



U.S. DEPARTMENT OF  
**ENERGY**

**Nuclear Energy**

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# **International Nuclear Energy Cooperation Program**

**Briefing to the Nuclear Energy  
Advisory Committee (NEAC)**

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April 2010



# Key NE International Engagement Areas

## ■ Technical Collaboration

- R&D with other advanced fuel cycle countries (e.g., bilateral action plans, I-NERIs, trilateral arrangements) to address long-term technical goals
- Other non-advanced fuel cycle country cooperation via I-NERIs, MOUs to address nearer-term technical issues (e.g., Gen III reactor deployment and applications, fuel services, radioactive waste management)

## ■ Policy Engagement

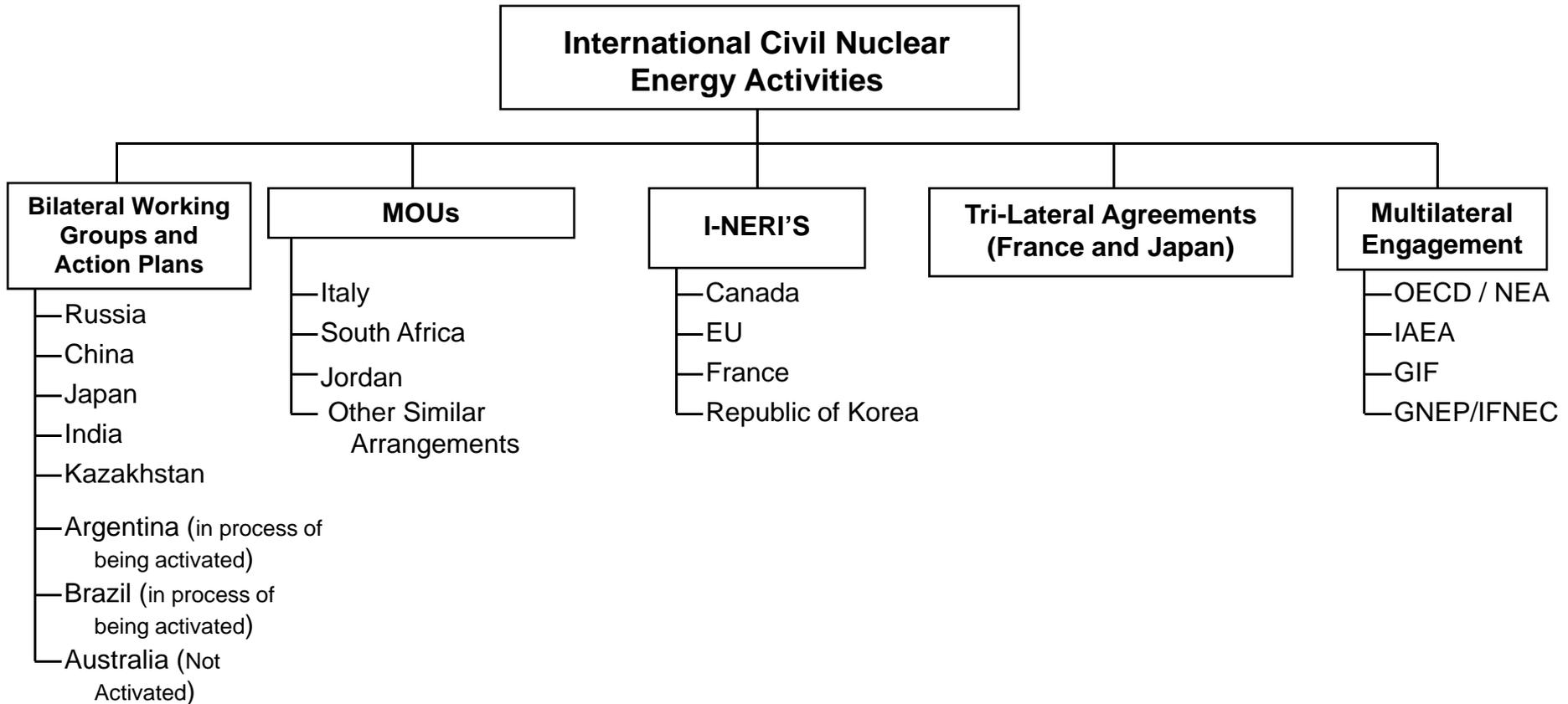
- Multilateral and bilateral engagement via international partnering (e.g., GNEP/IFNEC, action plans, expert-based participation in U.S. policy formulation)

## ■ International Nuclear Fuel Management

- Exploring comprehensive international commercially based nuclear fuel service approaches (i.e., cradle-to-grave fuel services)



# International RD&D Cooperation and Related Activities





# Overview

## Nuclear Energy

- New program proposal for FY 2011
- International Nuclear Energy Cooperation (INEC) serves as the central coordinating program for international engagement with the Office of Nuclear Energy (NE)
- INEC represents NE, along with relevant RD&D program staff, in interactions with other government agencies
- INEC will support the development of President Obama’s call for a new framework for civil nuclear cooperation by exploring international fuel service management approaches

(dollars in thousands)

| FY 2009 Current Appropriation | FY 2009 Current Recovery Act Appropriation | FY 2010 Current Appropriation | FY 2011 Request |
|-------------------------------|--|-------------------------------|-----------------|
| 0                             | 0  | 0                             | 3,000           |



## Objectives

### Nuclear Energy

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- Support NE program offices in implementing international cooperative R&D activities that further NE's mission
- Provide technical, policy, and administrative support to carry out the civilian nuclear energy aspects of officially approved international agreements and other relevant U.S. international activities and commitments
- Provide expert-based advice and support to other DOE offices and Federal agencies that are planning and/or implementing new agreements and other U.S. commitments having civilian nuclear energy aspects (e.g., expert-based support to Commerce regarding U.S. international commercial priorities)
- Serve as advisors to other DOE offices and Federal agencies on general issues related to the international use of civilian nuclear energy
- Explore international nuclear fuel service arrangements to build a new framework for civil nuclear cooperation so that countries can access nuclear energy without increasing the risks of proliferation

## Benefits

### Nuclear Energy

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- In FY 2011, funding would support international civil nuclear energy technical coordination activities that would allow DOE to more effectively and synergistically carry out international RD&D activities, including leveraging international facilities
- This may include exploring international fuel service arrangements to build a new framework for civil nuclear cooperation so that countries can access nuclear energy without increasing the risks of proliferation
- NE's international collaborations aim to resolve challenges arising from the global expansion of nuclear power and reinforce U.S. nonproliferation, security, and safety policies.



### Nuclear Energy

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- Funding would support U.S. participation in international organizations that engage in technical collaboration and influence global nuclear energy policy, such as the IAEA and international GNEP, which is undergoing transformative changes
- Also support the growing technical collaborations that are occurring primarily through the bilateral Action Plans, Working Groups, and the International Nuclear Energy Research Initiative
- Activities carried out within this program would serve as a complement to, and extension of, the other NE international RD&D program activities to avoid duplication
- Will help the technical program managers focus on their technical collaborations at hand while we take on the responsibility to ensure the various NE programs are well coordinated amongst themselves and with USG policy.

## FY 2010 and FY 2011 Activities

### Nuclear Energy

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#### FY 2010

- Work within the structure of existing civilian nuclear energy cooperation working groups and other bilateral and multilateral venues to identify specific areas of technical cooperation
- Continue U.S. leadership role in international organizations

#### FY 2011

- Continue civil nuclear energy cooperation working group engagements with China, India, Argentina, Brazil, Japan, and Russia and begin the implementation of nuclear cooperation Action Plans
- Coordinate NE research and development international collaboration activities
- Identify policy and technical requirements for the negotiation of additional new agreements for civilian nuclear energy cooperation
- Promote the Convention on Supplementary Compensation for Nuclear Damage (CSC)
- Continue U.S. participation in international organizations
- Pursue international nuclear energy fuel services framework



# International Nuclear Energy Cooperation Program Elements

- Develop the policies that are critical to enabling R&D collaborations that leverage U.S. funds and contribute to U.S. energy security and climate change goals
- Lead the development of policy mechanisms that are required to initiate and implement R&D collaboration programs with other countries (e.g., MOUs, Agreements, Action Plans, WG charters, etc.)
- Having a centralized point of responsibility in NE to coordinate policy development and international engagement improves program efficiency, avoids duplications in R&D programs, ensures consistency in policy requirements, and leverages U.S. funds