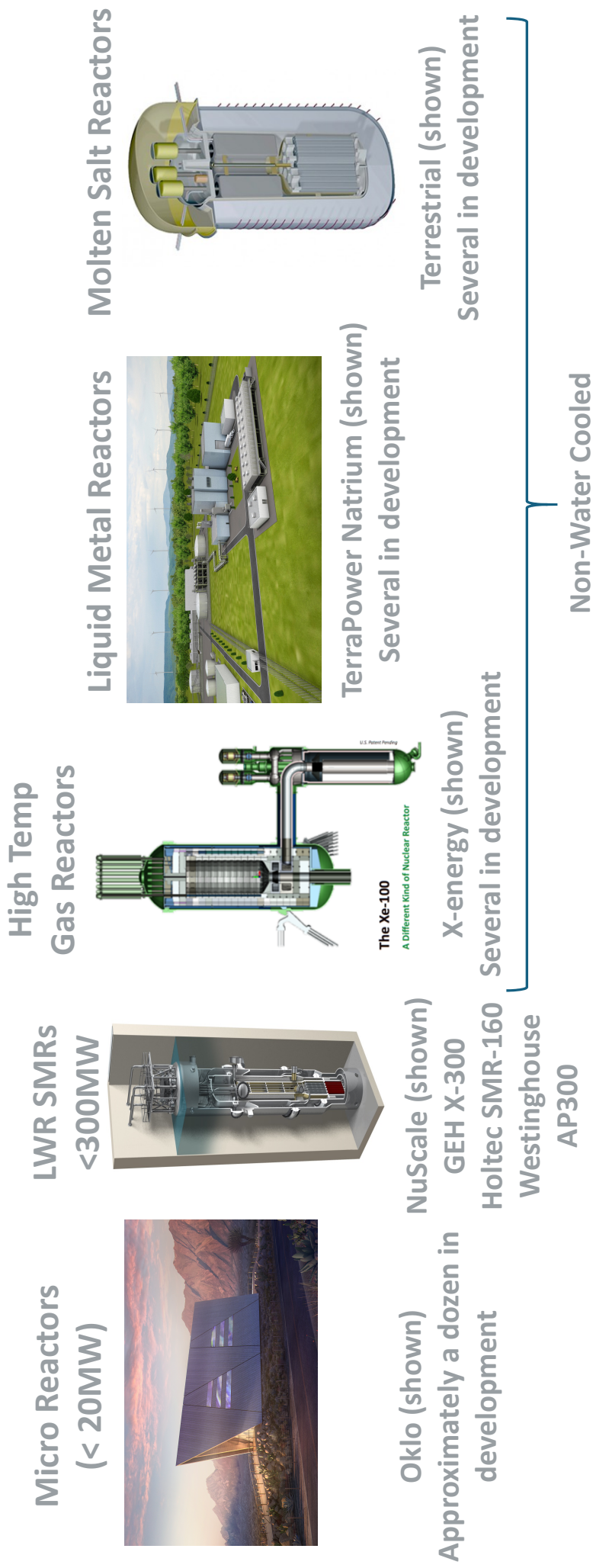
Advanced Reactor Developer Members



HITACHI



Expanding Versatility through Advanced Technology

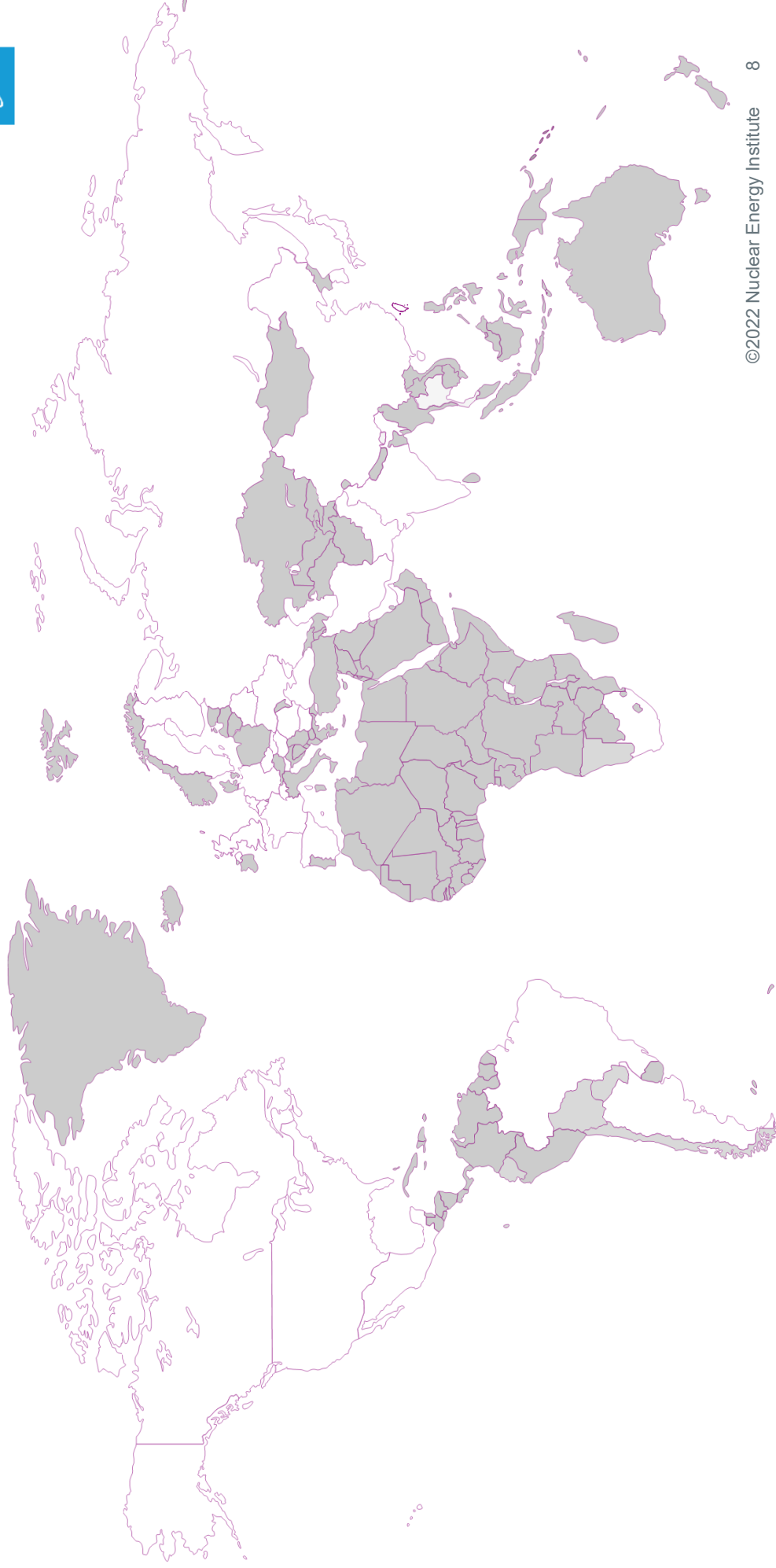


Most $< 300\text{MW}$, some as large as $1,000\text{ MW}$

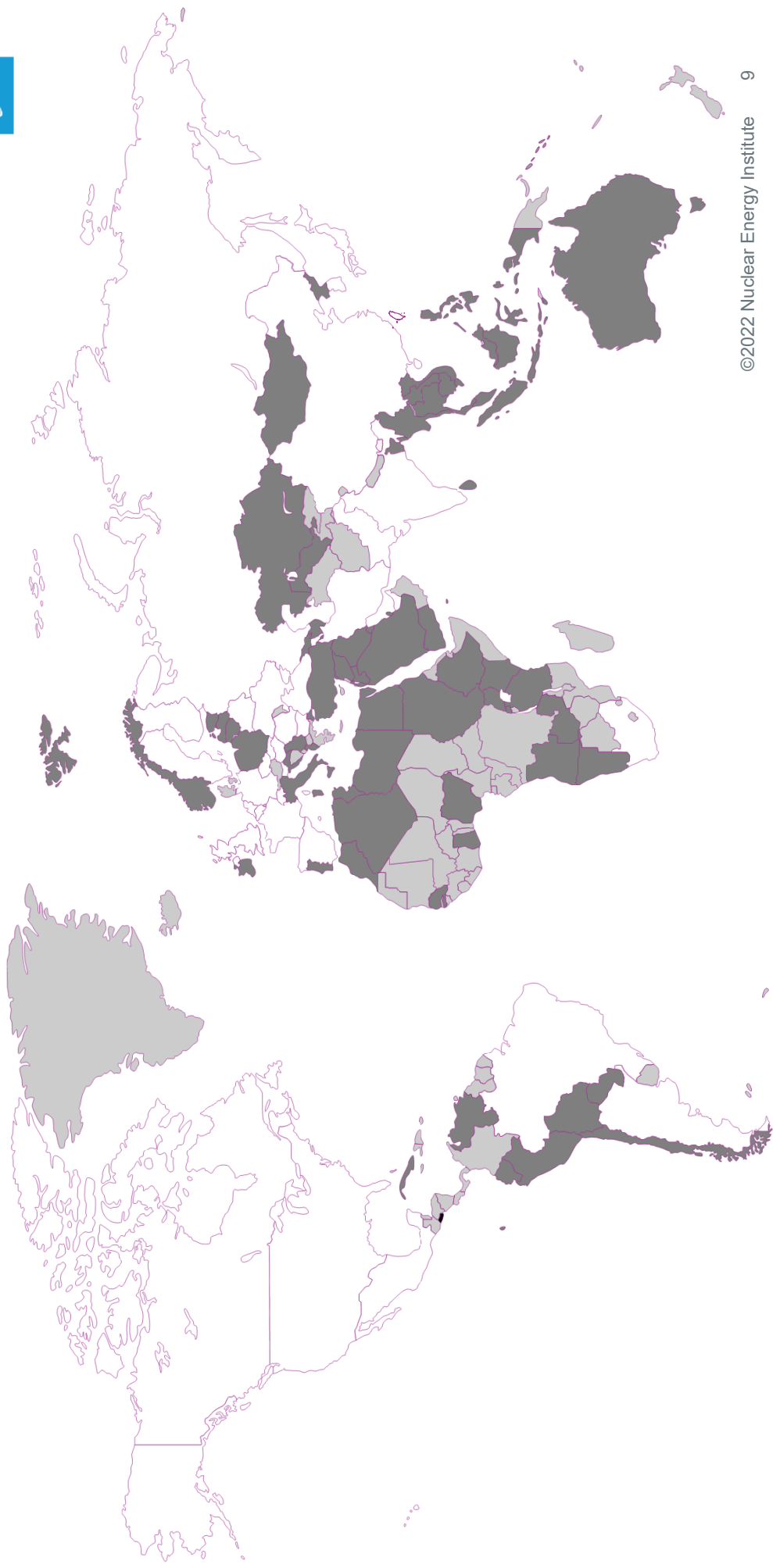
Geopolitical Implications of Advanced Nuclear



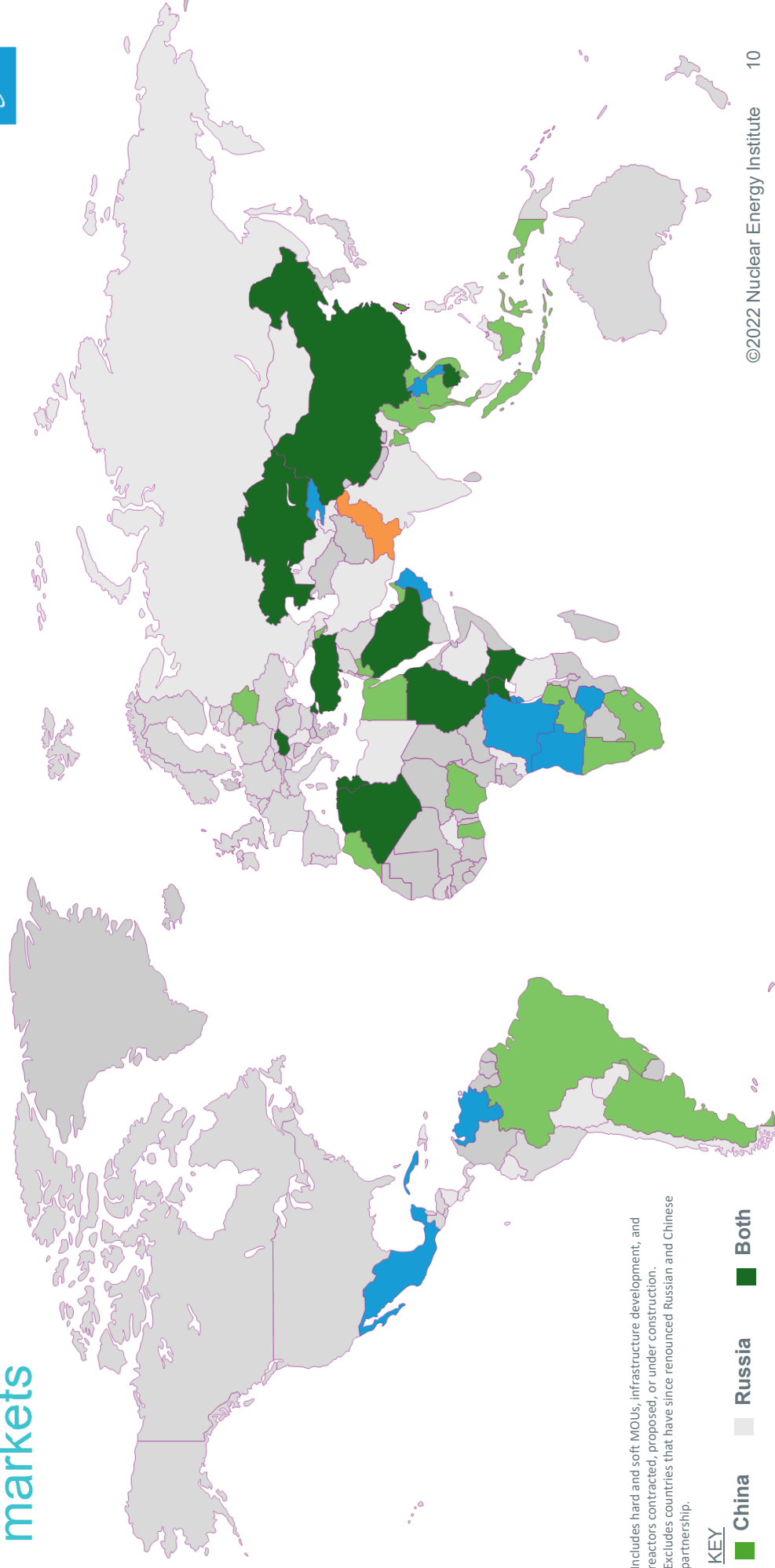
New designs are expanding the nuclear energy map



New designs are expanding the nuclear energy map



Russia, China have moved aggressively into emerging markets



Nuclear Energy Strengthens Security

- **Reliable, resilient power:** 24/7/365 electricity supply to pair with intermittent renewables. Resistant to weather conditions and disruptions to other generation sources.
- **Energy independence:** Fuel is abundant, widely distributed and a small component of the electricity price. Fuel on site and 12-24 months between refueling outages.
- **Economic stability:** Promotes economic growth and technological advancement with large number of high-paying jobs.

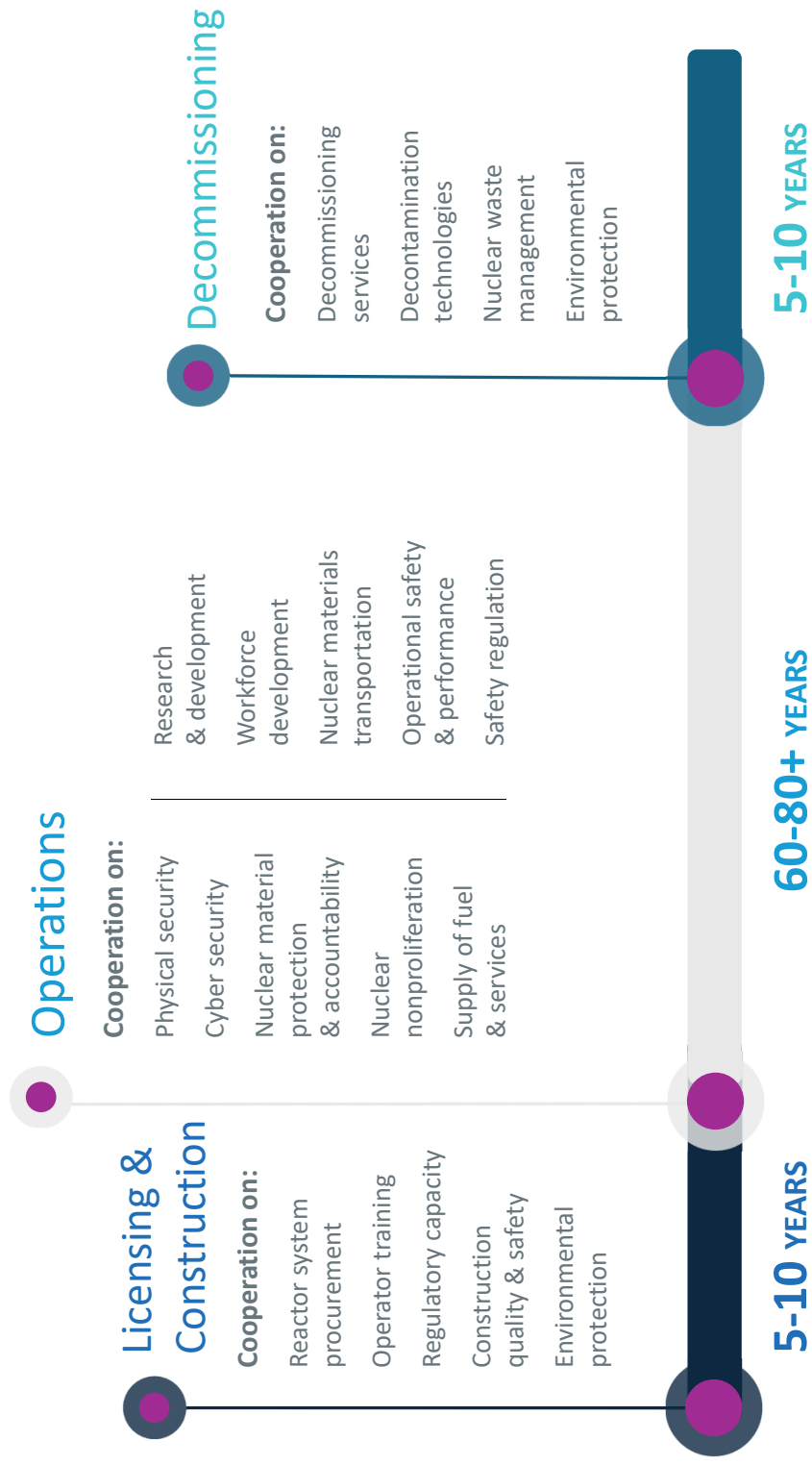


Nuclear Energy Strengthens Bilateral Ties



- **Strategic partnership.** Nuclear energy cooperation is a hallmark of the closest U.S. alliances.
- **Strengthened nuclear energy enterprise.** Commercial agreements lead to deep and extensive relationships between regulators, universities, and national labs.
- **Industrial partnership.** U.S. nuclear energy industry has an unmatched record of technology transfer, localization and industrial partnership.

Nuclear Energy is Long-term



Discussion



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