

# **Expected ROI of residential solar battery project in Malaysia 2025**





## Overview

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This guide breaks down how to calculate your return on investment (ROI) for home solar systems in Malaysia, using real-world numbers and government programs like NEM 3.0. Your total system cost depends on the size of your installation. A typical 4kW system might cost RM20,000 for a small-to-medium.

Singapore, April 9, 2025 – Under its National Energy Transition Roadmap, Malaysia is aiming to phase out coal power by 2044 and achieve net zero by 2050. According to BloombergNEF's latest report Malaysia: A Techno-Economic Analysis of Power Generation, scaling-up renewables would be the most.

The Malaysian Budget 2025 has set the stage for significant growth in the renewable energy sector, particularly solar power. With a renewed commitment to transitioning towards clean energy, the government has extended several key initiatives that support the development of solar energy solutions.

The basic formula to calculate ROI is:  $(\text{Lifetime Savings} - \text{Net System Cost}) \div \text{Net System Cost} \times 100$  where lifetime savings represent the dollars you will save on electricity over the lifetime of the solar system. The net system cost using parentheses is the one your solar provider will give you.

The MyBeST initiative marks Malaysia's entry into utility-scale battery energy storage, with four sites (likely in Perak and Negri Sembilan) each hosting 100MW/400MWh BESS assets. Project Value: ~RM300m per site, requiring 5–7 acres each. Tender Status: 30 bids submitted; award expected by Q4 2025.



NEM Program extended to Jun 2025 for solar system installation in Malaysia  
Malaysia's Budget 2025 has set a clear path toward a greener and more energy-efficient future. With several initiatives focused on renewable energy and electric vehicles (EVs), there's never been a better time to invest in. How has the Malaysian Budget 2025 impacted solar energy?

The Malaysian Budget 2025 has set the stage for significant growth in the renewable energy sector, particularly solar power. With a renewed commitment to transitioning towards clean energy, the government has extended several key initiatives that support the development of solar energy solutions across the country.

What is the solar return on investment (ROI) in Malaysia?

The solar return on investment (ROI) in Malaysia can vary depending on several factors, including the location, size, and efficiency of the solar panel system, as well as the cost of electricity in the area. Generally speaking, the solar return on investment in Malaysia can range from 5% to 20%, with an average of around 10%.

Are solar and batteries more cost effective for Malaysia?

“Our report shows just how much more cost effective solar and batteries can be for Malaysia compared to continued reliance on thermal power plants,” said Felix Kosasih, BNEF's Indonesia and Malaysia lead analyst and co-author of the report.

How much does solar energy cost in Malaysia?

Malaysian households spend around RM250–RM500/month on electricity. With solar, you can offset up to 75% of your bill, depending on your usage and roof potential. Under Net Energy Metering, excess energy is sent to the grid for credit. This further boosts ROI and shortens your payback period.

How can Malaysia improve the financial viability of solar energy?

Additionally, the Malaysian government has implemented various incentives and programmes to encourage the adoption of solar energy, such as the Net Energy Metering (NEM) programme and the Green Investment Tax Allowance (GITA) scheme, which can help improve the financial viability of investing in solar.

Why should you invest in solar panels in Malaysia?

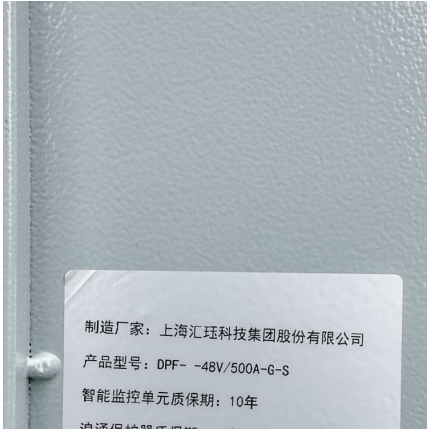


Incorporating solar panel into your home or business is not just about reducing your electricity bill, it's about making a lasting investment in the future. With the solar initiatives in Malaysia's Budget 2025, the government has made it clear that renewable energy, particularly solar, is a national priority.



## Expected ROI of residential solar battery project in Malaysia 2025

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### [Solar Installed System Cost Analysis , Solar Market ...](#)

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has ...

### **Solar panel payback period and ROI: How long does it take for solar**

In the United States, the average payback time for a home solar installation is about 10 years. But the payback time and ROI is different for everyone. The time it takes an individual solar ...



### [Malaysia SelCo Program 2025: What Are The Benefits](#)

Malaysia SelCo Program 2025: What Are The Benefits The Malaysian government has recently announced transformative improvement for the Solar Energy Self ...

### [How to Calculate ROI for Residential Solar in Malaysia](#)

This guide breaks down how to calculate your return on investment (ROI) for home solar systems in Malaysia, using real-world numbers



and government programs like NEM 3.0.



[How Much Does it Costs to Own a Solar Panel in ...](#)

The cost of owning a solar panel system in Malaysia can vary depending on the number of factors; the size of the system, type of panels used, location of the installation, and the maintenance to return to investment (ROI).



**Tenaga Nasional Berhad**

Embracing the global call for sustainability, TNB has embarked on an ambitious journey towards renewable energy and energy transition. At the forefront of this movement are TNB's ...



[Solar Panel Costs, Batteries & Incentives \(2025 Guide\)](#)

Is solar worth it in 2025? Our complete guide covers costs, incentives, batteries, and choosing an installer. Learn if your roof is ready and discover solar tiles.





### [Solar For Rakyat Incentive Scheme \(SolaRIS\)](#)

Solar For Rakyat Incentive Scheme, SolaRIS is an incentive programme launched by the Government aimed at attracting new installations of solar photovoltaic (PV) system amongst residential customers to increase the ...



### **The Future of Solar Batteries: What to Expect in 2025 ...**

Ready for energy independence? Dive into the future of solar batteries and power outages. Explore the latest solar battery innovations and empower your home and business today.

### **Maximizing Solar ROI: How to Speed Up Your Payback Period in 2025**

Today's solar economics create compelling business opportunities, with payback periods as short as 3.67 years in optimal markets. Our comprehensive analysis examines ...



### [Price of Solar Panel Installation in Malaysia](#)

Find out how much solar panels cost in Malaysia. Read our concise guide to explore the pricing and installation process for solar panels in residential, commercial, and industrial settings.





### **Solar Panel ROI: What To Know Before Installing - Forbes Home**

Curious about installing solar panels but aren't sure about your solar ROI? We'll tell you what you can expect from a solar panel return on investment.

### [New LSS projects to fuel up to RM18bil contracts](#)

KUALA LUMPUR: Malaysia's upcoming large-scale solar (LSS) projects, including LSS5, LSS5+, and LSS6, are projected to unlock contracts valued between RM15 billion and RM18 billion ...



### [A Look into Malaysia's Budget 2025 for Solar Energy ...](#)

Malaysia's Budget 2025 has set a clear path toward a greener and more energy-efficient future. With several initiatives focused on renewable energy and electric vehicles (EVs), there's never been a better time to invest in ...

### [Maximising the ROI of Solar Panels and Batteries in ...](#)

As more Australian home and business owners recognise the benefits of solar energy, one question stands out: 'How can I maximise the ROI of solar panels and batteries?' With energy prices projected to climb even higher ...



### [Solar Return On Investment In Malaysia](#)

The solar return on investment (ROI) in Malaysia can vary depending on several factors, including the location, size, and efficiency of the solar panel system, as well as the cost of electricity in the area.



### [How to Maximize ROI from Solar Energy in Malaysia](#)

In Malaysia, the typical solar return on investment (ROI) can range from modest to outstanding, depending on how well you plan and use your system. Many homeowners and businesses see ...



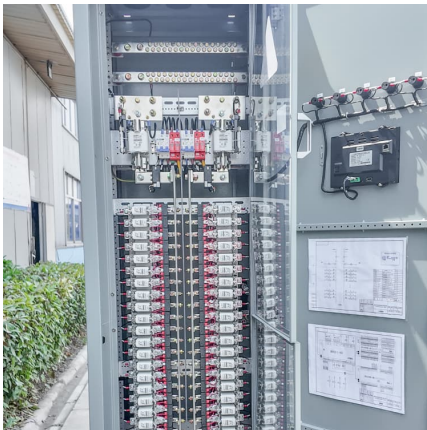
### [Solar and Batteries can Meet Malaysia's Growing ...](#)

"Our report shows just how much more cost effective solar and batteries can be for Malaysia compared to continued reliance on thermal power plants," said Felix Kosasih, BNEF's Indonesia and Malaysia lead analyst and ...



### [Solar Panel ROI Guide \(2025\) . ConsumerAffairs®](#)

Solar panel ROI is the money you save over the panels' lifetime compared to their initial cost. Learn how to calculate it and what factors impact it.

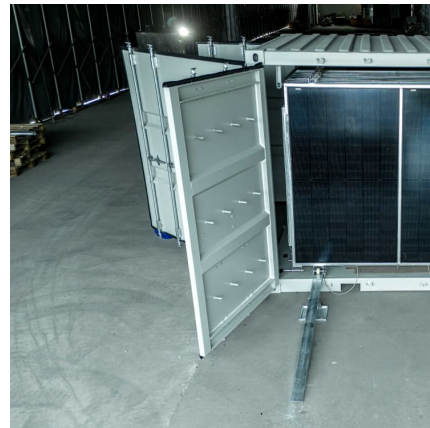


### **Malaysia Renewable Energy Outlook 2025-2027: Solar & Battery ...**

The sector is set to benefit from the national green policy, with large-scale solar (LSS) projects and battery energy storage systems (BESS) driving investment and ...

### [Hybrid Solar System Malaysia: Affordable Energy Savings](#)

Definition & Components A hybrid solar system combines the benefits of both on-grid solar systems and off-grid systems, giving you flexibility and energy security. It consists ...



### **Retour sur l'investissement de l'énergie solaire: Quel est le ROI ...**

The commercial projects often have higher percentage rates of solar returns than on average; ainsi, le what is an average ROI on commercial solar is often around 12 à 20%.

### [How Long Does It Take to Break Even on a Solar](#)



### Battery

Discover the average solar battery payback period in 2025. See how fast you can recoup your investment and how Solar Power Nation can help you maximise ROI.



### Is Residential Solar Power Still Worth It in 2025?

Conclusion: Is Solar Still Worth It in 2025? Residential solar power remains a worthwhile investment in 2025, thanks to declining costs, improved technology, and ongoing ...

### Why Early Solar Adopters Could Benefit the Most from Malaysia's ...

Introduction: A New Dawn for Residential Solar in Malaysia On 31 August 2025, Malaysia will officially announce its new residential solar program, a move eagerly anticipated by ...



### Solar Carport Cost in 2025 , Pricing Guide for Businesses

Discover the average solar carport cost in 2025. Learn key cost factors, and how to save on installation. Ideal for homes and businesses.



### **Solar Power Return on Investment: What Is the ROI on Solar ...**

That's why people who calculate solar power return on investment carefully often find solar to out-return traditional investments in terms of both stability and predictability. Factors Affecting Solar ...



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