Sodium reactor and molten salt energy storage system

Built for the 21st century grid, TerraPower"s Natrium technology is one of the fastest and lowest-cost paths to advanced, zero carbon energy.

The project features a 345 MW sodium-cooled fast reactor with a molten salt-based energy storage system. The storage technology can boost the system"s output to 500 MW of power ...

The Natrium reactor, a next-generation sodium-cooled fast reactor, integrates a gigawatt-hour-scale molten salt energy storage system to deliver flexible, zero-carbon power.

The Natrium reactor, a sodium-cooled fast reactor developed by TerraPower, fundamentally redefines nuclear power by integrating a gigawatt-scale molten salt energy storage ...

Unlike today"s Light Water Reactors, the Natrium reactor is a 345-megawatt sodium fast reactor coupled with TerraPower"s breakthrough innovation -- a molten salt energy storage system, providing built-in ...

There are a number of different means to store energy including mechanical, electrical, and chemical as shown in Table 1. These storage methods are high quality since it is possible to directly convert ...

Initially, mathematical models for the small modular sodium-cooled fast reactor and molten salt energy storage system are proposed and implemented using MATLAB/SIMULINK.

An offshore renewable power generation subsystem with wind turbine and solar PV components are designed to be integrated with molten salt energy storage coupled sodium-cooled ...

Molten salt is just what it sounds like. Chloride, fluoride, and nitride-based salts, including sodium chloride or table salt, melt at around 1,000 degrees Fahrenheit or even hotter. In their molten ...

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TerraPower and GE Hitachi Nuclear Energy developed the 345MWe natrium reactor with and gigawatt-hour-scale, molten salt energy storage. This unique combination will provide clean, flexible energy ...

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