

We believe everyone deserves access to Affordable, Reliable, Abundant, Convenient, Quality and Safe energy.



VISION ENERGY
SOLUTIONS
POWERING FIJI SUSTAINABLY

**To consistently meet
your daily power
needs your off-grid
solar system must
be sized properly!**



DO YOU KNOW HOW TO EVALUATE, SIZE AND BUY AN OFF-GRID SOLAR SYSTEM?

Off-grid solar systems are designed to 100% independently power homes when utility grid connection is not available, unreliable or too expensive.



Sizing an Off-Grid Solar System Requires Expert Assistance to:

- 1 Determine the daily household power requirements:**
Consider current and future electricity needs as the household expands and adds technologies.
- 2 Calculate the ideal battery backup storage capacity:**
Consider cloudy days and nighttime electricity usage patterns.
- 3 Identify optimal system components:**
Ensure all equipment is compatible to be installed together safely to meet the specific household goals.

**Avoid Costly and Dangerous
Consequences:
Trust Only Qualified Solar Professionals**

Are you considering purchasing an “off-the-shelf solar kit” and installing it yourself?

How confident are you that your current off-grid system was expertly designed and installed with the right system configurations to optimally power your home safely?”

Do you need to add or replace a new component to your solar power system? Are you certain it is compatible with your current system?

**Never buy (or add on to)
an off-grid system without
expert consultation.
Poorly designed systems and
mismatched equipment can
create costly and dangerous
challenges.**

Contact VES for a free project assessment & expert advice:



A member of
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Special Solar Finance Facility available through
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Conditions Apply.



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1. Determine Daily Power Needs

Provide current and future daily household electricity usage (kWh) information to a qualified solar expert for review. If complete and accurate information is not provided, it is impossible to design and install an optimal system for your unique circumstances.

- ☀️ List of appliances you wish to operate with solar power. Consider your future requirements to ensure the system will sustainably meet your needs for many years.
- ☀️ Find the electrical specifications for all appliances: Name plate information such as Wattage (W), Amperes (A), and Voltage (V).
- ☀️ Determine the usage time period for each item.

2. Calculate Required Battery Storage

Battery storage capacity is determined by how much power you may need when the sun is not shining on your solar panels.

- ☀️ Your daily energy usage in kWh
- ☀️ How many days of backup power do you want in case of cloudy/rainy days?
- ☀️ What is the lowest temperature your battery bank will experience?
- ☀️ Select a battery bank voltage

3. Identify System Components



Solar Panels

Generate solar PV DC electricity by converting light into energy.



Charge Controllers

Efficiently controls battery charging for optimal power storage.



Inverter

Converts the DC power into usable AC electricity to power the household.



Wiring & safety devices

Compatible wiring, power optimizers, junction boxes and auto shut off switches are some of the important safety considerations during the design and installation process.

Always confirm all system components are designed to be installed together.

Mismatched configurations can result in operational failures or safety risks

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