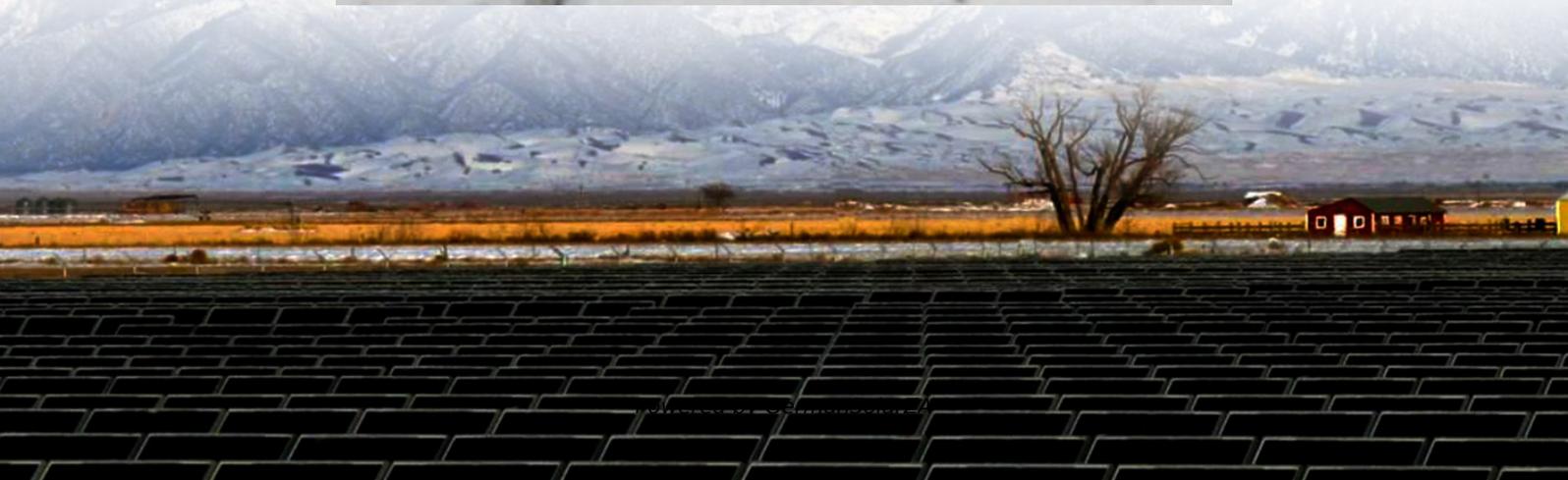
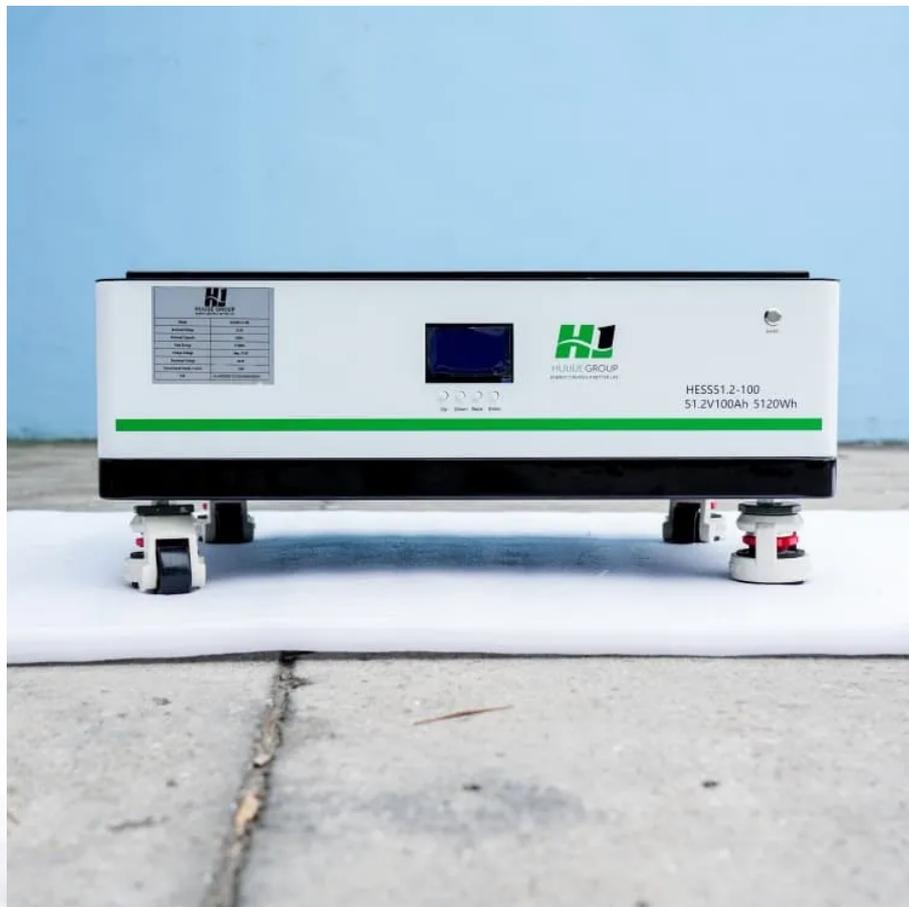


# Payback period for using solar storage power generation at telecom stations





## Overview

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How long does a solar PV system take to pay back?

Energy payback estimates for both rooftop and ground-mounted PV systems are roughly the same, depending on the technology and type of framing used. Paybacks for multicrystalline modules are 4 years for systems using recent technology and 2 years for anticipated technology.

How long does a solar energy payback last?

Based on a solar-grade feedstock, Japanese researchers Kato et al. calculated a multi-crystalline payback of about 2 years (adjusted for the U.S. solar resource). Palz and Zibetta also calculated an energy payback of about 2 years for current multicrystalline-silicon PV.

What is the energy payback time for thin film PV systems?

Knapp and Jester studied an actual manufacturing facility and found that, for single-crystal-silicon modules, the actual energy payback time is 3.3 years. This includes the energy to make the aluminum frame and the energy to purify and crystallize the silicon. What is the Energy Payback for Thin-Film PV Systems?

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What is energy payback?

Thus, the equation energy payback is simply: Energy used to make system (in kWh/unit area) ÷ Energy produced by system (in kWh/unit area-time). This is the equation that is used to calculate the numbers quoted in this FAQ and in the referenced studies.



## Payback period for using solar storage power generation at telecom



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