

# BEGINNERS GUIDE



2025

**Your Path to Smarter, Cleaner Energy in New Zealand**

# NEW ZEALAND IS A GREAT PLACE FOR SOLAR

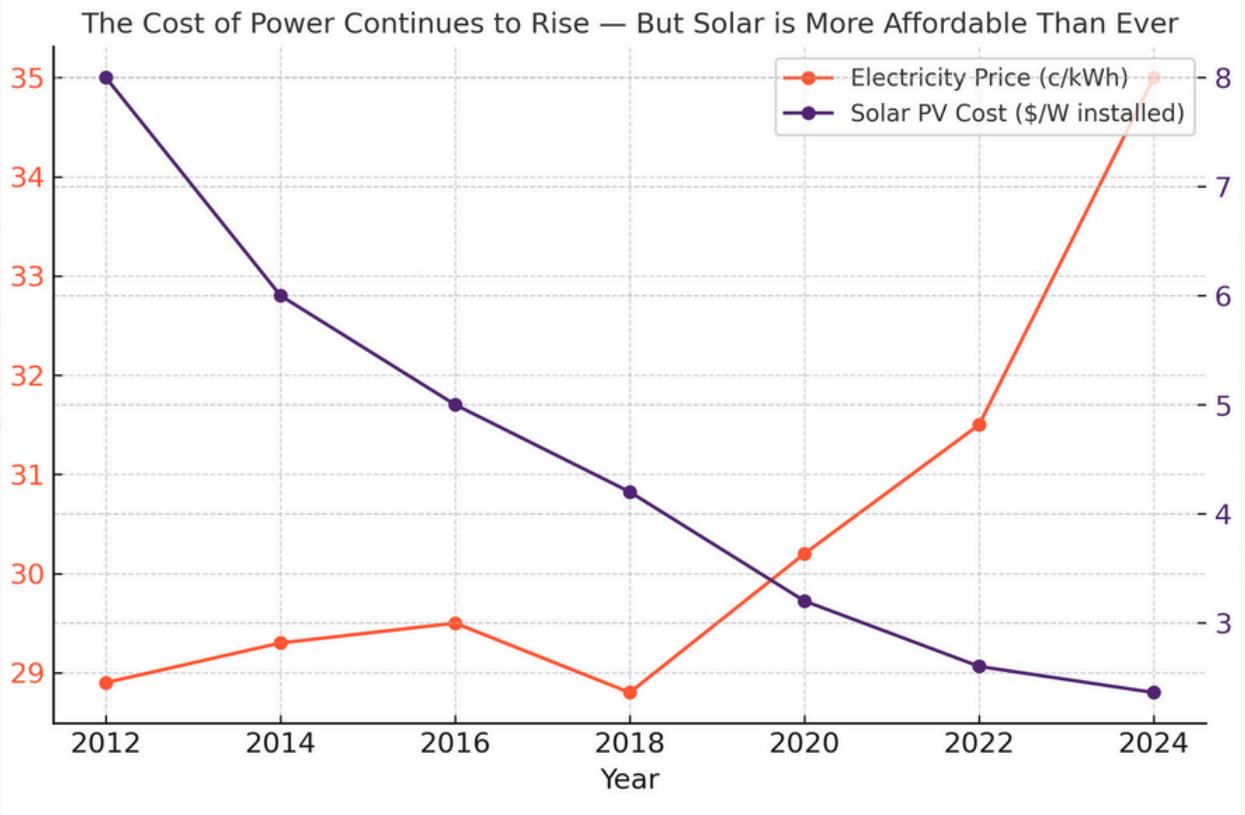
New Zealand is an ideal place for solar:

**Abundant Daylight Hours** – Most regions enjoy 1,700–2,100 hours of sunshine annually, with some areas exceeding 2,300 hours, ensuring reliable solar production across the country.

**Mild Climate for Panel Efficiency** – Cooler average temperatures compared to many sunny countries help solar panels operate more efficiently, maintaining higher energy output throughout the year.



# THE COST OF POWER CONTINUES TO RISE BUT SOLAR IS MORE AFFORDABLE THAN EVER



# THE BENEFITS FINANCIALLY



## 01 Lower Energy Costs

Produce your own power and reduce—or even eliminate—your electricity bills.

## 02 Price Protection

Lock in your energy costs and avoid future price hikes.

## 03 Strong ROI

1. Enjoy returns that often outperform traditional savings or investments.

## 04 Increase Property Value

Studies in NZ show that homes with solar sell for more—often tens of thousands above similar homes without solar.

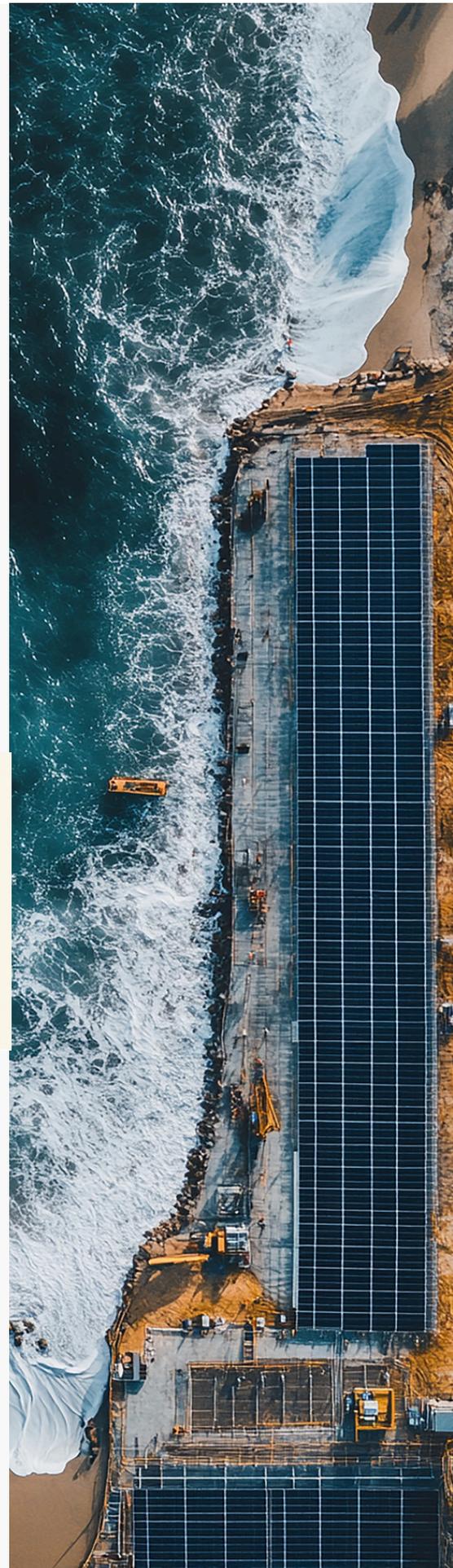
# SOLAR HELPS THE ENVIRONMENT

Solar has no emissions. It just silently generates pure, clean energy.

A typical solar system in New Zealand avoids 3-4 tonnes CO<sub>2</sub>



Switching to solar reduces your dependence on fossil fuels, helping to cut harmful greenhouse gas emissions and air pollutants. Every solar system installed is a step toward cleaner air, a stable climate, and healthier communities—ensuring a brighter future for generations to come.



# HOW A SOLAR SYSTEM WORKS



made up of three main components: the solar panels, the inverter, and—if you choose to add it—a battery for energy storage. Together, they form a reliable, efficient, and sustainable power solution for your home or business.



## Solar Panels

Mounted on your roof, solar panels capture daylight and turn it into direct current (DC) electricity. High-quality panels are designed for maximum efficiency, durability, and performance in all New Zealand weather conditions.



## Inverter

The inverter is the “brain” of the system. It converts the DC power from your panels into alternating current (AC) power, which your home’s appliances can use. A good inverter ensures consistent, safe, and optimal performance.



## Battery (Optional)

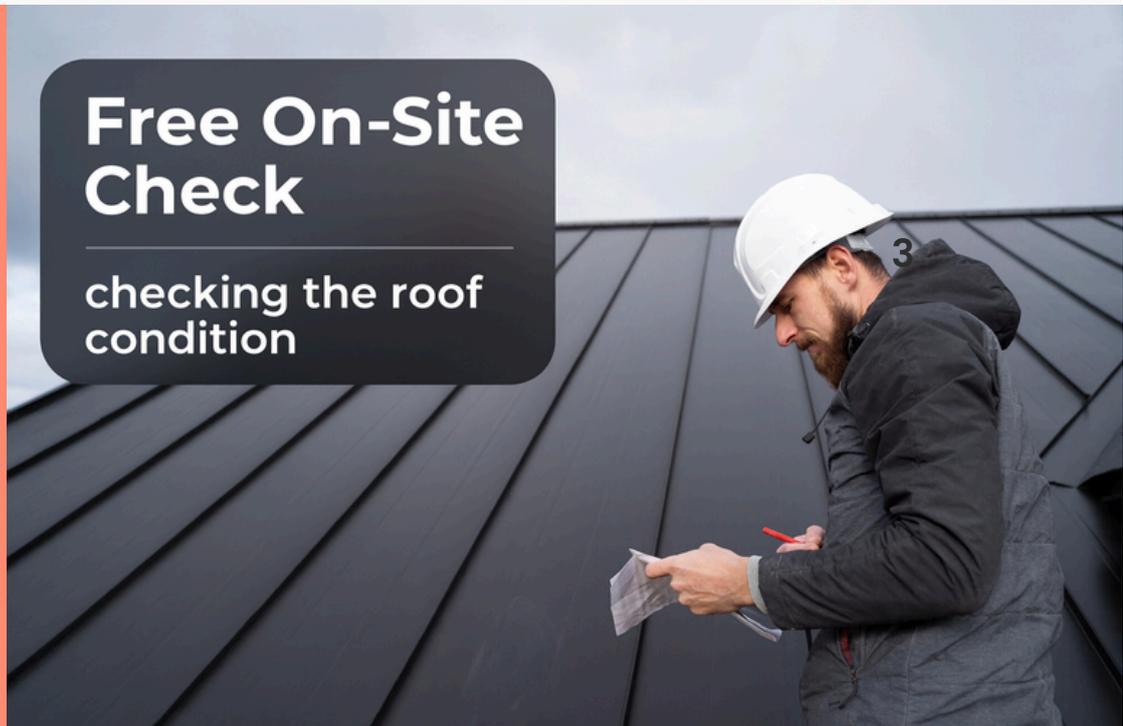
Adding a battery lets you store surplus energy for use at night or during power outages. It increases your energy independence and helps you make the most of every unit of clean electricity you produce.

# HOW MANY PANELS DO YOU NEED?

The number of solar panels needed to power your home depends on key factors such as your electricity usage, consumption patterns, and roof size. **Solar Republic Offer:**

## Free On-Site Check

checking the roof condition



1



### electricity usage

Your average daily and annual power consumption is the starting point for determining how much solar capacity you need. Higher usage means more panels to meet demand.

2



### consumption patterns

When you use electricity matters. Households using more power during daylight hours can take greater advantage of solar generation without relying on the grid.

3



### roof size

The available roof space limits how many panels can be installed and influences system layout. A larger roof allows for more capacity, while smaller roofs may require higher-efficiency panels.

# MOST ROOFS TYPES ARE SUITED FOR SOLAR SYSTEMS

## METAL (LONGRUN) ROOFING

Durable, lightweight, and one of the most common choices for Kiwi homes. Its regular ridges make it straightforward for solar panel mounting.

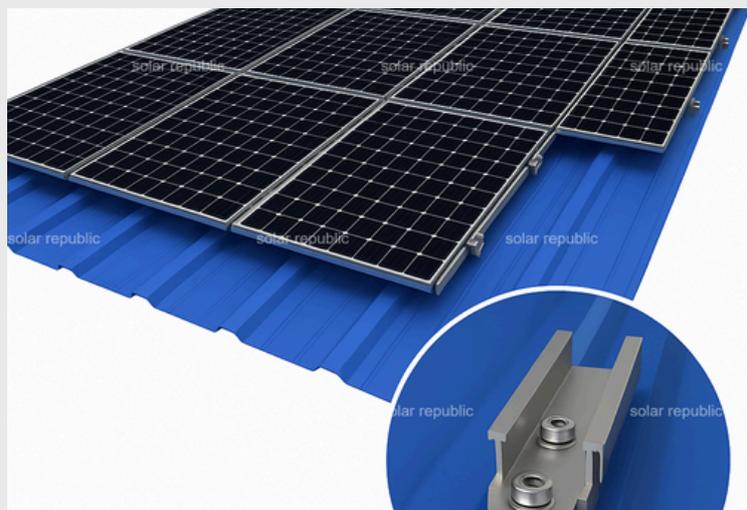
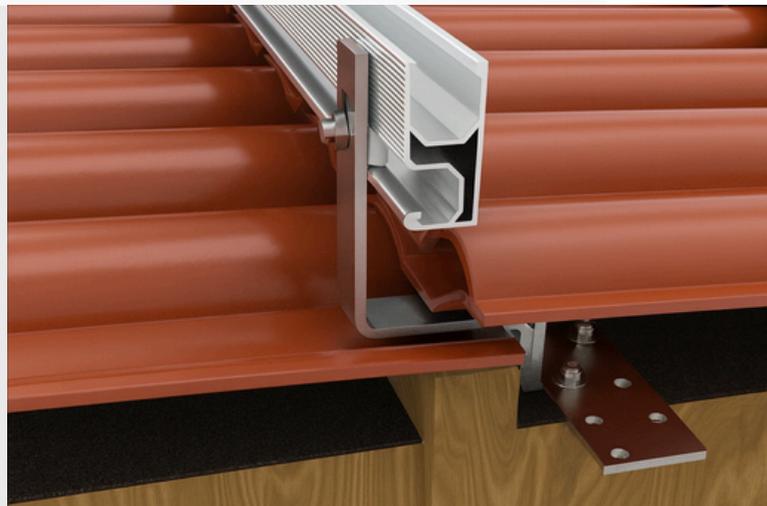
## TILE ROOFING

Includes concrete and clay tiles, offering a classic look and strong weather resistance. Installation requires extra care to avoid damaging tiles.

## MEMBRANE ROOFING

Often used on flat or low-pitch roofs, typically found on modern builds. Allows flexible panel placement but may require angled frames for optimal sunlight.

Roof orientation, pitch, shading, and structural strength all play a role in how well your solar system will perform. To get accurate advice and the best design for your home, we recommend booking an on-site assessment with Solar Republic



# FAQS

## HOW LONG DO SOLAR PANELS LAST?

Most quality solar panels are designed to last 15–25 years, with warranties to match, ensuring reliable performance and long-term energy savings.

## DO I NEED A BATTERY

A battery is not essential for a solar system, but it can be a good idea if you want to store excess solar energy for use at night or during times of high electricity demand. Batteries can also help to improve the reliability of your solar system in the event of a power outage.

## ANY SUBSIDIES?

There are no nationwide government subsidies for solar panel installations in New Zealand, several options can help reduce the upfront costs and make solar more accessible. These include competitive buy-back rates from electricity retailers for excess solar energy, green loans with favorable terms from banks

## AVERAGE SYSTEM COST

The average cost of a residential solar system in New Zealand ranges from NZD 12,000 to 18,000, depending on size and components. At Solar Republic, our standard packages start from just NZD 8,999 fully installed, including premium panels, a quality inverter, and complete grid connection.

# HOW TO CHOOSE YOUR SOLAR INSTALLER

Experience  
Reputation

Site Visit &  
Assessment

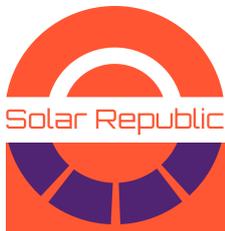
Product Quality  
& Warranties

Certifications &  
Memberships

After-Sales  
Support

Look for a company with proven local experience, quality products backed by strong warranties, and recognised industry certifications. A good installer will visit your home for a detailed assessment, design a system tailored to your needs, and provide clear after-sales support. With these boxes ticked, you can be confident your solar investment will perform reliably for years to come.





# THANK YOU

## We are ready to assist you

We ensure your transition to solar is seamless and rewarding.  
Choose Solar Republic for a smarter, greener future.

**Book Now For Free On-Site Assessment**



027-376-5955



<https://solarrepublic.co.nz>