

DOE Nuclear Energy R&D Programs - Addressing Proliferation Concerns for Advanced Nuclear Systems

The Office of Nuclear Energy (NE) program is structured around research and development of nuclear energy technologies that will help meet non-proliferation and climate goals and maintain the national nuclear technology infrastructure. Activities underway include support for existing and new light water reactor based nuclear power systems; development of new, advanced reactors; providing options for managing the nuclear fuel cycle; and maintaining the necessary infrastructure. Included will be continued U.S. engagement in international organizations to leverage technical expertise, resources, and facilities, and to advance non-proliferation policy objectives. For FY2010, new initiatives in the form of Energy Innovation Hubs for Extreme Materials and Modeling and Simulation; as well as a broad educational effort, Regaining Energy Science and Engineering are proposed. This presentation will talk about the NE program of research and development with a focus on nonproliferation and safeguards R&D.