

# **Rooftop solars can store energy**





## Overview

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Storing electricity from solar energy on rooftops is primarily accomplished through 1. solar batteries, 2. inverters, and 3. energy management systems. Are rooftop solar panels or battery energy storage systems worth the cost?

Pacific Northwest National Laboratory (PNNL) researchers are here to help. Homeowners must navigate a quagmire of complicated policies to determine whether the energy savings from rooftop solar panels or battery energy storage systems (BESS) are worth the high upfront cost.

Are rooftop solar and battery energy storage a barrier to adoption?

Even with the benefits of rooftop solar and battery energy storage, the upfront cost of these systems is still a barrier to adoption. In some cases, especially for BESS, the time it takes for a homeowner to recoup the cost of the system with energy savings is longer than the lifetime of the technology itself.

Why is rooftop solar so important?

But as climate change drives hotter summers and more extreme winter storms, reliable access to power will become more vital to everyday life. Rooftop solar and BESS can provide both energy to homeowners as well as relieve some load on the power grid as a whole.

Can solar panels be installed on a building rooftop?

The building rooftop presents a wealth of spatial opportunities for promoting the utilization and conservation of solar energy. The installation of photovoltaic panels on rooftops is a feasible and convenient method for integrating renewable energy sources into buildings.



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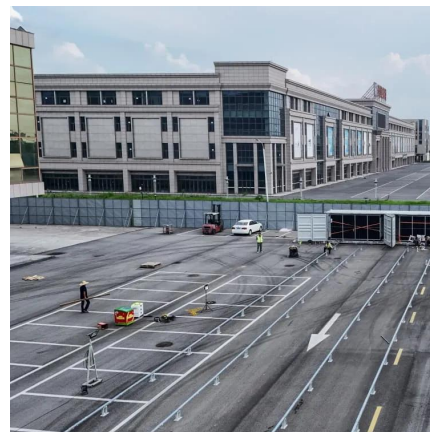


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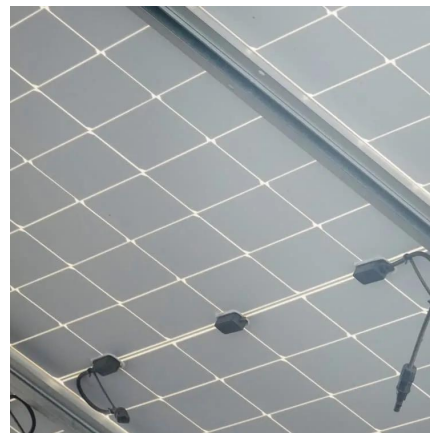


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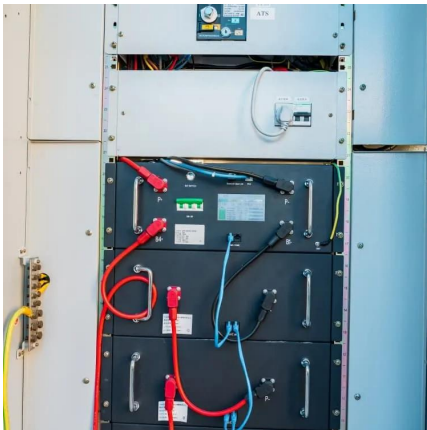
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