



**HOW TO CHOOSE**

**THE RIGHT**

**SOLAR  
SYSTEM**

**FOR YOUR HOME**

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LEARN THE POWER OF SOLAR.

**SolarRun**



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# MAKE SURE YOU GET THE RIGHT SOLAR FOR YOUR HOME

When our franchisee Dilan was working with Nirav Modi on his home in Truganina, he knew that a “**value for money**” system was a must and that roof-space was limited.

Dilan chose JA Solar Panels and a Goodwe Inverter and Nirav was delighted with the result.

You might be wondering “**How did Dilan choose the right panel, the right brand?**”

In this ebook we are going to cover:

- › Inverters
- › Poly panels, mono panels, bifacial panels,
- › Standard and half cell panels.
- › Reputations and warranties of different brands



## WHAT TO EXPECT

After reading this eBook you will know which brands are a good fit for your home. More importantly, you will know enough about solar panels and inverters to impress friends at parties.

# THE RIGHT SOLAR SYSTEM WILL REDUCE YOUR ENERGY BILLS

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But how do we know what the right system is? You may get different answers, but ultimately it is about the fit for your home.

**The right solar is the solar that fits your home.**

Here at Solar Run we use a few simple questions and this chart as a tool and a starting point every time we recommend a system to anyone.

For now, let me ask you a few of those questions:



Do you have a  
Large roof or a  
small roof?



High or low  
energy use?



Is your roof  
shaded?

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**YOU CAN RELY ON OUR FRANCHISEES TO  
ALWAYS RECOMMEND THE BEST SOLAR  
TECHNOLOGY AND BRANDS FOR YOUR HOME.**

# CHOOSING THE RIGHT SYSTEM

			
 Large Roof	+  Small Family	 Poly	or  Mono
 Large Roof	+  Large Family	 Mono	
 Small Roof	+  Any Family Size	 Mono	
 Any Roof	+  Performance	 Bi-Facial	 Add Batteries
 Any Roof	+  Shading	 Half Cell	or  Optimisers

HOW TO USE THIS CHART

First up: what size roof do you have?

Have a look at the options on the left. Once you have found your roof size have a look at the second column.

How many people live in the house?

We want to know how much energy you use so we can work out how if you need a small or large solar system.

## DO YOU HAVE SHADING OR NEED A PERFORMANCE SYSTEM?

The options at the bottom of the chart give you a guide towards which technologies are best for your home.

# HOW TO GET THE BEST FIT SOLAR



 Small Roof	 Mono
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So, when Dilan was working with Nirav, he knew that **roof-space was limited**. Poly panels would be a poor choice as they produce less power for the same sized panel; so to get the most effective system they would be using 'Mono' panels.



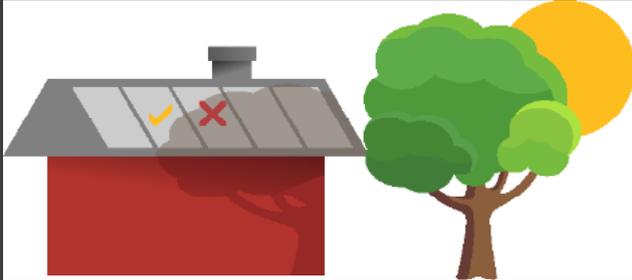
 Large Roof	 Mono	 Poly
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However, if you have **a lot of roof space**, like this property in Lysterfeild then it can be cost-effective to use poly panels. However, in this case, the owners decided to go with mono as they wanted to get more power from their solar system.

If the long term performance of your panels is most important to you then bifacial is a solid option and you could also consider battery storage. **If your roof has some amount of shading** you should consider half cell panels. Optimisers (and micro-inverters) can also help with shading, however, they cost a bit more.

## WHAT IS SHADING?

Trees, objects and buildings that shade solar panels can effect the performance of your solar system.



# SOLAR INVERTERS

Let's start with Inverters, the heart of your solar system. While there are hundreds of panel brands there are only a few inverter brands worth mentioning.

For inverter brands, we look at **Reputation, Warranty, Remote Monitoring, and Noise.**



## WHY DO WE TYPICALLY RECOMMENDS GOODWE?

To understand why we need to look at what the other 2 leading brands SMA and Fronius offer.

All 3 have a great reputation.

All 3 offer an increased 10-year warranty

All 3 have great remote monitoring apps.

### THE DIFFERENCES ARE:

**Goodwe and SMA** inverters are relatively quiet

VS

**Fronius** inverters are noisy (50dB vs 25dB)

### SO WHAT DOES IT COME DOWN TO?

Goodwe provides unparalleled value for money.

# INVERTERS COMPARISON

BRAND	REPUTATION	INVERTERS WARRANTY	NOISE	MONITORING
				
				
				
				
				

## REPUTATION

We give a thumbs up when a brand is both well known and has a good product.

## WARRANTY

The best warranties are for 10 years. A standard warranty is 5 years.

## NOISE

Inverters make a bit of noise, even the quietest one. An inverter rated at 25 decibels (dB) is quite quiet. An inverter rated at 50dB is more than twice as noisy... its very noisy.

## REMOTE MONITORING

We consider “ease of setup”, “ease of use”, and features.

# SOLAR PANELS

## MONO, POLY, BI-FACIAL

### HOW DO YOU TELL A MONO FROM A POLY?



**Inconsistent blue colour.**  
A result of a cheaper manufacturing process

**Consistent jet black colour.**  
More efficient panels that are more expensive to produce.

### WHAT IS A BIFACIAL PANEL?

When we look at the back of this mono panel we can see its white. On this Bifacial panel we can see the cells. Bifacial panels convert sunshine from the front and the back.



# HALF CELL SOLAR PANEL

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## NEW SOLAR PANEL TECHNOLOGY

With standard panels, shading on the lower portion of the panel can stop the panel from working.

In the half cell, the cell is split in two **and** the panel is split in two. If half the panel is shaded then the other half keeps working.



## QUESTION

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WHAT IS THE RIGHT INVERTER,  
PANEL, AND BRAND FOR YOUR HOME?

## TRICK QUESTION.

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IT IS THE ONE THAT BEST FITS YOUR HOME.



# WHICH SOLAR PANEL BRAND IS THE BEST BRAND?

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We compare the Reputations.

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We summarise the Warranties they offer.

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We rate the manufacturing process.



These charts provide a “Quick Reference” of the Top 10 Solar Panel Brands, collectively known as the “Silicon Module Super League (SMSL)”. The SMSL Brands are in a league of their own. They make, ship, and have installed far more panels than other manufacturers.

Beyond the SMSL Top 10 we mention a few other “Tier 1” solar panel brands that either provide amazing quality, value for money, or we feel lack quality.

# SILICON MODULE SUPER LEAGUE (SMSL) BRANDS

BRAND	REPUTATION	WARRANTY	MANUFACTURING
			
			
			
			
			
			
			
			
			

# NOTABLE TIER 1 BRANDS

BRAND	REPUTATION	WARRANTY	MANUFACTURING
 LG			
			
			
			
			
			
			
			

# GET IN TOUCH

1300 076 527

## QUICK TIP:

BE CAREFUL IF: A SOLAR COMPANY OFFERS YOU POLY PANELS WHEN YOU NEED MONO PANELS.

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