



U.S. DEPARTMENT OF
ENERGY

Nuclear Energy

Fuel Cycle Research and Development

Process for Submitting Fuel Cycle Option Concepts

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1. Purpose and Objectives of the 2013 Evaluation and Screening Effort
 - Background
 - Context
 - Overall Process
2. Fuel Cycle Characteristics Affecting Performance
3. Approach for Development of Sets of Fuel Cycle Options and Groups
4. Examples of Fuel Cycle Options
- 5. Process for Submitting Fuel Cycle Concepts**
 - Role of Participants**
 - Requested information**
 - Steps of the Process**

Submitting Fuel Cycle Concepts

■ Role of participants

- Every participant is invited to submit one or more fuel cycle option concepts
- No limit on the number that can be submitted
- Concepts only need to have descriptions sufficient to categorize the concept
 - *Need not to have been analyzed in detail*
 - *Do not provide any analysis results*
- 2 page text limit plus material flow diagrams

■ The deadline for submittal is May 25, 2012

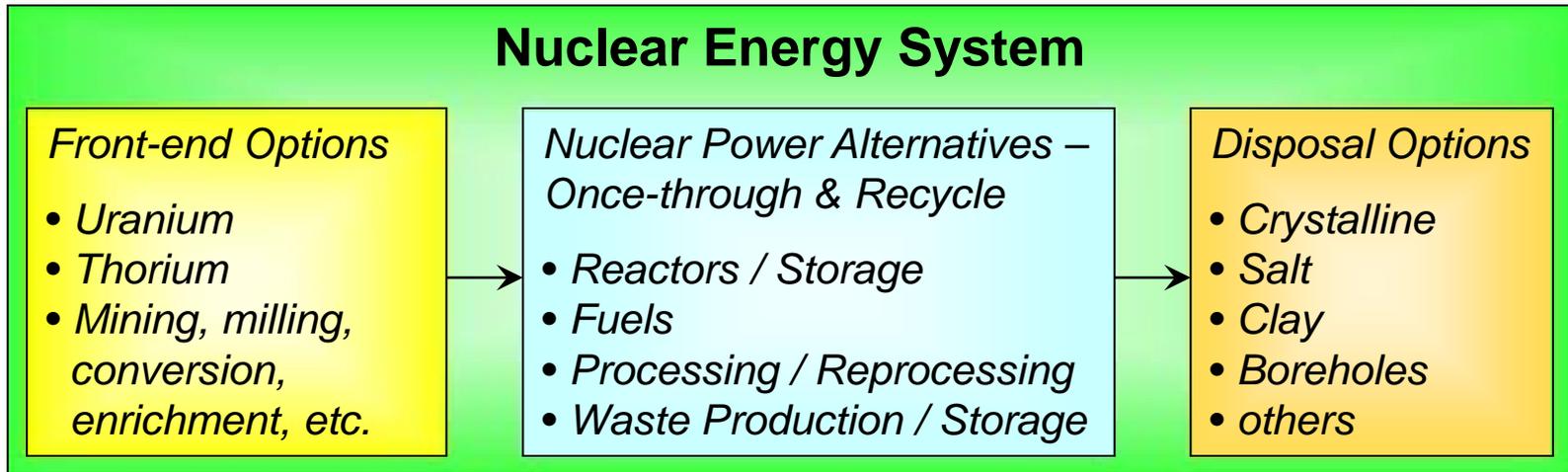
- Provide submittal to fuelcycleoptions@bnl.gov

■ Concepts will be included in the fuel cycle options list, categorized and grouped as appropriate

- Feedback will be provided on how the concept is being included in the evaluation and screening process
- Once feedback has been provided, responses are due back to the project one week later



The Nuclear Fuel Cycle - Nuclear Energy System



■ Requested information

- Only a description of the concept is requested (no analyses), sufficient to uniquely and clearly characterize the concept
- No information that can't be made public, e.g., proprietary, etc.
- Describe Nuclear Power Alternative
 - *Identification of front-end & disposal optional*
 - *Once-through or recycle, Reactor(s) and/or Externally-driven systems*
 - *Neutron spectrum, fuel materials, any other information to uniquely describe the system such as extended storage within the fuel cycle, etc.*