

Learn more about America's energy sources: fossil, nuclear, renewables and electricity.

CAES systems are often considered an environmentally friendly alternative to other large-scale energy storage technologies due to their reliance on naturally occurring resources, such as salt caverns for air storage and ...

WASHINGTON --The U.S. Department of Energy (DOE) today released key studies from the National Petroleum Council (NPC) that provide comprehensive recommendations to help ...

Save money and energy at home. Learn ways to save energy and use clean, renewable energy technologies at home.

Genesis Mission leverages the Department of Energy's unique scientific datasets--spanning more than 100 petabytes of experimental and simulation data across every major domain of science--to double ...

Discusses CAES integration with other energy conversion systems followed by its practical applications in different levels of the energy system from the energy market perspective to the distribution ...

The U.S. Department of Energy (DOE) today announced over \$320 million in investments to rapidly advance the Genesis Mission's artificial intelligence (AI) capabilities.

SimScale is a full-cloud CAE simulation software that helps you perform CFD, FEA, and thermal simulations for CAD models in the cloud.

The architecture of CAES system based on releasing energy in multi-time scales is shown in Fig. 1, which is composed of a compression energy storage subsystem, a gas storage subsystem and an expansion energy ...

If you're an engineer designing the next-gen power grid, a renewable energy startup founder, or just a tech geek obsessed with energy storage systems (ESS), this is your backstage pass to CAE tools.

"Achieving this future requires harnessing nuclear power. This agreement enables closer collaboration between NASA and the Department of Energy to deliver the capabilities necessary to ...

Siemens recently demonstrated how live sensor data from operational energy storage systems can feed back into CAE models, creating self-improving simulation loops.

Energy storage is essential to a clean and modern electricity grid and is positioned to enable the ambitious goals for renewable energy and power system resilience.

To compete globally, we must expand energy production and reduce energy costs for American families and businesses. America must lead the world in innovation and technology ...

There are two main types of solar energy technologies--photovoltaics (PV) and concentrating solar-thermal power (CSP). On this page you'll find resources to learn what solar ...

Fiscal Year 2026 Budget Justification documents to support the Department of Energy Budget Request to Congress

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