



Self-invested solar power generation





Overview

Self-investment yields potential long-term energy savings. Once your system is paid for (typically in 5 to 10 years), you will be producing free power. Self-consumption is 3-6 times more valuable than grid export in 2025: With feed-in tariffs dropping to 3-8 cents/kWh globally while retail rates remain at 25-45 cents/kWh, every kilowatt-hour consumed on-site delivers significantly higher financial returns than exported energy. Battery storage can. For solar adopters seeking the greatest return on their investment in energy capture and storage technology, self-consumption is the way to go. Made possible by the greater efficiency of today's solar-plus-storage systems, self-consumption is the ability to store energy created at peak times. As solar energy grows more popular among companies, many are confronted with a difficult decision: should they pursue a Solar Power Purchase Agreement (PPA) or self-invest in their own solar power system?

Both alternatives offer advantages and disadvantages, and determining which is the best match. According to a June 2025 report from Lazard, renewables like solar energy are the cheapest source of power on the market. This cost-effectiveness may present enticing investment opportunities for some but, like any venture, investing in solar power requires a solid grasp of the industry.



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Self-Supply , US EPA

Understand the fundamentals of generating your own electricity with solar power. Explore SCE's resources on system installation, benefits, and the Solar Billing Plan.

[How to Invest in Solar Energy: A Guide for Beginners](#)

This guide examines the benefits of solar energy and assesses various investment options for residential and commercial applications, including solar stocks, solar-based funds, and ...



[Solar PPA vs. Self Investment: Best Choice for Your ...](#)

Compare Solar PPAs and self-investment to decide the best solar financing option for your business. Save costs and maximize ROI.



Why self-generated energy is the future

Energy resource scarcity is a concerning issue. Around the world, companies are looking for opportunities to operate independently of the energy grid by generating renewable energy ...



[Generating Electricity at Home: Solar Basics , SCE](#)

Understand the fundamentals of generating your own electricity with solar power. Explore SCE's resources on system installation, benefits, and the Solar Billing Plan.



Self-Supply , US EPA

Because renewable electricity systems used by consumers to self-supply green power require up-front capital investment, consumers often use tax benefits and incentives at the local, ...



What is Solar Self-Consumption? Tips to Maximize Your Solar Energy ...

Solar self-consumption allows households and businesses to directly use the energy generated by their solar panels, reducing dependence on the grid. This article will explain what solar ...



[Living Off the Grid: How to Generate Your Own Electricity](#)



Understand how solar panels, wind turbines, batteries, inverters, and generators work together to produce a consistent electricity supply. Learn how to monitor power levels and operate ...



[Solar Self-Consumption: Getting the Most Out of Your Solar Investment](#)

Through this smart technology, home and building owners are better equipped than ever before to self-consume the vast majority of the power they produce and get the most out of their investment in ...



[Solar Self-Consumption Guide 2025: Maximize Your Solar ROI](#)

Complete guide to solar self-consumption: how it works, benefits, optimization strategies, and real-world examples. Maximize your solar ROI in 2025.



How to Invest in the Solar Industry

BIPV seamlessly blend solar elements with building materials, like solar windows and solar shingles. This integration not only generates clean energy but also aims to transform structures ...



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