

What does the Office of nuclear energy do?

The Office of Nuclear Energy advances nuclear power as a resource capable of meeting the nation's energy, environmental, and national security needs.

What is ORNL's role in nuclear storage?

ORNL is one of three national labs selected by the U.S. Department of Energy to receive canisters for ongoing nuclear storage research projects. The canisters play an essential role in the nuclear power industry, which is a major component of the nation's carbon-free electricity production.

Could nuclear power plant sites support new reactor builds?

And which states have them? Could the Nation's Nuclear Power Plant Sites Support New Reactor Builds? A new U.S. Department of Energy report finds more than 60 gigawatts (GW) of new nuclear capacity could potentially be built at operating or recently retired nuclear power plant sites across the country.

Could a new nuclear power plant be built at a retired nuclear plant?

A new U.S. Department of Energy report finds more than 60 gigawatts (GW) of new nuclear capacity could potentially be built at operating or recently retired nuclear power plant sites across the country. The new facility will help turn used nuclear material into fuel for Oklo's first advanced nuclear power plant.

Can a nuclear fuel canister be used to dispose of nuclear waste?

The receipt of a nuclear fuel canister is boosting the research of an Oak Ridge National Laboratory team investigating methods to help the nation effectively dispose of nuclear waste for the long term using canisters. The team holds a metal grid used in nuclear fuel assemblies to position the fuel rods in canisters.

How big is the San Onofre nuclear fuel canister?

The San Onofre nuclear fuel canister, which was originally slated for use by the San Onofre Nuclear Generating Station in California but never used to store spent fuel, is over 16 feet tall and weighs about 22 tons empty - roughly the equivalent of five small pickup trucks.

To date, U.S. reactors have generated 90,000 metric tons of spent nuclear fuel since the 1950s, which is safely and securely stored at more than 70 nuclear power plant sites ...

In the wake of Hurricane Helene's devastating impact in the Southeast, the Savannah River Site mobilized teams from Savannah River Nuclear Solutions Site Services, SRS Emergency Response Organization, SRS Fire ...

NNSA is a semi-autonomous Department of Energy agency responsible for enhancing national security

through the military application of nuclear science. ... National Nuclear Security Administration. 1000 Independence Ave., S.W. ...

DOE Global Energy Storage Database. The DOE Global Energy Storage Database provides research-grade information on grid-connected energy storage projects and relevant state and federal policies. All data can be exported to ...

More of our nation's top security experts are recognizing nuclear energy as a cornerstone of national security. Why? It ensures geopolitical leadership abroad, offers the U.S. a resilient ...

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