

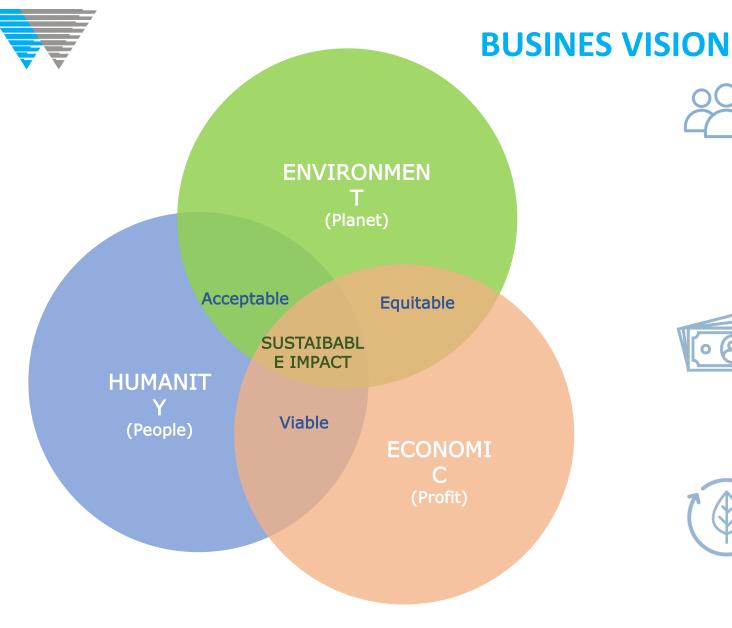


BUSINESS PHILOSOPHY



communities and organisations through clean technologies and innovation that drives our Mission to "Decarbonize Planet Earth"

A GLOBAL APPROACH FOR REGIONAL GROWTH



Sustainable impact, by optimising triple benefits



HUMANITY (People)

- Solutions for multiple applications
- Electrification Support to Livelihood creation Rural electrification PHCs and cottage industries educational institutions
- Engaging in national security



ECONOMY

6PDirect

Payback within short duration Savings

Indirect

Benefits to various sector through value engineered technology



ENVIRONMENT (Planet)

- Conserve non-renewable sources
- Zero carbon emissions
- Eco-friendly

Very low decibel sound Aviary safe



The Company: Windstream Energy Technologies India Pvt Ltd



9 YEARS IN DECARBONIZING THE PLANET EARTH (INCORPORATED IN THE YEAR 2013) WORLDWIDE PATENTS FOR TECHNOLOGY, DESIGN, AND FORM

2013

The first and only company in Southeast Asia, consistently offering unique hybridenergy solutions since its inception, through installations even in challenging environments

FULL-FLEDGED IN-HOUSE MANUFACTURING FACILITY, CLOSE TO HYDERABAD INTL. AIRPORT, INDIA

Products and process, adhere to international standards and certifications; recommended by several premier institutions and organizations in public sector, Product is ISO certified, NIWE Certified, CE Certified etc



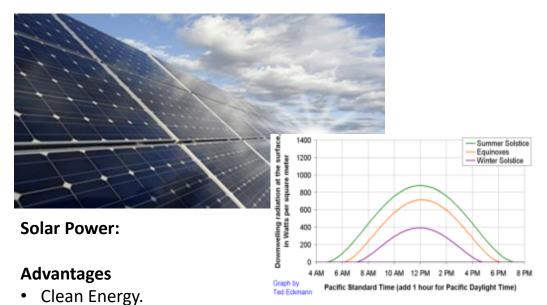
EMERGED AS A PIONEER, ADDRESSING DIVERSE MARKETS AND ECONOMIES, WITH **INSTALLATIONS IN 35 COUNTRIES**

2022

Won numerous innovation and Industry awards for the path-breaking application, with endless possibilities



Solar and Wind Energy Advantages and Disadvantages



- Sustainable
- Power to Remote Areas.
- Can be Installed on Rooftops.
- Global Availability.
- Silent.

Challenges:

- Available only 4 to 6 hrs in a day.
- It requires large areas.
- Expensive As storage is required for usage during non sunny hours.
- Seasonality.



- Cost Effective.
- Use of Modern Technology.
- Rapid Growth and Huge Potential.
- Can be Built on Existing Farms.

Challenges:

- Wind Reliability.
- Threat to Wildlife.
- Noise Pollution.
- Expensive to Set Up & Seasonality.
- Suitable for Certain Locations only.
- 4 states in India are suitable for high winds

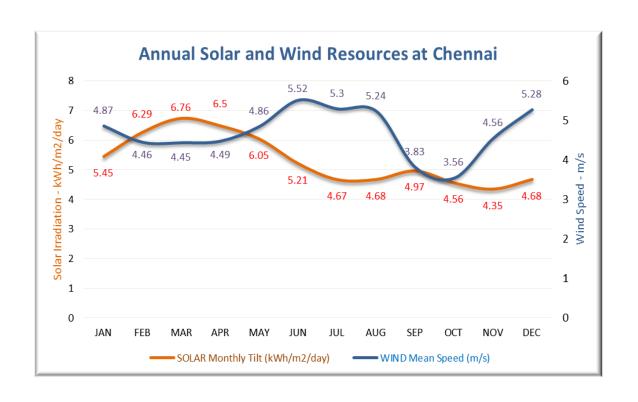


Why Hybrid

Advantages of Hybrid

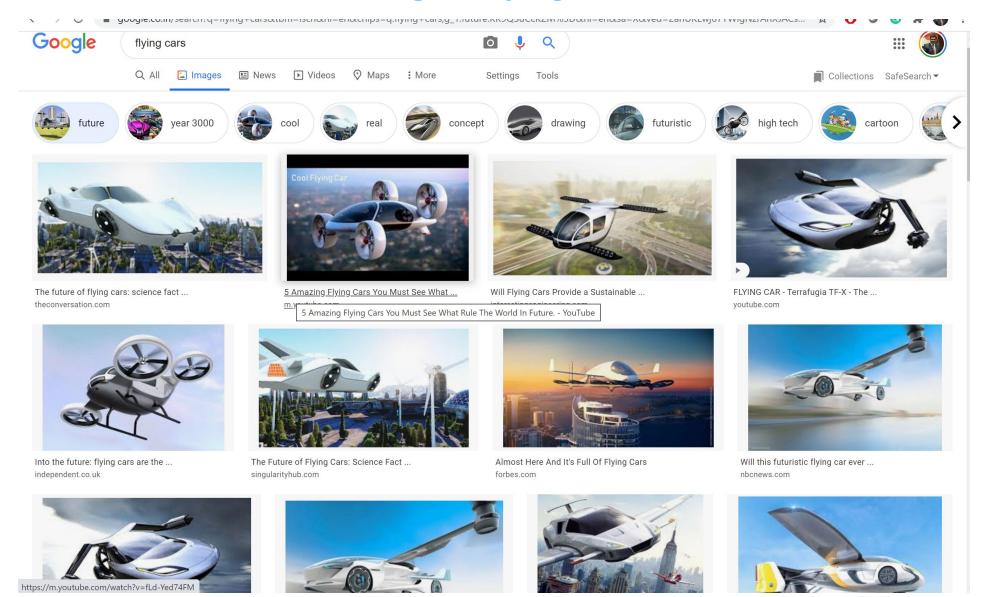
- More energy density (more energy per sq. area)
- Best Suitable for Distributed energy
- Solutions can be custom designed based on the needs
- Prolongs Storage Life as there will be continuous power generation (smooth battery charging and discharging).

Typical Wind Solar Graph



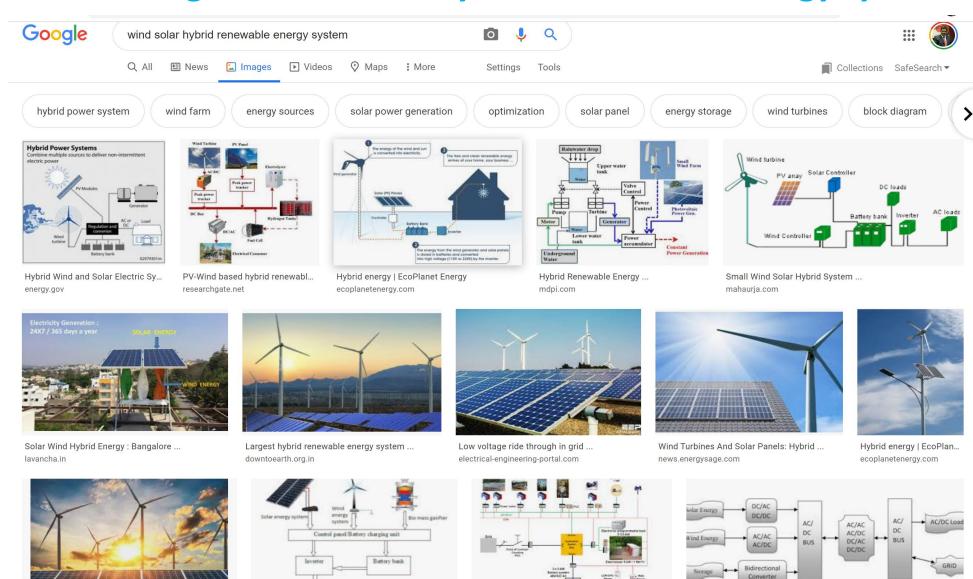


Google: Flying Cars





Google: Wind Solar Hybrid Renewable Energy system





Problems of Small-Wind Solar Hybrid Solutions

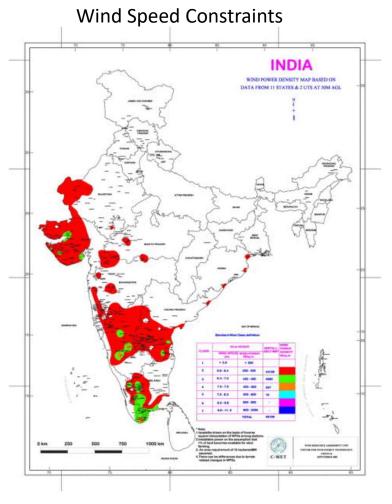
Short Life(due Broken Tails)





Fire Due to High Winds (No Brakes)







WindStream's Unique solution - SolarMill



The simple, efficient & cost-effective Solution

- 3 Vertical-Axis Wind Turbines coupled to 3 permanent magnet generators.
- Automatic Mechanical Breaking.
- On-Board "Smart" Electronics include dynamic Maximum Power Point Tracking.
- Multiple Unit Interconnects.
- Easy Connection On-Grid and Off-Grid.
- Easy to mount on any rooftop.
- No complicated masts, guy wires, or towers.

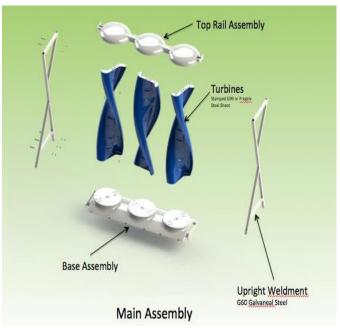
Advantages

- Simple ballasted installation that avoids roof penetration.
- Higher power density per square foot.
- Scalable power generation.
- Environment-friendly, silent operation.
- Best Suitable for Distributed energy
- Solutions can be custom designed based on the needs
- Increases the battery life & minimizes the battery storage capacity.
- Aesthetics





SolarMill – Material and Construction

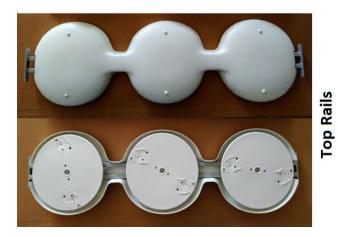








Permanent Magnet Generator







WindStream – SolarMill configurations

Scalable and Modular





WindStream Product verticals

- 1. Tower Mill^{XL}
- 2. Rooftops
- 3. Mobile Mill™
- 4. SolarMill EV charging
- 5. SolarMill Fisheries
- 6. FloatMills ™
- 7. PowerMill™

New Products

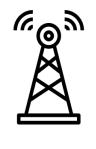
- 1. ChillerMill™
- 2. ChamberMills™
- 3. Solar/Hybrid Street Lights



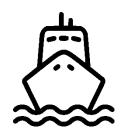


Domains we are in:















Defence

Telecom

Railways

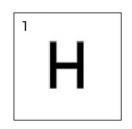
Marine Transport

Fisheries

Rural Electrification Healthcare















Agriculture

Education Green Hydrogen

E-Mobility

Disaster Management

Aviation Residential & Industry



Defence Solutions:

Solutions for Powering

- Mini-Grid for Shelters
- Battery Charging Equipment
- Communication Towers
- Defence post
- Mobile Generator
- Security Tower













Telecom Solutions:

Solution that is:

- Unique
- More Reliable & Stable Power
- No interference with
 Communication equipment
- Diesel saving
- Modular design to install at various levels of Tower
- Silent in operation
- No threat to Wildlife















Fisheries & Marine Solutions

Solutions for Powering:

- Fish Farming
- Boats and Ferries
- Freezers
- Water makers
- Ice plant
- Fishing villages













Railways

Solutions for Powering

- Station electrification
- Signalling
- Level crossing
- Railway offices









Rural Development & Health care

Solutions for Powering:

- Streetlights
- Hamlets
- Village electrification
- Cottage industries
 - Spinning
 - Weaving











Education

Solutions for Powering

- Schools in Remote area and tribal area
- Digital class Rooms

Can also be used for

- Lab Demos
- Social experiments for students









Agriculture

Solutions for Powering:

- Chillers & Freezers
- Water Pumps
- Mini Cold Chambers
- Dryers
- Animal sheds











E- Mobility

Solutions for:

- Powering Charging stations for
 - Two wheelers
 - Four Wheelers

Fast chargers











Aviation

Solutions for Powering:

- Airports
 - Non Critical loads
 - Common lighting
 - Street Lights
 - Signals
- Drone Charge stations









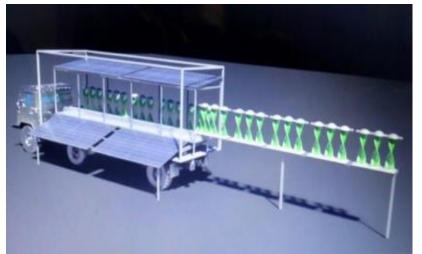
Solutions for Powering:

- Powering Defence exercises
- Tactical location

Solutions for:

- Disaster Management
- Temporary Powering in
 - critical Locations
 - Tactical situations







Business and Residential

Solutions for Powering:

- Non Critical loads
- Common lighting
- Street Lights

Solutions for

- On-Grid
- Off-Grid
- Net metering applications























Soon Will Be Powering for Generation of Green Hydrogen



Govt Of India and Industry affiliations

Business Affiliation:







Technology Affiliation:







Certifications from:













Academic affiliations



Projects being taken up:

- Design stabilization
- Study of Savonius wind turbine and its behaviour
- Usage of 3D printing in Wind Turbines
- Design and development of micro Generators etc.,



Awards and Accomplishments

















Government Clients



































Other Clients

































Across The World



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