



# **Off Grid Living: Solar Panels - Everything You Need To Know Before Building Your Own Photovoltaic Solar Installation (Off Grid Solar, Solar, PV System, Photovoltaic, Solar Panels, Off Grid Living)**

*Robert McKinley*

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## **Off Grid Photovoltaic Solar Systems**

Solar photovoltaic power is very promising as an alternative energy source for humanity, since it offers considerable economic and environmental benefits. First of all, it works with sunlight, an energy source which is free and available virtually everywhere. In addition, system operation is completely clean and free from pollutants. Finally, photovoltaic panels are a very robust technology which may last for 25 years or more. Given that the payback period of solar photovoltaic systems is typically less than ten years, this means that at least 15 years of free energy are guaranteed.

## **What You Can Expect To Learn...**

### **CHAPTER 1 - INTRODUCTION**

- Before you go Off the Grid with Solar, Retrofit for Energy Efficiency
- Retrofit your Lighting
- Improve your Home Insulation and Air Tightness
- Improve your Heating and Cooling Equipment
- The Impact of Energy Efficiency

### **CHAPTER 2 – WHY YOU SHOULD START BUILDING YOUR OWN OFF-GRID SOLAR PV SYSTEM**

- Considerations Before You Go Off the Grid

### **CHAPTER 3 – ELEMENTS OF AN OFF-GRID SOLAR PV SYSTEM**

- First and Foremost: Choosing among Photovoltaic Module Technologies
- What type of modules to select?
- Batteries: The Key to Using Solar Power Day and Night
- The Charge Controller: Integrating Your PV System and Batteries
- Inverters: Converting DC Power to AC Power
- Technical Challenges of a PV Array Connected in Series
- Complementary Technologies to Enhance your Solar PV System
- Power Optimizers
- Solar Trackers
- Monitoring Systems
- Backup Generator

### **CHAPTER 4 – SIZING THE SOLAR PV SYSTEM**

- Step 1 – Find out the peak sun hours at your location
- Step 2 – Find out the adequate system tilt
- Step 3 – Size the solar array

CHAPTER 5 – BUILDING THE SYSTEM

CONCLUDING REMARKS

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