



Your Energy Smart Home



Introduction

Since 2013, Energis has built a highly technical team and reputation in installing solar and alternative energy for Australian households. We've combined our years of experience to write this guide for home owners as they start to consider the energy future of their home.

With increasing benefits and savings to be made by switching to renewable energy, it's no wonder that many have and many more households are considering changing the way they generate, consume and share energy.

We have written this guide for owners of both existing and new builds in metro and regional Victoria, to learn about the different types of alternative energy solutions and how Energis can help you arrive at the right decision and make the right investment.

Our team of energy specialists are available for you to discuss how you can make the shift to smarter energy, and start seeing more savings.

Email: sales@energis.com.au

Call: 1300 782 217

1.1 Why more homes are switching to renewable & alternative energy

Save on electricity bills

Electricity prices will continue to increase even with the uprise of renewable energy. This has to do with the cost in maintaining the existing grid infrastructure and demand from those who still rely on it. The only way for a home to save on electricity bills is to make compromises to lifestyle or make the switch to smarter energy and invest in renewable energy and alternative energy solutions.

Reduce dependence on the grid

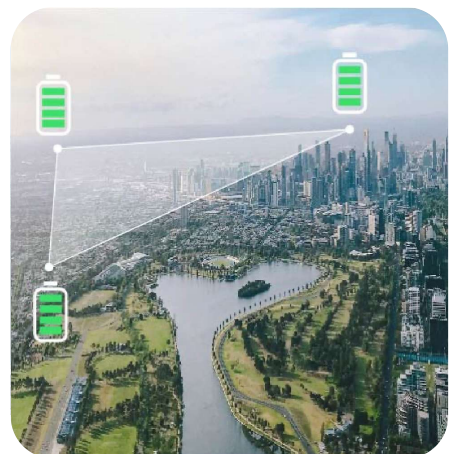
Generating your own energy means that you can rely less on the grid. In addition, for regions susceptible to blackouts from extreme weather fluctuations or natural disaster, switching to smarter energy means potentially avoiding power outages— all ontop of reducing electricity costs.

Do your part in slowing down climate change

We all know that global temperatures are rising and the affects of it so far. The benefits of using solar energy have been campaigned repeatedly for a long time, and with a purpose. Utilising it to generate power can greatly reduce the emissions of CO2 by decreasing the demand for fossil fuels. This will minimise greenhouse gas emissions and can reduce our carbon footprint.

Prepare for an energy sharing future

Microgrids are a rapidly expanding sector of the energy business, representing a paradigm shift from remote central station power plants toward more localised, distributed generation—especially in cities, communities, and campuses. Microgrids provide efficient, low-cost clean energy. They can enhance local resiliency and improve the operation and stability of the electric power grid. They provide dynamic response, unprecedented for an energy resource. These solutions are already rolling out to communities and will likely be the future. By switching to smarter energy now, you will be preparing your home for this shared energy economy future.



Contents

01 Introduction

Why more homes are switching to renewable & alternative energy	2
----------------------------------------------------------------	---

02 How to switch to smarter energy

An Overview	5
-------------	---

Solar Power	6
-------------	---

Home Automation	7
-----------------	---

Energy Storage	8
----------------	---

Electric Vehicle	9
------------------	---

Brands We Install	10
-------------------	----

03 Purchasing Options

Buy Outright	12
--------------	----

Payment Plan	12
--------------	----

Power Purchase Agreement	12
--------------------------	----

04 Meet Energis

About Energis	14
---------------	----

Customer Testimonials	15
-----------------------	----

02

How to switch to smarter energy

Solar • Energy Management

Energy Storage • Electric Vehicle (EV) Charging



2.1 An Overview

You've probably heard the term "smart energy" a lot in recent times and wondered what it means. To put it simply, smart energy is the process of integrating devices throughout the home to improve energy-efficiency. It focuses on sustainable and renewable energy sources that promote friendlier treatment to our environment, while also driving costs down.

Implementing smarter energy throughout your household typically involves the installation and integration of some or all of the following:

- A solar photovoltaic (PV) system that harnesses the sun's energy.
- A Home Energy Management System (HEMS) that allows households to monitor, control and automate energy usage and production.
- An energy storage system (battery bank) that stores energy harnessed from solar PV systems or from the grid for later use.
- An Electric Vehicle (EV) charger that provides faster and efficient electric vehicle charging from the comfort of your home.

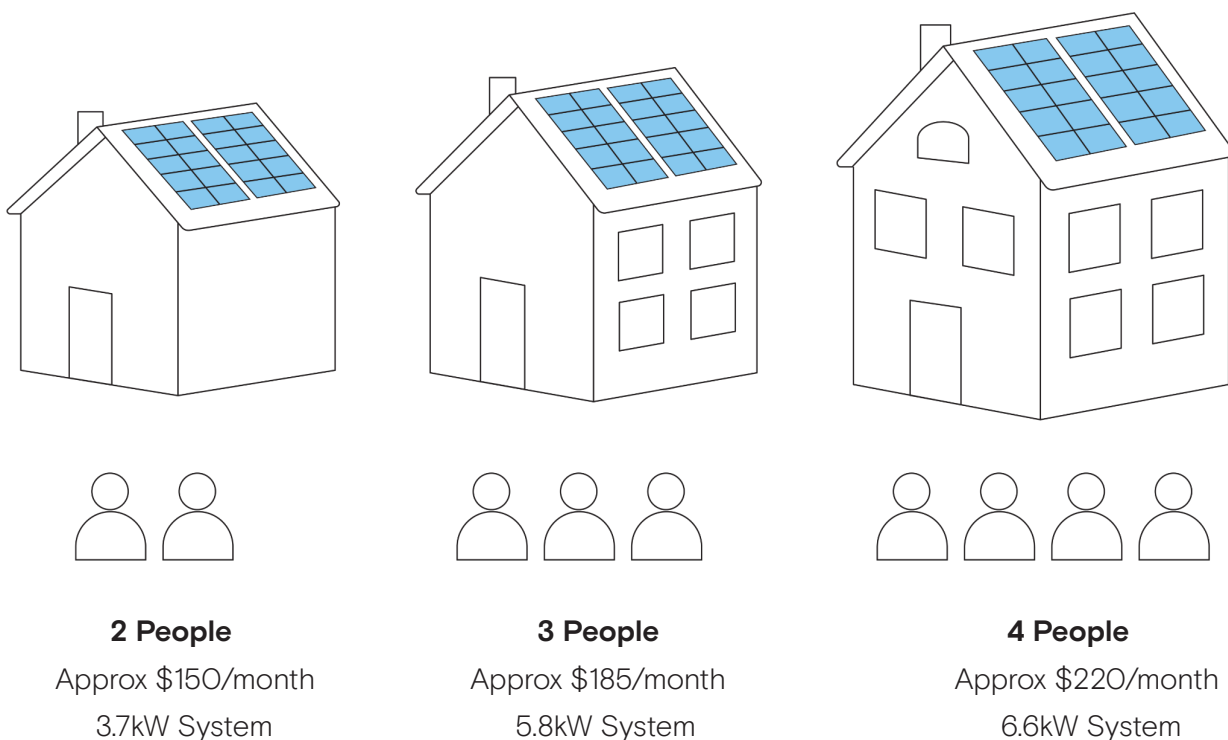
Switching your home to smarter energy is not a simple one size fits all approach. It is usually a staged effort and requires a tailored solution as every home use energy differently. This variation in usage patterns also means the right solution needs to consider what brand, device size, and quality level are most appropriate to meet your needs within your given budget. Energis can help determine these needs and suggest an appropriate solution to help kick start your smarter energy journey.

2.2 Solar Power

By installing a solar PV system with Energis not only will you reduce your electricity bills, but you may also be able to claim solar incentives available by Government. We specialise in the highest quality solar energy products and services in Australia and have access to a wide range of brands.

WHAT SIZE SOLAR PV SYSTEM DOES YOUR HOUSEHOLD REQUIRE?

Energis offers a solar PV system to meet the specific energy needs of any household.:



* Residential households in Victoria may be eligible for rebates and incentives from the Government. Speak to our Energy Consultant to understand what rebates or incentives are currently available and the eligibility requirements.



2.3 Home Automation

CONTROLLING YOUR ENERGY USE

One way to achieve an energy-efficient home is to utilise energy-efficient technologies. For heating and cooling, hot water, lighting, and appliances. Home connectivity can then be used to further increase these efficiencies.

CONNECTED DEVICES

Connected devices can be used for controlling almost any type of internet-enabled equipment. The most relevant for energy are used for:

- Heating and cooling
- Hot water
- Lighting
- Small loads like plug in appliances
- Bigger loads that have their own dedicated circuit like pool pumps

Once connected, the equipment can be switched on or off and schedules can be set to align with when your solar panels produce the most power or during off-peak periods – which will work towards making the most out of cheaper electricity and therefore creating a more energy efficient home.

DID YOU KNOW?

Pool pumps will run continuously unless you set a schedule. Often pool pumps will have their own dedicated circuit on your switchboard and consume a lot of energy and be costly. The answer isn't to filter your pool continuously, but to put it on a schedule in which it leverages solar power energy or off-peak tariff (if applicable) to pump. All other times of the day? It should be switched off.

2.4 Energy Storage



Energy storage is the capture of energy produced for use at a later stage. This energy can be utilised when the electricity generated by a solar system is insufficient to meet consumption needs, such as at night. Energy storage offers more flexible energy and allows you to fully take control of your energy production.

BENEFITS OF ENERGY STORAGE?

Energy storage systems are a necessity for households who have or are looking to install a solar PV system. Why? Take a household that generates 20kWh of energy from their solar PV system during the day for example. This household might only consume 10kWh during the day. An energy storage system would then store the remaining 10kWh allowing the household to draw from this energy reserve later in the evening instead of purchasing electricity from the grid.

WHICH BATTERY IS BEST SUITED TO MY HOUSEHOLD?

Batteries have a few key specifications. Choosing the right battery for your needs will mostly depend on how much energy you consume and when you consume it, whether you want backup during a power outage, and the size of your solar PV system (if you have one). Some key specifications that are important to understand are: capacity, depth of discharge, efficiency, life cycle, and electrical connection.

- 1. Capacity:** The capacity (or size) of a battery is how much energy it can store, usually measured in kilowatt-hours (kWh). The nominal capacity is the total amount of energy the battery can hold; the usable capacity is how much of that can actually be used, after the depth of discharge is factored in. Some batteries are designed to be modular, so you can increase your storage by adding more units.
- 2. Depth of Discharge:** The 'depth of discharge' (DoD) of your battery is the amount of usable energy. It is expressed as a percentage of the total capacity. Lithium batteries often have a DoD of 90–95%, compared with lead-acid batteries that have a DoD of 30–60%. Flow batteries can use their complete capacity (100% DoD).
- 3. Efficiency:** A battery's efficiency is how much energy the battery will actually store and put out again. 'Round trip efficiency' is the efficiency of the battery including the inverter.
- 4. Life Cycles:** The lifecycles of a battery are the total number of charge-discharge cycles it can perform throughout its life.



2.5 Electric Vehicle (EV) Charging

We know the future of cars is electric. Now is the right time to start capitalising with a smart Electric Vehicle charger that can integrate with a Solar PV and Energy storage solution.

WHY SWITCH TO EV AND INVEST IN AN ENERGIS EV CHARGER

Faster Charging.

Instead of using a wall socket which could take forever to charge your EV, use the Energis smart EV charger to significantly reduce charging time.

Great Savings.

The running cost of an EV is more affordable than using conventional petrol or diesel vehicle. You save more money by charging your EV at home with an Energis EV charger as the charge costs at home are cheaper in comparison to a commercial EV charging station.

Reduced Emissions.

Feel good knowing you are avoiding carbon emissions and contributing to improving the air quality in Australia.

We're Experienced

Our team has been at the forefront of Australia's smart energy solutions market since 2013.



We only work with the most respected manufacturers and top-quality brands at the most affordable prices.



03

Purchasing options



Purchasing Options

There are 3 ways for your homeowners to invest in smart energy solutions with Energis.

1 **Buy Outright:** Pay Upfront and Get All Available Discounts

- Own the asset outright
 - Lock in a fixed electricity rate for the life of your system
 - Immediately add value and green ratings to your home
 - Receive a 10-year installation warranty, alongside a 25-year solar panel warranty
-

2 **Payment Plan:** Pay Month to Month With A \$0 Deposit and Repayments Spread Up to 10-Years

- Any maintenance is taken care of by Energis
 - Immediately add value and green ratings to your home
-

3 **Power Purchasing Agreement:** An Agreement Between Energis and the Customer to Supply Electricity at a Cheaper Rate Than Provided By an Electricity Retailer

- No upfront capital costs. Only pay a tariff for the power you use as you would using grid electricity
- Energis will pay for the system
- No technological or service risks
- Any maintenance is taken care of by Energis
- A cheaper electricity rate
- Immediately add value and green ratings to your home



04

Meet Energis

We practice what we preach



About Energis

Energis is a 100% Australian owned and New Energy Tech-approved company. We have been designing, installing and servicing residents in Victoria since 2013.



We are a New Energy Tech approved seller & 100% Australian-Owned

This accreditation is an indispensable qualification for a business installing Solar PV. Retailers with this accreditation are committed to quality and best practice. We are also proud to be 100% Australian-owned.



Service all of Victoria and Beyond

With a lot of pride, we service the Metro, Geelong, Mildura and Wodonga regions. Our extensive network allows us to deliver Metro pricing to even the most remote areas.



Tier 1 Quality

We only work with the most respected manufacturers and top-quality panel and inverter brands at the most affordable prices. Tier 1 panels offer high-quality standards that have proven to be better and more bankable than the rest of the market. Our products come with locally backed warranties.



Standing strong since 2013

Energis has always remained consistent in delivering quality installations and customer support for its customers. We've installed some of the biggest projects in Victoria – no job is too big or too small for us.



Customer focused

At Energis, the sole focus has always been the customer and the outcome they're looking to achieve – whether that's reduced energy bills, less reliance on the grid or making their homes smarter. We bring our customers ease and affordability with the assurance that we'll always deliver top-quality products.



ISO Accredited and Affiliated with Credible Brands & Associations

Energis holds the following accreditations and is associated with a number of credible membership associations and industry body:



A modern, two-story house with a light-colored facade and large windows. Two windows are illuminated from within, showing a warm glow. A car is parked in a covered driveway area, and a charging station is visible. The house is surrounded by greenery.

Don't just take it from us. Read what our customers had to say.



Energis was recommended by a friend who had a system installed. We received excellent treatment through the enquiry stage, the quote stage, and the installation state. The independent electrical inspector said they had done a great job installing our system. Sheridyn, in sales, was always terrific support. Can't recommend highly enough.



Michael Waters



4.95kW Solar Power System

Google





Very professional staff. They respond quickly to any questions or issues we had with how the solar panels work. We would highly recommend this company.



Janet Jowsey



6.24kW Solar Panel System



After checking the market for a solar panel partner, we decided upon Energis. The service was second to none and the support their offered through the entire end to process was excellent. Thank you Energis...we couldn't be happier.



Brian and Paula Ainsworth



5kW Solar Power System





Highly recommend.

Fast, simple and easy to deal with keep up the good work Andrew.



Zac Regan



6.6kW Solar Power System



Very professional staff. They respond quickly to any questions or issues we had with how the solar panels work. We would highly recommend this company.



Robert Romeo



6.3kW Solar Panel System



Telephone: 1300 782 217

Email: sales@energis.com.au

Website: energis.com.au

Head Office: 8/3 Westside Avenue, Port Melbourne, VIC 3207

Warehouse: 74 Agar Drive, Truganina, VIC 3029