

ContainerPower Energy Solutions

Rooftop BESS for solar panels



Overview

What is rooftop solar with Bess?

Rooftop solar with BESS is a practical, scalable solution to modern energy challenges. It empowers commercial and industrial users with control, flexibility, and cost savings, while supporting a cleaner, more resilient grid. As energy systems evolve, solar + storage is poised to be a cornerstone of the distributed, decarbonized future.

Why should you choose a rooftop solar system?

Power your home with clean energy straight from the sun. Get low-cost clean energy while reducing your carbon footprint with rooftop solar panels. When you pair solar with an energy storage system you can increase your comfort and safety during power outages and further reduce the cost of your electric bill.

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.

How much would a rooftop solar system cost without Bess?

Without BESS, the same household could install 10 kW of rooftop solar, which would cost \$28,700 and save \$1,567 per year. PGE and the state of Oregon both offer incentives for rooftop solar and battery energy storage. With the utility, state, and federal incentives, the combined solar and BESS system could be paid back within 11 years.

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.

Are rooftop solar panels a good investment?

Get low-cost clean energy while reducing your carbon footprint with rooftop solar panels. When you pair solar with an energy storage system you can increase your comfort and safety during power outages and further reduce the cost of your electric bill. Typically a lower installation cost than ground-mounted systems.

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