

GO SOLAR

Without Big Daddy's Help



Geoff Trager

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**A Guide for Setting Up Low Cost Solar Power Projects
in Your Own Backyard With Easy Do-It-Yourself Kits**

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PREFACE



DOC TRAGER CRUISING IN SOLAR POWERED KAYAK

Did you know you can start harvesting sunlight for electricity from your own backyard, right now, without being an electrician or engineer? And you don't have to wait around for big government, small government, or your local power company to get started. It's true! Kits are now available providing free electricity from small, lightweight, solar panels that are easier to assemble by far than most put-together furniture or large package toys.

I know, because I use these kits for my business installing small solar powered pumps for fish pond **waterfalls** and **rain cistern** filtration and circulation for stored landscape irrigation water.

One kit fits in a box 3 ft long, 12 in. wide, and 18 in. high, so you can take it camping to power lap tops, DVD players, night lights and fans, in the middle of the wilderness, far from any municipal power company.

I also explore Florida wetlands in my solar-powered kayak. Don't worry; I'm not totally, sinfully, lazy! I still paddle around in kayaks too, but either way, its clean, quiet, free energy I'm using.

To find out exactly what you need to buy, where to get it, how much it will cost, and how to set it all up following clear, simple, illustrated instructions, for all of the projects listed below as well as using the kit for any small, low cost, low power projects you dream up, order Dr. Geoff Trager's 32 page e-pamphlet: **GO SOLAR WITHOUT BIG DADDY'S HELP** now!

Step-by-step instruction for building your own:

- Solar Power Generator with Battery
- Solar Powered Motorized Kayak
- Solar Powered Small Waterfalls for Fish Ponds
- Solar Powered Garden Irrigation System Bio filter with Rain Barrels

Features of these Solar Projects:

- Get started for less than \$500
 - No training necessary
 - No license required
 - Independence from Power Companies
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INTRODUCTION

The first time I glided silently down the mangrove-line creek I live on, laid back in my motorized, solar powered kayak, a neighbor who also lived on the creek and was sitting out by the water as I passed by, yelled out angrily at me “You’re cheatin’, boy! You’re supposed to paddle that thing!”

One week later, after I’d shown him exactly how I did it, he rigged up his own kayak accordingly, and together we went out fishing in our small, sleek, sun-powered water craft.

From then on, I was hooked on the joy of going solar, and moved along to build bigger and better solar systems in my own backyard, for a variety of projects. It wasn’t *like* I was creating a small, clean, quiet, power plant in my own backyard, that’s actually what I was really doing! And in the process, I was focusing *not* on something **expensive** we are running low on, like fossil fuel reserves, but instead on something that is **FREE** and **truly abundant!** Physicists tell us our sun isn’t going to *begin* burning out for about 5 or 6 billion years, so we don’t have to lie awake at night worrying about running out of sunlight! Physicists also tell us, as an exercise in thought, that if you could somehow capture and store an amount of energy equivalent to all of the sunlight that hits planet earth in a single 24 hour day, it would be enough to power all of humankind’s energy needs for a full year! So we are not even close to taking full advantage of this virtually limitless resource. In fact, we are just getting started, and you can be a part of it now!

The technology to harvest sunlight for electricity has been around for a while, and now it’s available in the form of affordable, easy-to-install kits sold at certain nation-wide retail stores in the U.S. This booklet provides all the information you need to set up a solar power generator in your own yard, and use it to power three additional small solar projects: 1) Solar Powered Kayak; 2) Fish Pond with Solar Powered Waterfall/Bio-Filter; 3) Gravity Fed Rain Garden Irrigation System with Sun Powered Bio-filter. A short chapter is devoted to each project. After you learn how to set up any or all of these sample projects, there is no limit to the solar powered creations you can dream up on your own. So let’s get started!

EASIEST PART FIRST

Your own backyard power plant

CHAPTER 1:

Solar Power Generator with Battery Energy Storage



Figure 1: Solar panel array from kit providing power for water fall pump

Read this chapter first. It tells you how to set up the solar generator/battery charger kit which you will need to power the three remaining projects. You can also use the panels and 12 volt charger to charge any 12 volt batteries (e.g. car, boat) to power any equipment made to run off of a 12 volt battery. You can even run low power 110 volt AC equipment using the kit's inverter, like small desk fans, desk lamps, and notebook computers (the amount of power is limited by the 200 watt inverter that comes with the kit) and you can do all of this in your camping tent in the middle of the Gobi Desert, if you like, far from any electrical supply from a power company!

END OF EXCERPT...