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US Environmental Protection Energy Storage Project





Overview

Why are energy storage resources important?

Energy storage resources have become an increasingly important component of the energy mix as traditional fossil fuel baseload energy resources transition to renewable energy sources. Currently 23 states, plus the District of Columbia and Puerto Rico, have 100% clean energy goals in place.

How much energy is stored in the United States?

According to the U.S. Department of Energy, the United States had more than 25 gigawatts of electrical energy storage capacity as of March 2018. Of that total, 94 percent was in the form of pumped hydroelectric storage, and most of that pumped hydroelectric capacity was installed in the 1970s.

How are battery energy storage resources developed?

The most significant battery energy storage resource development has occurred in states that have adopted some form of incentive for development, including through utility procurements, the adoption of favorable regulations, or the engagement of demonstration projects.

Should PSH projects be included in state-level energy storage policies?

PSH projects have seen growing policy support over time, from being largely excluded in past state-level renewable portfolio standards (RPS) to increasingly being included in state-level energy storage policies. In the United States, 28 states and the District of Columbia have set RPS or clean energy standards (DSIRE 2023).



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About Electricity Storage
Electricity Storage in The United States
Environmental Impacts of Electricity Storage
Storing electricity can provide indirect environmental benefits. For example, electricity storage can be used to help integrate more renewable energy into the electricity grid. Electricity storage can also help generation facilities operate at optimal levels, and reduce use of less efficient generating units that would otherwise run only at peak ti See more on epa.gov
Power Technology

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Sandia National Laboratories Solar Thermal



Facility-Molten Salt Energy Storage System.
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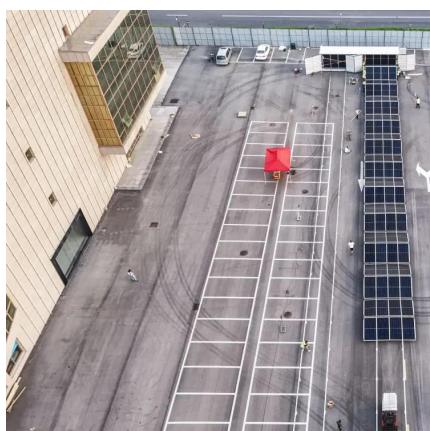
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1



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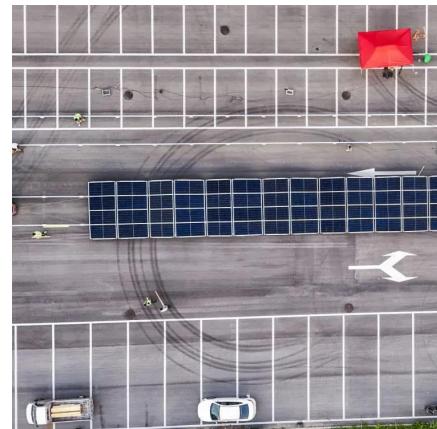


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