DOCKETED	
Docket Number:	19-ERDD-01
Project Title:	Research Idea Exchange
TN #:	225084
Document Title:	Carla R Gillett Comments Safer Wind Farm Alternative
Description:	N/A
Filer:	System
Organization:	Carla R Gillett
Submitter Role:	Public
Submission Date:	10/25/2018 11:29:35 AM
Docketed Date:	10/25/2018

Comment Received From: Carla R Gillett

Submitted On: 10/25/2018 Docket Number: 19-ERDD-01

Safer Wind Farm Alternative

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 accessary 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:

- \cdot 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.

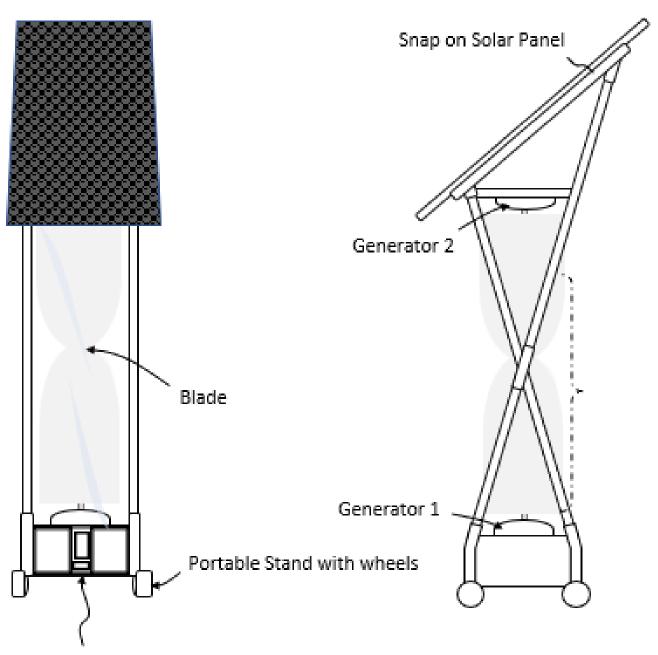
Thank you!

Learn about accountability on Kickstarter

Questions about this project? **Check out the FAQ**

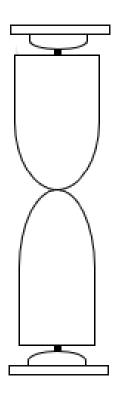
Portable Hybrid Solar Generator Kit

Front View Side View

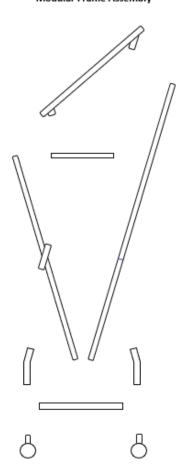


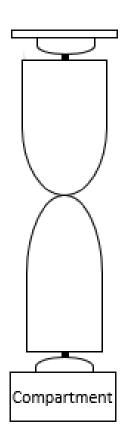
Battery Compartment including Charger, USB Ports, Smart Plugs, Wireless Controller with WIFI/Bluetooth, GPS (linked to weather forecast), and Smartphone Monitoring

Dual Axis Wind Turbine

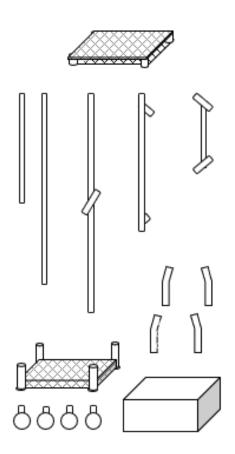




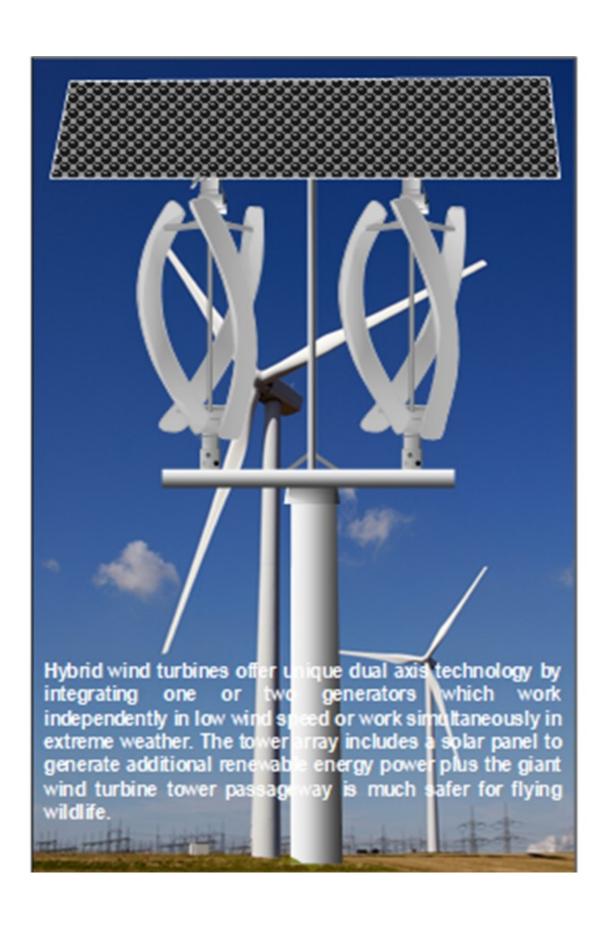




Fabrication Frame and Compartment Parts



Video Photos



My First Prototype

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





The test results proved both governors were equally torqued by the biodes.

The 26 gauge sheet rertal Madex Impat to how memorify hanging the metal frome at 55 tepts. The wing turbine blades more heavy had I too alterious blades the extreme would of proved soon output.

The two alternature were sulvaged firsts a recycling bits. Had the alternator been larger the production mappet would have memored 10 wells.

We did not per the realizes for both alternative unperstealcallulates.

The test coded as I drove home the tartime kept spiriting and best straight off the beaugre conds bank and. No doubt the tartime could have upon factor.

I convently arry working with 22 gauge abstraines bladue, I plan to facuus these similar stock turbines in the empty master compartment of my 1965 Ford Ranger CV conventions. This is to not have the turbine will rejected assiste for five actuals with variationar. Hopefully I can prove that the firm REPS turbines was both to extend as EV's long surger militage. The concept is a Hybrid Rangewhite Energy EV which influent two or more chargy assisten working in comparation with each other to greatener message transfer with each other to greatener message transfer before power and high affliction picondectric possels. This is one of my future application presents.