

DOCKETED

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*Comment Received From: Carla R. Gillett
Submitted On: 10/26/2018
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Kickstarter Project

To Silvia Palma-Rojas,
I have a Kickstarter Project that relates to next generation wind turbine solutions as the conceptual depiction illustrates, this is a "Next-Generation Wind Energy Technology Alternative". Can you pass the Kickstarter Project onto others for the knowledge?

This is my Dual Axis Wind Turbine System integrated with Solar Panels, the system is perfect for onshore and offshore renewable energy production, my link below has the specifications and drawings showing the Hybrid Energy System for General Applications. So today I am trying to insure my information is accessible to review.

My Kickstarter Project will be launched tomorrow, the pdf attachment provided details the links. Feel free to pass the Kickstarter pdf to anyone you wish who wishes to be a supporter of Renewable Energy Alternatives.

The comment I want to make known is "Building larger shroud turbine blades will certainly kill more flying wildlife, There are solutions like my Giant Wind Turbine that can produce safer wind power, the link to my Hybrid Energy System for onshore and offshore use is:
<https://patents.google.com/patent/US20170012430A1/en?q=15%2f247935>

Thank you, Carla R. Gillett
Sacramento, CA

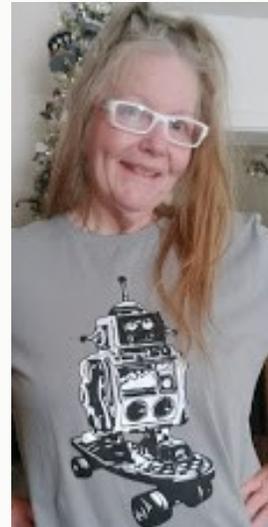
Additional submitted attachment is included below.

KICKSTARTER PROJECT

Carla R. Gillett

Profile:

Born and live in Sacramento, my hobby is inventing hybrid renewable energy alternatives, small DC powered autonomous vehicles and AI robotic technology.



Profile Photo

Portable Hybrid Energy System

A portable hybrid energy system incorporating wind turbines (VAWT) and solar power to generate on demand energy and battery storage.

[Campaign](#) [FAQ](#) [Updates](#) [Comments](#) [Community](#)

About

This project is about providing a portable hybrid energy system incorporating wind turbines (VAWT) and solar power to generate on demand energy and battery storage. The fully integrated “HYBRID ENERGY SYSTEM” is a renewable energy product incorporating one or more vertical axis wind turbines (VAWT) integrated with solar power technology within a modular portable kit. The hybrid energy system or (HES) is an effective solution designed to work as a “fuel free generator” for bringing power to people in coastal regions which is 80 percent of global population. This unique design enables the solar energy system to generate free clean power both day and night for indoor and outdoor use.

The slideshow provides a photo of the dual axis turbine prototype made by me, and a conceptual view of a Shroud Wind Park utilizing my Giant Wind Turbine and Solar System, (my giant blades and arrangement is safer allowing birds and bats to fly around.)

Support

Kindly, I am seeking funding and friendly support from people who wish to reduce carbon pollution from fossil fuel energy, and for those supporting any realistic and adaptable clean energy solution, I thank you.

HYBRID ENERGY SYSTEM

Features

- One or more low profile Vertical Axis Wind Turbines (VAWT)
- Silent operation & environmentally friendly
- Modular construction design
- High Efficiency Solar Panels

The Portable Kit:

- One Wind Turbine with Solar Panel
- Battery Compartment & Control System



The Urban Model:

- An Array of Wind Turbines
- An Array of Solar Panels
- One Grid Tied Micro/Mini Inverter



Performance Advantages

- The Vertical Axis Wind Turbine (VAWT) configured with 2 Opposing Axis Generators (1 generator set above the blade axis and 1 generator set below the blade axis).
- Locking caster wheels for mobile transport.
- Portable battery caddy accessory providing indoor/outdoor on demand power.
- Accessible compartment with battery bank storage and charger.
- Control panel with user touchscreen.
- Bluetooth Smartphone Manager App.
- WIFI Smart Plug Connection, USB charger ports to charge phone and electronics.
- One or more extension cords for plugging into appliances, tools and EV.

Introduction

Hi I'm Carla, I invent AI robots and renewable energy turbines activated by wind and forced elements. I've become a ProSe USPTO customer learning how write my own patent applications because I'm on a limited budget. Thus far I've been successfully awarded five utility patents and have four allowed utility applications in the issuing process for all kinds of robots, drones, holonomic robots, autonomous vehicles and small DC modes of transportation, this one titled "Hybrid Energy System for General Applications" I'm proudest of because it is realistically needed.

I believe that my hybrid energy system offers technology that can help millions of people without power due to power outages caused by utility blackouts and horrifying catastrophic events such as hurricanes, tsunamis, drought and fires. As for now, what's happening globally in coastal communities is heartbreaking and costly, so I invented my portable dual axis wind turbine as an inexpensive alternative and affordable means for providing immediate on demand AC/DC power by PV resources and by solar wind naturally produced by the sun. Dynamically at minimum wind speed the two opposing generators spin simultaneously and freely unlike a gas guzzling generator.

As shown in the application and the conceptual brochure the portable hybrid energy system is a simple concept for a necessary solution, whereby the compact portable kit can be moved anywhere outside to provide power inside. The system can be anchored on rooftops and verandas in vertical living communities, remarkably it pretty much works wherever the wind blows and when the sun shines.

The Portable Kit can furnish enough power for powering lights, charging phones, electronics and provide surplus battery power during power outages for running small appliances like a mini refrigerator and is very useful for maintaining power for tools, charging EVs and DC powered modes of transportation.

The Portable Kit is shown with one wind turbine however it can include two wind turbine units with four generators. Respectively, the Portable Kit is well suited for traveling and storing because of it's modular compact features, it can be assembled and disassembled, and it can be wheeled in a safe place until dangerous winds and bad weather conditions pass, then immediately brought outside to begin working to provide much needed and dependable emergency energy.

The compartment is configured for housing multiple standard 12 volt batteries or marine batteries, and also provides accessible connection outlets to connect extension cords and a portable battery caddy, the cords, batteries and the portable battery caddy are sold on the marketplace.

For maximum energy use, adding an arrangement of multiple Urban Models where wind is ample, can furnish enough AC for powering a home, business and infrastructure.

I have three main goals for this Kickstarter project:

- Contract an engineering firm with the 35,000 to design a feasible schematic plan for the "Portable Kit"
- Kick off production with at least one licensed partner
- Continue development of the Urban Model

As the inventor, I have the allowed patent currently in the issuing process (verified in the website link and the USPTO link confirmed therein).

I am prepared for Stage #1 which is to employ an engineering team with the 35,000, if funding is left over or is more than 35,000, accordingly I will appropriately use the remaining funds to purchase prototype components detailed in stage 2.

I will provide receipts, a detailed plan of action and milestones, and in due time I will provide production photos/videos for supporters to view how the project is a work in progress until it is completed and works!

Stage #2

- two generators
- one helioplex blade
- create the custom frame
- create compartment
- configure kit structural and wiring parts
- control system components
- miscellaneous system elements

I already have a monocrystalline solar panel and an inverter.

Stage #3

Promote the Portable Kit prototype by seeking companies interested in manufacturing and distributing a product such as this on a global scale.

Risks and challenges

The challenge is awareness and opportunity, I have spent countless days reaching out to universities, students, and companies only to be thwarted because they're focused on their goals and projects. Unstandable I must move forward to complete it with your support I can.

I need help, this wind turbine product is beyond my skills to make... The project requires skilled mechanical engineers and electricians and adequate testing prior to selling it to consumers.

As well on a business level, I fully understand that a great CEO and team is required and that most companies fail due to lack early stage funding and/or product saturation, so consequently I am seeking those who understand failure and have great business savvy to advise me on how and who I should partner with to help get this much needed product manufactured and distributed as soon as possible for global use.

As a reward, it's a good energy alternative for those who have never had power, and a fulfilling way to help hurricane survivors still without power.

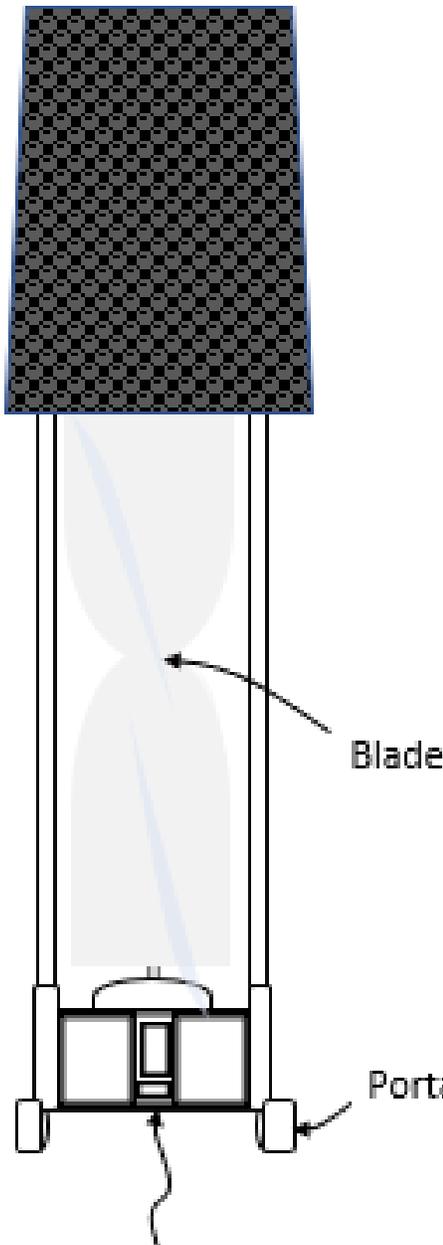
Thank you!

[Learn about accountability on Kickstarter](#)

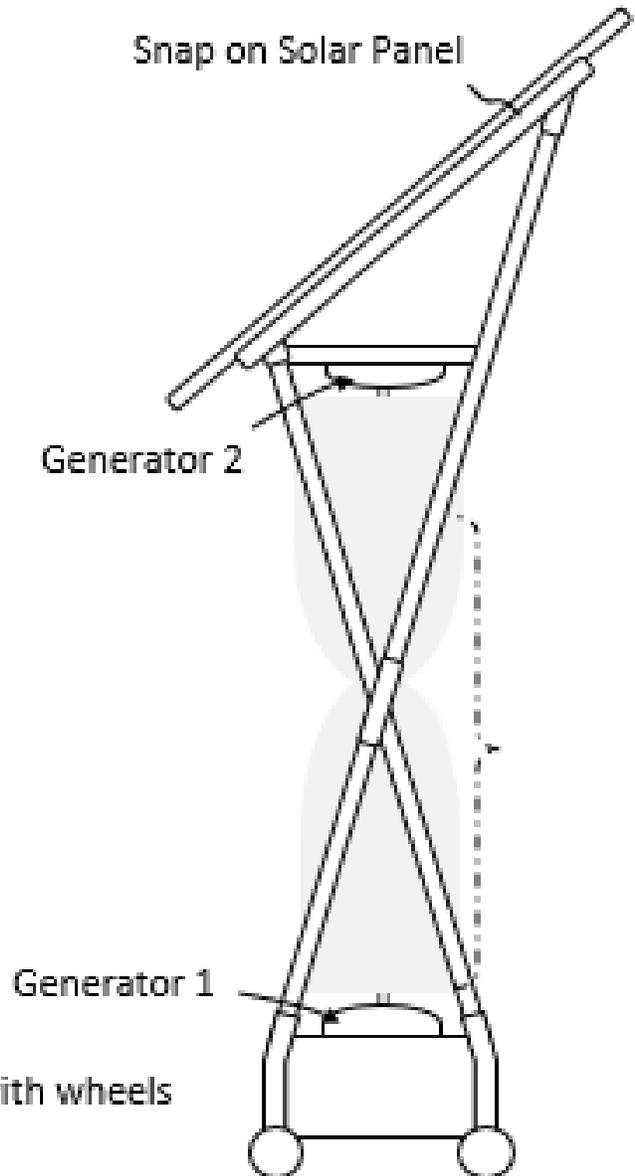
Questions about this project? **[Check out the FAQ](#)**

Portable Hybrid Solar Generator Kit

Front View

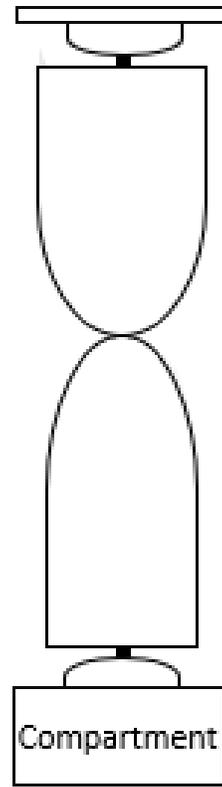
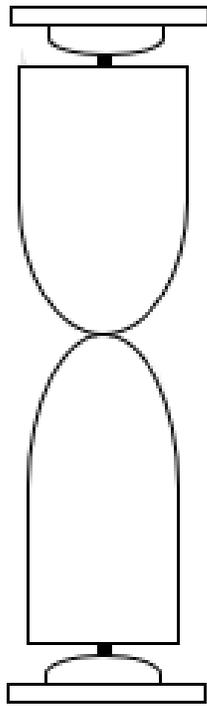


Side View

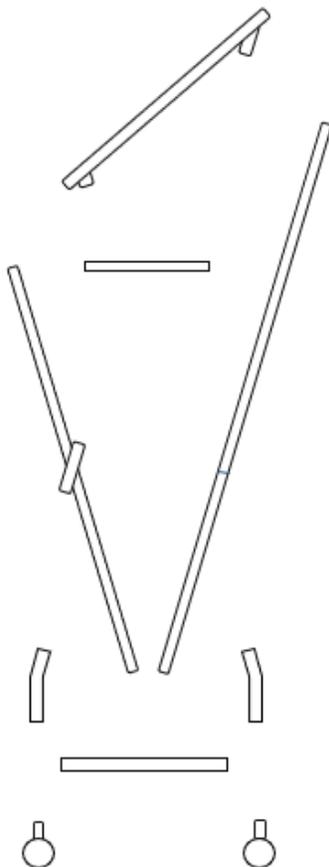


Battery Compartment including Charger, USB Ports, Smart Plugs, Wireless Controller with WIFI/Bluetooth, GPS (linked to weather forecast), and Smartphone Monitoring

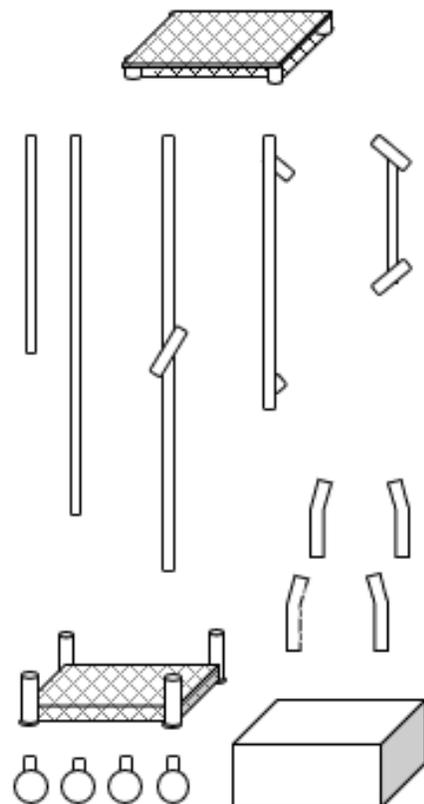
Dual Axis Wind Turbine



Modular Frame Assembly



Fabrication Frame and Compartment Parts



Video Photos



Hybrid wind turbines offer unique dual axis technology by integrating one or two generators which work independently in low wind speed or work simultaneously in extreme weather. The tower array includes a solar panel to generate additional renewable energy power plus the giant wind turbine tower passageway is much safer for flying wildlife.

My First Prototype

(I built my dual axis turbine prototype all by myself)

3. Prototype and Proof of Concept



The test results proved both generators were equally torqued by the blades.

The 24 gauge sheet metal blades began to bow inwardly bending the metal frame at 25 mph. The wing turbine blades were heavy had I use aluminum blades the outcome would of proved more output.

The two alternators were salvaged from a recycling bin. Had the alternator been larger the production output would have surpassed 10 watts.

We did not get the readings for both alternator output calculations.

The test ended as I drove home the turbine kept spinning and bent straight off the hinges with hook end. No doubt the turbine could have spun faster.

I currently am working with 22 gauge aluminum blades. I plan to finish three similar sized turbines in the empty motor compartments of my 1985 Ford Ranger EV conversion. This is to test how the turbine will operate inside the front vehicle with ventilation. Hopefully I can prove that the three REPS turbines can help to extend an EV's long range mileage. The concept is a Hybrid Renewable Energy EV which utilizes two or more energy sources working in conjunction with each other to produce sustainable electric energy via solar power and wind turbine power and high efficient piezoelectric panels. This is one of my future application projects.