

How to Build your own ...

Wind Generator



with Les and Jane

Build your own Wind Generator inexpensively
Find FREE wind towers and batteries!
Find FREE wind generator blades- built in an hour!
Build your own FREE Battery Desulfator
Produce 1000 watts of wind power for under \$100
100 pages of Renewable Energy Information
15 years experience *Living Off the Grid*



A finished wind Generator Les and Jane

© Copyright 2008 Les and Jane Oke

***** IMPORTANT *****

Please Read This First

If you have any Problems, Questions or Concerns about this book, please contact us immediately.

Use the [Contact Us](#) form on our website.

We want you to know that you are important to us. Your success is important to us. That makes your questions important to us.

Your total satisfaction with this book is our aim.

Please remember that it does take some time to digest new information. There are times when it takes me 2 or even 3 times reading a book before I 'get it'.

You are not alone if you don't get it the first time through. This can be a very complicated subject to understand, especially if it is new to you. Take your time and let us help you if you need it.

We are here to help you and we will walk you through every step if you need us to.

<u>Table of Contents</u>	<u>Page</u>
Our Wind Generator Challenge	5
Getting Started Now	8
Finding Free Batteries	9
Wiring Diagram of your System	12
Parts List	14
DC Motors	16
Designing your Home for Renewable Energy	23
Your Energy Budget	24
Electricity 101	29
Free Wind Towers	31
Blades and a Hub	33
Blade Materials?	35
Free Sources of Parts	45
Attaching Blades to the Hub	47
The Body Assembly of your Wind Generator	50
The Tail	52

Your Charge Controller	53
Wiring your New Wind Generator	55
Frequently Asked Questions	56
<u>Bonus Section</u>	
Build a Battery Desulfator	65
Selecting Your System Voltage	72
About Wind Energy	75
Types of Wind Generators	81
Our Journey to Living Off the Grid	85
Grid Tie - Solar or Wind?	90
Finding Your Off Grid Home	94
Send us YOUR Story !	100

OUR WIND GENERATOR CHALLENGE



Here at the Living Off the Grid homestead we like challenges. Our challenge here was to build a **Homemade Wind Generator** that satisfied the following criteria for design, and teach you how to build it efficiently while having fun too.

Homemade Wind Generator Challenge

- Your Homemade Wind Generator can be built for under \$100 usd and will produce 1000 watts of power
- You will find FREE wind towers and batteries!
- You will find FREE wind generator blades- built in an hour!
- You will build your own FREE Battery Desulfator
- The plans are easy to read and follow
- You will match your generator motor to your blades
- This is an Original design for the homemade wind generator
- Must be made from readily available material
- Must be easy to build and assemble
- Tough enough to endure the tough Canadian climate
- Your home made wind generator will look good!

- Protect your new wind generator from damaging high winds with a simple tilt-up or pilot vane system

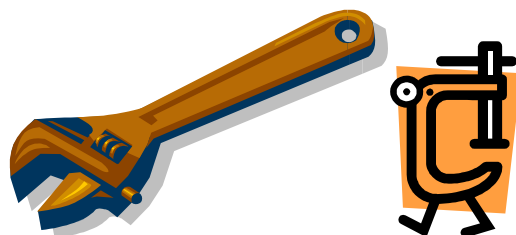
And we make this promise to you: these plans do meet the preceding requirements, but it does take some work on your part. You bought these plans because you presumably didn't want to spend over \$4000 for a wind generator. These plans offer many solutions to the challenge above, use your own imagination too.

My wife Jane, our 12 year old son Andre' and myself all took part in the challenge, and we have, after many months of work come up with a design that meets ALL of the above criterion. With our 15 years of experience Living Off the Grid with renewable energy we have seen many different wind generator designs. We think these plans are the very best plans available on the 'net', when cost, ease of assembly, and the short time frame to achieve the desired results are all considered.

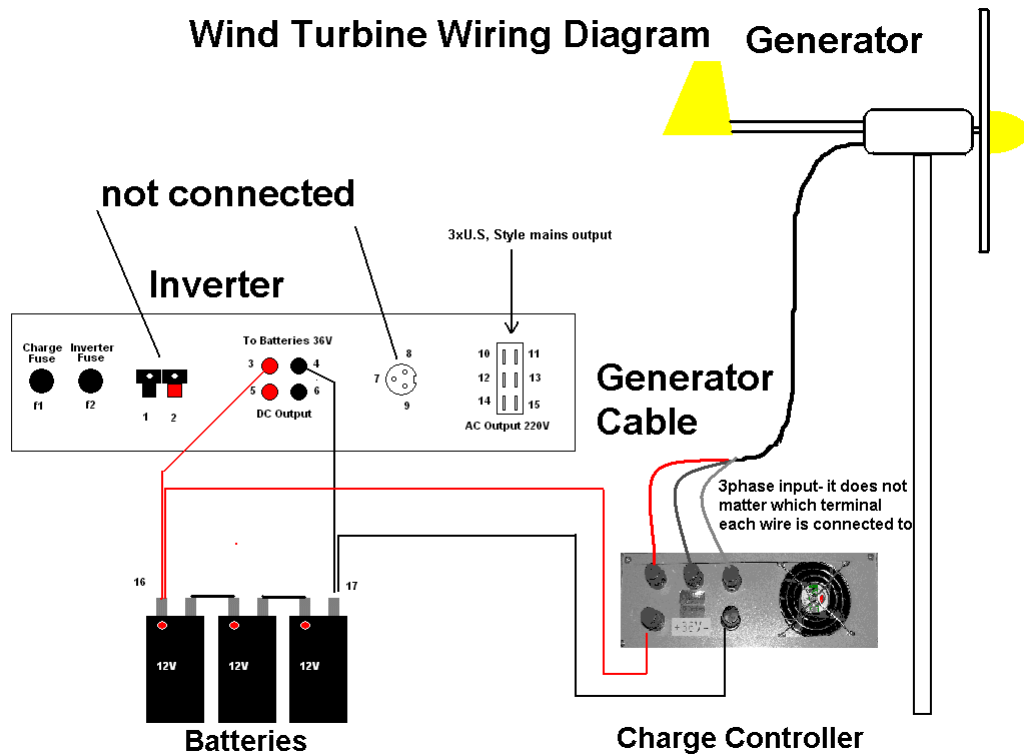
GETTING STARTED

You will need a minimum amount of tools at the very least, a small work space area (we used a 10 foot by 10 foot shop for most of our work). It doesn't need to be very large.

Tools Needed



Jigsaw, small grinder, various wrenches, socket set, various screw drivers, #80 sand paper, and a big pile of initiative mostly.



Don't worry if the previous drawing looks daunting but we assure you that you will understand everything on the drawing when you are done!

The first thing we like to do here at the Living Off The Grid Homestead, when faced with a problem, is break it down into manageable pieces. If we break down, or simplify the processes necessary to build a homemade wind generator it will make it much easier to understand.

First off a wind generator may seem to be built with very complicated machinery, but in fact this is not the case.

You should be able to build your own homemade wind generator with easy to obtain parts for under \$100.

Amazingly, we have even built several homemade wind generators at absolutely no cost, except for the time to build them and the time it took to scrounge up free material.

YOU CAN EVEN BUILD A WIND GENERATOR FOR FREE if you work at it.



Parts List

Your homemade wind generator will be made up of-

Qty	Product you will need to purchase from ebay or your supplier	Price USDS
1	DC Motor for a power generator	\$40
1	A body assembly	\$12
1	A tail assembly	\$3
1	Blades, vanes or propellers to spin in the wind and collect free wind energy	\$23
1	A hub to connect the prop to the DC motor	\$5
1	A tower (which we will show you how to find for free)	Free
1	Battery bank to store all of that free wind energy	Free
1	Nuts and Bolts	7\$
1	Misc. Hardware	\$6

That comes out to about \$96 usd for your homemade wind generator.

We didn't think that was too bad. We know we **could not** buy a comparable commercially available wind generator with the 50 foot wind tower, with batteries and a charge controller for under \$4000 usd.



Let's get started- Just click the following link for instant access-

[Build A Wind Generator To Power Your Home](#)