Future energy storage sites in cold regions of the united states

As part of the AGES project, the prototype calls for the accelerated adoption of commercially proven cold region technologies, contained within an energy efficient shelter, which are adaptable to ...

The inevitable increase in military installations and surveillance technologies means novel cold tolerant energy generation and storage systems are more urgently needed.

Through building energy usage and system performance modeling, researchers show how waste heat from a nearby coal plant could be captured during summer months, ...

Results indicate that favorable RTES conditions exist in each region, with the Coastal Plain and Basin and Range being especially favorable for thermal storage capacity, ...

New energy storage research from NREL, a U.S. Department of Energy national laboratory, has demonstrated a way to store and reuse heat underground to meet the heating ...

To identify regions with higher favorability for storage with GHC, we must quantify the amount, timing, and type of building heating and cooling that could be shifted seasonally using storage.

Abstract: Electrical energy storage (EES) has emerged as a key enabler for access to electricity in remote environments and in those environments where other external ...

It is apparent that energy storage resource procurement has been growing, and will continue to do so, in certain regions of the United States. This growth is largely a result of ...

This paper provides a comparative analysis of future energy scenarios with distributed technology options including (1) wind and solar generation; (2) heat pumps for ...

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