



Alice Caponiti
*Chair of the GIF Policy
Group*

Generation IV Goals for Nuclear Energy Systems

- **Sustainability**
 - Long term fuel supply
 - Minimize waste and long-term stewardship burden
- **Safety & Reliability**
 - Very low likelihood and degree of core damage
 - Eliminate need for offsite emergency response
- **Economics**
 - Life cycle cost advantage over other energy sources
 - Financial risk comparable to other energy projects
- **Proliferation Resistance & Physical Protection**
 - Unattractive materials diversion pathway
 - Enhanced physical protection against terrorism

These goals guide the cooperative R&D efforts undertaken by GIF members

Key Theme for 2022 Through 2024: Accelerating the Readiness of Gen IV Systems to Meet Net Zero Goals

- Strengthen Gen IV system features for combatting climate change
 - Flexible operations and non-electric applications
- Support transition from R&D to demonstration and deployment
 - Technical readiness
 - Regulatory readiness
 - Improved economics
- Strengthening GIF relevance to industry
 - Industry engagement
 - Senior Industry Advisory Panel
- Supporting the Gen IV talent pipeline