

How to Build your own ...

# Homemade 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

## **Legal stuff our lawyers made us say. Let's get this out of the way first, so we can get to the good stuff...**

No Part of this document shall be reproduced or resold without permission from the authors. Violators will be prosecuted to the fullest extent of the law. The authors of this book assume no responsibility for accidents incurred while following the enclosed directions. Working with batteries can be dangerous, and working with wind generators can be dangerous.

Please be careful. Your first rule of thumb should always be...Safety First! These instructions as recorded have worked for others in the past and should work for you too, if you follow simple safety instructions. Use this document at your own risk.

If any of this procedure scares you, then ask a competent friend to help you, or better yet a competent electrical tradesman. We know you can do this, as we have done all of the things outlined in this book, and many others have too.

But if you are for any reason not comfortable with electricity (and some of us are not) then get some help with this project. Even if it is just having someone else around while you work on your home renewable energy system, it is a good idea.

Even after 15 years living with our own battery based system, we never, ever touch it without someone else being home. Never. Think safety first and everything will be fine.

Hope we didn't scare you too much with these safety warnings but Jane and I cannot stress enough that while working with potentially dangerous batteries or even your wind generator that certain precautions must be taken. We will deal with very specific safety recommendations in each section, play close attention to this symbol. If you see this symbol, please play close attention for your own safety. Have fun, but please be careful. Thanks.



**\*\*\* 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.

<b><u>Table of Contents</u></b>	<b><u>Page</u></b>
<b>Our Wind Generator Challenge</b>	<b>5</b>
<b>Getting Started Now</b>	<b>8</b>
<b>Finding Free Batteries</b>	<b>9</b>
<b>Wiring Diagram of your System</b>	<b>12</b>
<b>Parts List</b>	<b>14</b>
<b>DC Motors</b>	<b>16</b>
<b>Designing your Home for Renewable Energy</b>	<b>23</b>
<b>Your Energy Budget</b>	<b>24</b>
<b>Electricity 101</b>	<b>29</b>
<b>Free Wind Towers</b>	<b>31</b>
<b>Blades and a Hub</b>	<b>33</b>
<b>Blade Materials?</b>	<b>35</b>
<b>Free Sources of Parts</b>	<b>45</b>
<b>Attaching Blades to the Hub</b>	<b>47</b>
<b>The Body Assembly of your Wind Generator</b>	<b>50</b>
<b>The Tail</b>	<b>52</b>
<b>Your Charge Controller</b>	<b>53</b>

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

## 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

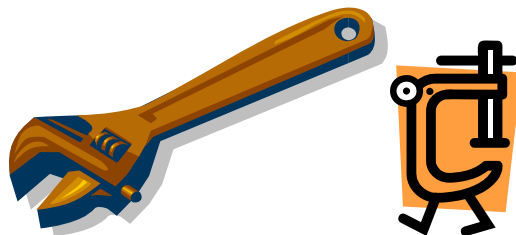
**And we make this promise to you: these plans do meet the preceding requirements, but it does take some work on your part. You bought these plans because you presumably didn't want to spend over \$4000 for a wind generator. These plans offer many solutions to the challenge above, use your own imagination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

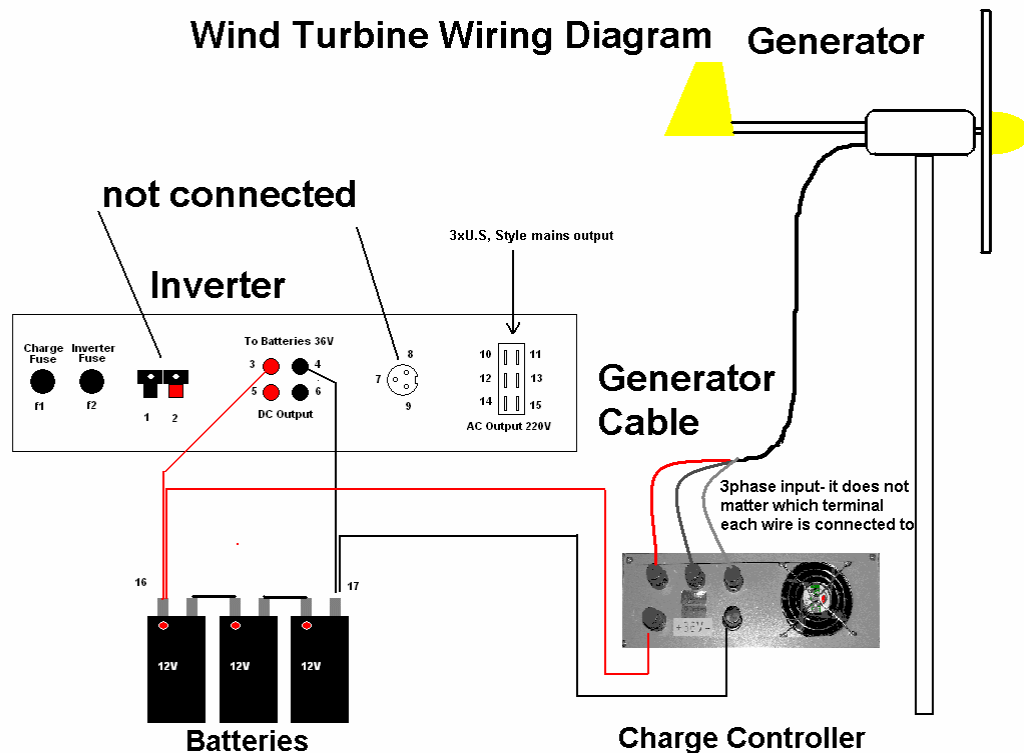
## **GETTING STARTED**

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.



## LET'S BEGIN

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 USD\$
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\*\*](#)