

components (depending on details of the coal and nuclear plant types), reuse the cooling water intake system, take advantage of the local trained/skilled workforce, and provide continued availability of low-cost, reliable, dispatchable electricity.

NE's supply chain report focuses on the need to deploy advanced reactors and find solutions to their fuel requirements. There is a functioning supply chain for existing nuclear reactors, although not all components are domestically supplied.

Many advanced reactors use high-assay low-enriched uranium (HALEU) while others such as those under NE's [Advanced Reactor Demonstration Program \(ARDP\)](#) require TRISO fuel and uranium metal fuel. None of these fuels is commercially available.

Policy Next Steps

DOE's goals are to enable continued operation of existing U.S. nuclear reactors, enable deployment of advanced nuclear reactors, develop advanced nuclear fuel cycles, and maintain U.S. leadership in nuclear energy technology. Although there are challenges and risks in each of these areas, implementation of targeted policies would support achievement of all the goals and would strengthen the U.S. nuclear supply chain to meet the nation's energy, environmental, and societal needs. ■

Download the full document and the corresponding other documents that are part of the DOE response to the supply chain executive order at:
www.energy.gov/policy/supplychains

