

Learn more about the advantages of wind energy, solar energy, bioenergy, geothermal energy, hydropower, and marine energy, and how the U.S. Department of Energy is working to modernize ...

Looking ahead, liquid cooling and immersion cooling are expected to integrate with modular data center designs, energy recovery frameworks, and low-GWP coolant technologies.

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

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

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 ...

In this study, we first conduct a comprehensive review of direct liquid cooling technologies (immersion cooling and spray cooling) and their potential for energy savings in DCs.

Direct liquid cooling technology is one of the most promising energy-saving cooling technologies due to its advantages of high cooling efficiency, low noise, and reduction ...

Today, the two dominant thermal management technologies in the battery energy storage industry are air cooling and liquid cooling. These are not simply generational upgrades of one another, but rather two ...

Pre-configured product: standard 20-foot container with integrated DC energy storage unit, featuring a liquid-cooling design and compliant with IEC104 / IEC61850 communication protocols. Liquid Cooling Design ...

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 ...

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 ...

Explore why high-density liquid cooling BESS is essential for 5MWh+ BESS containers, cutting costs and boosting efficiency in modern energy storage.

Air cooling offers simplicity and lower cost; liquid cooling delivers higher efficiency for demanding

applications. By aligning cooling technology with your needs, you can ensure safer, more reliable, and more ...

"Developing faster, more accurate resource evaluation tools, and creating a new more powerful class of magnetic materials will enable America to unlock domestic reserves, strengthen ...

Discover how InnoChill is transforming energy storage liquid cooling with cutting-edge, eco-friendly solutions. Our high-efficiency cooling technology enhances performance in data centers, ...

Learn how liquid thermal management is essential for modern energy storage systems, providing better safety, longer battery life, and higher efficiency for ESS applications.

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