Report	Synopsis	Care.	App. Hoor Hoor	September 1	The state of the s	riol Many	Mich Total of the Control of the Con
Nuclear Energy: Policies and Technology for the 21st Century Nuclear Energy Advisory Committee November 2008	This report was prepared and adopted by the DOE NE Advisory Committee. NEAC formed two subcommittees to prepare the study: (1) The Policy Subcommittee explored the critical choices and implications in U.S. nuclear energy policy, framing options for the next president; (2) The Technical Subcommittee reviewed facilities available for nuclear energy programs discussed in reports produced for DOE-NE (includes most of the reports in this document).  The report addresses the role of nuclear power on the nation's energy security, the environment and non-proliferation, identifying important benchmarks in policy and technology areas while emphasizing a global approach to ensure a sustained domestic nuclear program and continued international leadership. The report also calls for DOE to assess its aging and decaying infrastructure to establish the right mix of mission-driven modern facilities, thus identifying which facilities need to be maintained, upgraded, abandoned, or built.	F	F	S	R&D D	Deployment*	F
A Sustainable Energy Future: The Essential Role of Nuclear Energy DOE National Laboratory Directors August 2008	This report reflects the commitment of DOE national laboratory directors to U.S. energy security. It highlights the important role nuclear energy can and should play by identifying the components of a strategy that can integrate across DOE and other federal agencies with a concentrated effort to rebuild the necessary nuclear enterprise using a broad-based R&D effort and engaging industry and the international community. It describes decisive leadership and a strong public-private sector partnership as key to ensuring a successful effort.  The report also emphasizes building the nation's nuclear capabilities. It argues for making moderate to significant investments to acquire and maintain state-of-the-art facilities and equipment and gaining access to high-performance computing and advanced modeling and simulation capabilities. It also recommends dry cask storage, at existing sites or consolidated storage, as an interim solution for keeping waste management options open while R&D, addressing both nonproliferation and security, continues for a sustainable closed fuel cycle.	F	F	F	F	U	F
Nuclear Energy for the Future-Executive Recommendations for R&D Capabilities  Battelle in conjunction with domestic nuclear energy industry, the academic community, and the national laboratories, July 28, 2008	Battelle led a team of representatives from domestic nuclear energy industry, the academic community, and the national laboratories at the request of DOE NE to identify and prioritize gaps in the necessary capabilities to achieve nuclear energy industry goals. This report identifies the current and future nuclear R&D capabilities required to make this happen. The capabilities support: (1) continued, safe operation of the current fleet of	•	F	F	F	U	F
Review of DOE's Nuclear Energy Research and Development Program National Research Council of the National Academies; ISBN: 0-309-11125-0 2008	The National Academy of Sciences recommended priorities for DOE NE R&D programs given the likelihood of constrained budgets. It evaluated Nuclear Power 2010, Generation IV, the Nuclear Hydrogen Initiative, the Global Nuclear Energy Partnership/Advanced Fuel Cycle Initiative and the Idaho National Laboratory's facilities program. The NAS report suggested high priority be given to: (1) NP 2010 and research supporting the current commercial fleet of LWRs and (2) university infrastructure support, which they view as largely a government responsibility. It recommends	•	F	F	F	U	F
Report on Proliferation Implications of the Global Expansion of Civil Nuclear Power International Security Advisory Board April 7, 2008	This report, prepared by the International Security Advisory Board (ISAB) provides recommendations to assist the State Department in mitigating nuclear weapons proliferation as the demand, development, and expected use of civil nuclear fuel expand internationally. It concludes that the best way to prevent expansion of sensitive	S	F	S	S	F	S
Managing the Nuclear Fuel Cycle: Policy Implications of Expanding Global Access to Nuclear Power Congressional Research Service Report for Congress Updated January 30, 2008.	In response to recent renewed interest in nuclear power, the Congressional Research Service provided this report to Congress. It outlines the current debate over proposed strategies to redesign the global nuclear fuel cycle. It examines the factors prompting the renewed interest in nuclear power, the industry's current state of affairs, and the interdependence with the nuclear fuel cycle. It also reviews several proposals aimed at limiting the	N	N	N	N	N	N
Nuclear Power Joint Fact-Finding The Keystone Center June 2007	This report, released by the Keystone Center (an independent, nonprofit public policy and education organization), describes the circumstances impacting the future of nuclear power. It discusses: the economics of nuclear power, safety and security, waste and reprocessing, and proliferation. It concludes that the best option for storage of spent nuclear fuel is a deep underground geologic repository. In the interim, it suggests spent fuel can be stored safely and securely in either on-site spent fuel pools or dry casks. It also recommends centralized interim storage	•	F	S	N	U	S
The Future of Nuclear Power — An MIT Interdisciplinary Study Massachusetts Insitute of Technology ISBN 0-615-12420-8 2003	This report supports expanding the international nuclear power fleet for global energy security and climate change mitigation. Through safeguards, dual-use technology, and technical and regulatory capability for safe reactor and reprocessing facilities design and operation the report examines the viability of nuclear power on an international scale. It concludes that in the near term, the open, once-through fuel cycle is best to meet the challenges of cost, waste, safety and proliferation and it supports NP 2010 to reduce costs. It recommends that DOE broaden its long-term waste R&D program to include improved engineered barriers, investigation of alternative geological	•	F	F	F	U	N
	Nuclear Energy Investments						
**20% R&D budget to be used for work force development	Current Fleet 0.5% Advanced LWR's 26%	Favor		N Neutral	U	U nfavorabl	( e
	Advanced LWR's 26%  Next Generation 7%  Fuel Mgmt. Technologies 32%	Favor Supp prio	rable	Neutral Mentions by doesn't state position	out [	nfavorabl Does not support priority	e