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FEIS Purpose and Need

**U.S. Dept. of Energy, "The Global
Nuclear Energy Partnership," (2006),
available at**

<http://www.gnep.energy.gov/default.html>

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The Global Nuclear Energy Partnership

Greater Energy Security in a Cleaner, Safer World

Purpose

As part of President Bush's Advanced Energy Initiative, the **Global Nuclear Energy Partnership** (GNEP) seeks to develop worldwide consensus on enabling expanded use of economical, carbon-free nuclear energy to meet growing electricity demand. This will use a nuclear fuel cycle that enhances energy security, while promoting non-proliferation. It would achieve its goal by having nations with secure, advanced nuclear capabilities provide fuel services — fresh fuel and recovery of used fuel — to other nations who agree to employ nuclear energy for power generation purposes only. The closed fuel cycle model envisioned by this partnership requires development and deployment of technologies that enable recycling and consumption of long-lived radioactive waste.

The Partnership would demonstrate the critical technologies needed to change the way used nuclear fuel is managed — to build recycling technologies that enhance energy security in a safe and environmentally responsible manner, while simultaneously promoting non-proliferation.



U.S. Announces New Measures to Expand the Use of Nuclear Power While Reducing the Threat of Nuclear Proliferation

"The world must create a safe, orderly system to field civilian nuclear plants without adding to the danger of weapons proliferation."

President George W. Bush
National Defense University
February 11, 2004

"To build a secure energy future for America, we need to expand production of clean, safe nuclear power."

President George W. Bush
Ronald Reagan Building
June 15, 2005

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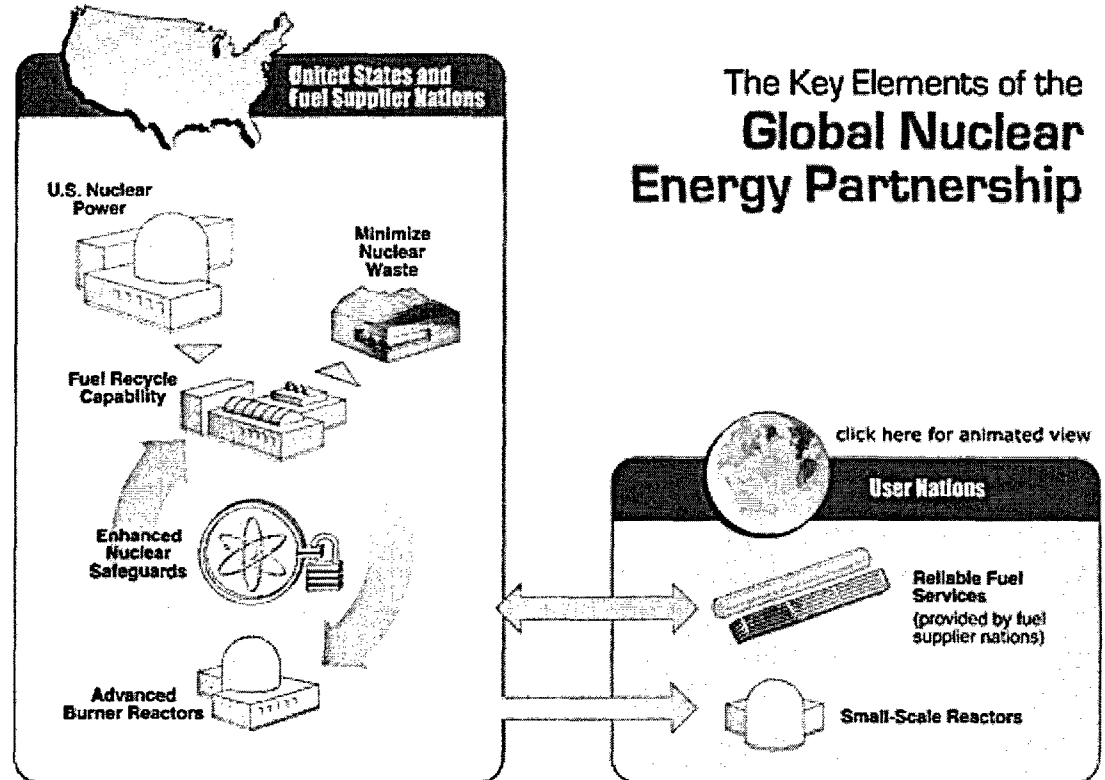
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Benefits

- Provide abundant energy without generating carbon emissions or greenhouse gases.
- Recycle used nuclear fuel to minimize waste and reduce proliferation concerns.
- Safely and securely allow developing nations to deploy nuclear power to meet energy needs.
- Assure maximum energy recovery from still-valuable used nuclear fuel.
- Reduce the number of required U.S. geologic waste repositories to one for the remainder of this century.



- **Expand Domestic Use of Nuclear Power**
Build on advances made during the Bush Administration to encourage more nuclear power in the U.S.
- **Demonstrate More Proliferation-Resistant Recycling**
Accelerate the development, demonstration and deployment of new technologies to recycle nuclear fuel that do not result in separated plutonium —a key proliferation risk of existing recycling technologies.
- **Minimize Nuclear Waste**
Significantly reduce the volume of nuclear waste to be disposed of in Yucca Mountain , making disposal less complex and minimizing the need for additional repositories for generations to come.
- **Develop Advanced Burner Reactors**
Demonstrate and deploy Advanced Burner Reactors that use the latest technology to produce energy from recycled nuclear fuel.
- **Establish Reliable Fuel Services**
Establish a consortium of nations with advanced technologies to enable developing nations to acquire nuclear energy economically and while minimizing proliferation risk.
- **Demonstrate Small-Scale Reactors**
Design and deploy small-scale nuclear reactors that are cost-effective, secure and well-suited to conditions in developing nations.

**Develop Enhanced Nuclear Safeguards**

In order for the International Atomic Energy Agency to effectively and efficiently monitor and verify nuclear materials, design advanced safeguards approaches directly into the planning and building of new, advanced nuclear energy facilities.

Global Nuclear Energy Partnership

Accelerating Clean and Safe Nuclear Energy

Last Updated: 2/6/2006

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