

Partnership Opportunity

P.G Solar Greener

P.G Solar Greener is a company developed a breakthrough innovative, patent protected solutions for the renewable energy industry.

Peter Graner the founder and CEO of P.G Solar is a professional engineer, Electric technician and Motorcycle mechanic, with more than 40 years of experience in the Design, Manufacture and Air automation consulter of customized equipment for: assembly machines, industrial heat transfer and generators. <u>Ultra-hybrid panels</u> project on a building roof





P.G Solar Greener Technolgies

1. Flywheel Engine Generating and Storing Energy

A Flywheel Engine with peripheral chambers fed by Multi-Stage Jets Boosters of: Compressed Air, Steam, Compressed Water.

There is an option for Compressed Air combined with Hydrogen (a replacement for a conventional combustion engine currently available in the world)

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2. Ultra Hybrid Bifacial PV & Residual Hot Water solar panel

Micro-Grid, coupled with Ultra Hybrid Bifacial Electric & Residual Hot Water solar panel (PVT), integrated with Energies and the Flywheel Engine Generator.

2 Stages Increased Efficiency



Bifacial PV cooling Increased Electrical Power Generation Generating More Usable Electricity & Hot Water on the same platform combine Hybrid A/C Generating PV Electricity & (+) 35% Residual Hot Water Accumulate Electricity + Hot <u>Water/A</u>ir Hybrid Air "Battery" Storage

How does it work?



UPS Generating

PG's Integrated Panels

- A breakthrough patented of Micro-Grid, coupled Solar PVT with Storage and Air/Water/Steam Electric generation.
- Ultra Hybrid Air/Hydrogen "Battery" Storage.
- same price compared to Lithium batteries storage at the same volume.

P.G Solar Greener Vs Lithium Batteries

Datteries		
	P.G Solar	Lithium Batteries
Storage long duration (above 24 hours)	YES	NO
Use <u>Medium Pressure</u> (Not Explosive)	YES	
Uses standard & locally available materials & Maintenance	YES	NO
Safety (Flammable)	YES	NO
Renewable Energy Green	YES	NO
Hazardous waste <u>removal at END of</u> <u>LIFE</u>	NO	YES
Yearly Performance Degradation	0	2-3%
Life Expectancy	50+ Years	10-12 years

How can potential collaboration benefit?

- **New strategic markets** Competative edge in the urban environemnt.
- Operation costs and efficiency Increased FlyWheel Engine (turbine) efficiency and reduced construction, operation, and maintenance costs.
- Increased Storage Ability to Store Energy from the Steam/Low cost Electricity at night and low consumption periods, reuse energy with fast boost response.
- Ability to replace Lithium batteries, removing the need to replace batteries over time.

A Potential Energy Generation & Storage projects in Germany & Israel

A project with Geothermal Energies in Germany

- combining geothermal energy with Flywheel Engine (turbines) to generate electricity. As well as EPC.
- P.G Solar Greener will bring its Hybrid Flywheel Engine generate electricity and Energy Storage & Hybrid PV Thermal Systems and technology knowledge.

Thank you!

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