



Grid Connected Solar Systems

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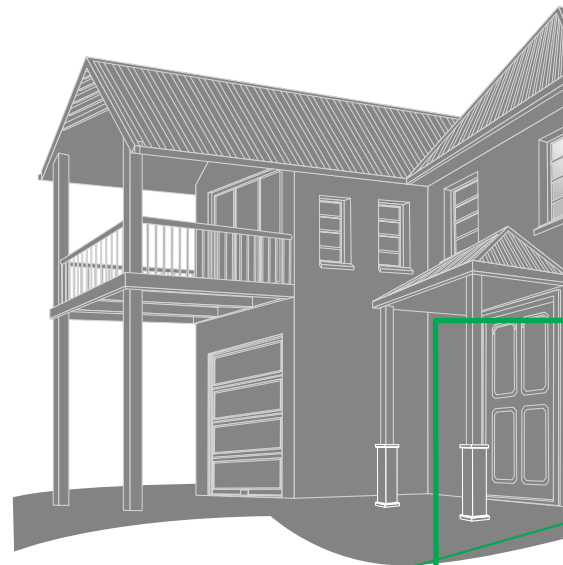
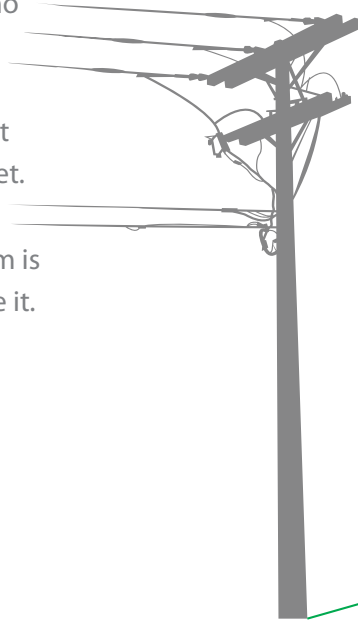
Our grid connected solar systems are specifically designed for New Zealand and Australian buildings and for a 25-year maintenance-free life. They are easily installed on residential and commercial buildings, have an exceptionally long working life, and require no inputs other than sunlight. They are completely silent, motionless and clean.

Our solar systems will reduce or eliminate your long term electricity expense, add value to your home, building, or business, and help keep New Zealand clean.

Stay Connected

Your building stays connected to the grid so you always have electricity available when you need it. Batteries are not required and there are no limitations.

You can install a system size that best suits your home and budget. If at any time you need more electricity than your solar system is generating, the grid will provide it.



Inverter

The inverter manages everything. It efficiently converts solar electricity for use in your building and controls the flow of electricity between your home and the grid. It also stores and displays this information for you to view.



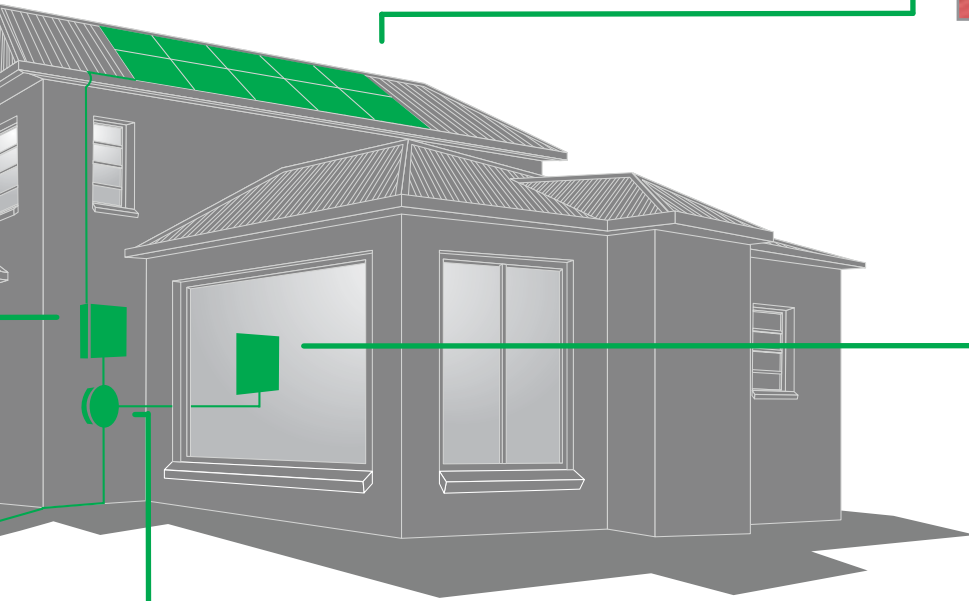
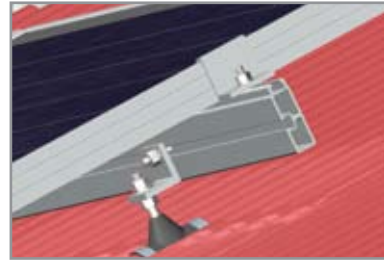
Capture Sunlight

Solar panels generate clean electricity every day, from sunrise to sunset. No moving parts, no emissions, no noise, and no fuel. Beautifully simple, reliable, and efficient.



Integrate

Our unique proprietary mounting frame is designed especially for New Zealand homes and weather conditions. We made sure it was approved by New Zealand Metal Roof Manufacturers and the Department of Building and Housing.



No Changes

You will not have to make any changes to your building's wiring or appliances. Our solar system will seamlessly integrate with the existing electrical system.

Simply sit back and enjoy using clean energy from the most abundant source available - the sun.

Metering

Electricity meters measure the flow of electricity into your home, and out to the grid. At the end of each billing period, your bill will simply be the amount of electricity you used less the amount your solar system generated.

Our solar systems are better

Clean Energy

It is true that some solar systems are cleaner than others. That is why we have made sure we provide high quality and reliable solar systems with industry leading environmental credentials.

Our solar panels have the smallest carbon footprint and quickest energy payback time in the industry. Our panels are shipped with minimal recyclable packaging made from recycled material. We also source and build many of our components here in New Zealand to minimise shipping and transportation costs.

Performance

Our solar panels have the tightest power tolerances in the industry, so you get the performance you expect. When tested against our competitors side by side under the same conditions, our solar panels have been proven to produce more electricity.

Smart Investment

Our solar systems are a great investment. They will reduce or eliminate your electricity expense and add value to your home or building. At current energy prices you will earn after tax annual returns starting at around 4%, and reach 100% payback within the first 10 years of owning your system. With warranty supported performance for 25 years you will enjoy many years of free electricity.

Easy to Install

We provide completely pre-engineered solar systems that are plug and play, scalable, and very efficient to install. This helps us achieve one of the lowest installed system costs in New Zealand without sacrificing the outstanding quality of our products.

NZ Mounting Frame

We use a proprietary mounting frame designed specifically for New Zealand's harshest conditions. Our competitors typically use mounting systems designed for Europe or North America where conditions are very different. Our mounting system has been approved by the Department of Building and Housing, and the NZ Metal Roof Manufacturers Association.

Reliability

Our systems are designed specifically for New Zealand conditions and are sold with a 5-year warranty. Our solar panels are guaranteed to produce electricity for 25 years, and we use only the most reliable and efficient inverters on the market. When our unique system components are combined with our specially designed mounting frame you can not find a more robust, reliable, and better supported solar system on the market.

Solar Power

Does it make financial sense?

Yes. Our grid connected solar systems will reduce your electricity expense and add value to your home or building. Measuring the financial value of both of these qualities is relatively straightforward, and the methods and results are widely supported by both the electricity industry and the Real Estate Institute of NZ.

The combination of these two factors provides your return on investment. Our grid connected solar system will produce annual after tax returns starting at around 4%, and reach 100% payback within 10 years of installation.

Reduced electricity expenses.

A well designed solar system will last in excess of 25 years with little maintenance. Each year the system will produce a predictable amount of electricity. Since sunlight is the only input needed you will never have to pay for the electricity produced by your solar system.

NZ electricity prices are already high and rising rapidly. This year, your solar system may save you \$500 in electricity bills. In 5 years it may be \$750. In 15 years it may well be \$1500.

Added value to your home or building.

Grid connected solar systems add value to buildings in direct relation to the amount of money they save in electricity bills each year. Studies show that every \$1 saved in electricity bills adds \$15 dollars in capital value. If your solar system saves \$500 in electricity bills, it adds \$7,500 to the value of the building. Several other studies show that buildings with solar are both more desirable and appreciate faster on the real estate market.

These qualities make grid connected solar an excellent financial investment.



Carbon Offsets

Keeping NZ clean and green.



Our grid connected solar systems are one of the cleanest forms of electricity production available.

In New Zealand, using solar power will immediately and directly offset the need for

utility scale generation and transmission infrastructure. Grid connected solar systems complement New Zealand's clean hydroelectric power sources and produce credible carbon offsets.

For these reasons and more, solar electricity is an uncompromisingly clean, reliable, and sustainable long term source of electricity.

It is also true that some solar systems are cleaner than others. It takes energy to make solar panels, build a system, and procure other necessary components. That is why ecogise has made sure we provide high quality and reliable solar systems with industry leading environmental credentials.

ecogise solar systems are clean energy you can rely on.

Investments in renewable energy sources are high quality carbon offsets.

New Zealand solar systems produce CO₂ offsets at the rate of 0.62 kg / kWh. Here's an example;

- Our 5.70 kW solar system will produce approximately 8,000 kWh of electricity per annum in Auckland. This amount of clean energy offsets 5,000 kg of CO₂ each year.
- With warranty supported performance for 25 years this system is guaranteed to offset over 125,000 kg of CO₂.
- That's the equivalent of permanently removing 1.5 cars from New Zealand roads, or planting almost 2 Ha of regenerating New Zealand native forest.



Technical Details

Grid Connected Solar Systems

	System Size (Watts)	Modules	Electricity Generation (kWh pa)	Carbon Offset (kg pa)	Roof Area (m ²)
ES 1.26 GTS					
	1,260	7 x 180W	1,789	1,110	10
ES 1.44 GTS					
	1,440	8 x 180W	2,045	1,268	12
ES 1.62 GTS					
	1,620	9 x 180W	2,300	1,426	13
ES 1.80 GTS					
	1,800	10 x 180W	2,556	1,585	15
ES 2.16 GTS					
	2,160	12 x 180W	3,067	1,902	18
ES 2.52 GTS					
	2,520	14 x 180W	3,578	2,219	21
ES 3.60 GTS					
	3,600	20 x 180W	5,112	3,169	30
ES 4.32 GTS					
	4,320	24 x 180W	6,134	3,803	36
ES 5.40 GTS					
	5,400	30 x 180W	7,668	4,754	45
ES 10.8 GTS					
	10,800	60 x 180W	15,336	9,508	90

Solar generation is obtained using Auckland data and can vary depending on location. Our systems are designed to be installed at a 30° tilt angle facing north without shading. Weather patterns can increase or decrease output. Carbon offset value is measured using the NZ Marginal Emissions Factor of 0.62 kg/kWh. ecogise solar systems are scalable and other system sizes are available to order.

Warranty Information

Complete System	Solar Panels	Inverter
5 years (10 year optional)	5 year workmanship 25 year limited power	5 years (10 year optional)

Standards and Compliance

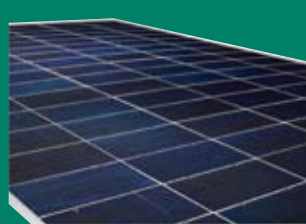
Complete System	Solar Panels	Inverters	Mounting
AS/NZS 5033-2005 AS 4777.1-2005 AS/NZS 3000-2007	IEC 61215 TUV Safety Class 2	AS 4777.2-2005 AS 4777.3-2005	NZS 3604-1999 AS/NZS 1170.2-2002

About ecogise

We are Alternative Energy Solutionists, offering specialist advice and creating complete packages for alternative power systems and sustainable energy efficiency.

Borne of our passion for the environment and a vast array of knowledge in electrical and alternative energy, as well as being able to source cutting edge products from around the world, we take pride in our ability to offer efficient energy solutions to our customers.

By working closely with our highly experienced product suppliers from around the world, we have the ability to offer the whole package to our customers. By this we mean a one stop shop where we are able to advise, create and install a quality alternative energy system to meet your requirements.



Products and Services

- Design and installation of compact, efficient systems for marine and mobile homes
- Grid Connected Solar Systems - Residential and Commercial
- New Zealand made Solar Water Heating Systems
- Installation Training and Accreditation
- Off Grid Power Systems

Some important factors to consider when looking at electrical energy efficiency in your home, regardless of your situation, are water heating, space heating and the efficiency of your household appliances. As your water heating can be a major user of energy, we actively promote our Solar Water Heating, approved to AS/NZS standards 2712 and offer advice on efficient home heating, refrigeration, lighting and so on.

On top of this is our core business in providing alternative energy installations and products throughout New Zealand. With an ever-increasing need to reduce the effects we are having on our environment, our carbon footprint - and the growing shortage of mains grid electricity supply, we see alternative energy as the way forward for a sustainable future.

www.ecogise.co.nz

Lovin' the power

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