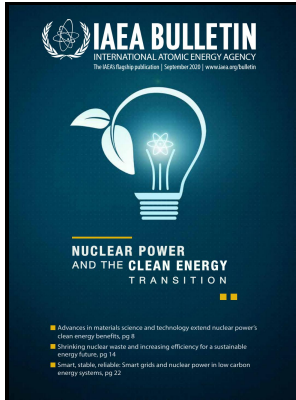


# Managing the nuclear fuel cycle - policy implications of expanding global access to nuclear power

Nova Science Publishers - Managing the Nuclear Fuel Cycle: Policy Implications of Expanding Global Access to Nuclear Power



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In today's commercial reactors, therefore, the buildup of non-fissile plutonium and other isotopes sharply limits the number of reprocessing cycles before the recycled fuel can no longer sustain a nuclear chain reaction and must be stored or disposed of. Though a significant amount, it is far less than that projected 50 years ago.

## MANAGING THE NUCLEAR FUEL CYCLE POLICY IMPLICATIONS OF EXPANDING GLOBAL ACCESS TO NUCLEAR POWER

Naturally occurring uranium lacks sufficient fissionable  $^{235}\text{U}$  to make fuel for commercial light-water reactors, through an enrichment process the concentration of  $^{235}\text{U}$  is increased several times above its natural level of 0.

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IAEA Role IAEA would apply IAEA as broker. The corporation was privatized as USEC Inc. Comprehensive safeguards agreement and Additional Protocol in force.

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Converdyn Metropolis 14,000 Source: IAEA Country Nuclear Fuel Cycle Profiles, 2nd ed.

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The most recent proposal under the U. Also, how would related technologies be treated? A fourth area in which Congress plays a key role is in

the approval of nuclear cooperation agreements. Two such agreements have been negotiated but not yet approved by Congress: one with India and one with Russia.

### **Managing The Nuclear Fuel Cycle Policy Implications Of Expanding Global Access To Nuclear Power PDF Book**

About this CRS report This document was obtained by from the United States. The GNEP proposal has attracted some international interest, at least among potential supplier states.

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