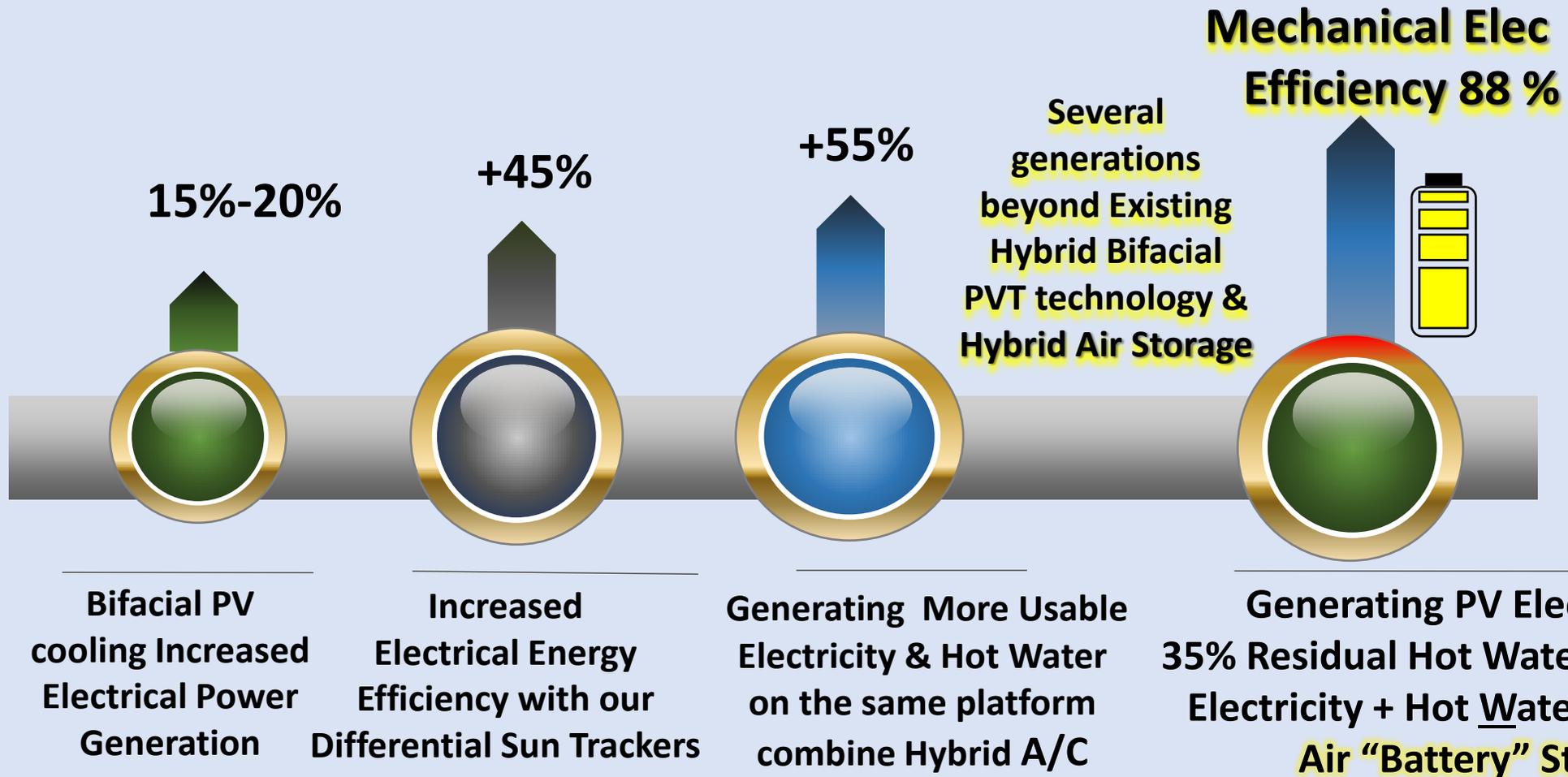


UPS Ultra PhotoVoltaic Solar

Revolutionary HYBRID **Dual-Faced** (Bifacial) PV and Thermal
& **Hybrid Mechanical Air “Battery” Storage & Recovered Heat** innovations



P.G Solar Greener Versus Lithium Batteries
- Competitive advantage



**No
Competition**

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

Ultra Hybrid Air/Steam “Battery” Storage
same price compared to Lithium batteries
storage at the same volume

P.G Solar Greener has launched a breakthrough patented of Micro-Grid, coupled with Ultra Hybrid Bifacial Electric & Hot Water solar panel, integrated Compressed Air or Air/Hydrogen or any exist residential/commercial compressed Water, those Energy supplies, drives the "Mechanical Peripheral Flywheel Engine" as “Battery-Storage“, the most Efficient/Economical Electric Generator. Currently, water heaters/tanks are largely powered by natural Gas/Electric/fossil fuels, obliged to pay money compared to solar option which is Free most of the year.

Ultra PhotoVoltaic Solar Commercial HYBRID PV Thermal

Mechanical Efficiency 88% (No Degradation)

& Hybrid Mechanical Air/Steam/Water/Hydrogen "Battery" Storage

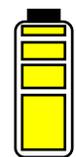
Air/Steam/Hydrogen/Water -
Engine Ultra
High Efficiency Flywheel

Option;
Hydrogen



Air/Steam/
Hydrogen/Water-
Chambers

Hybrid Mechanical
"Battery" Storage



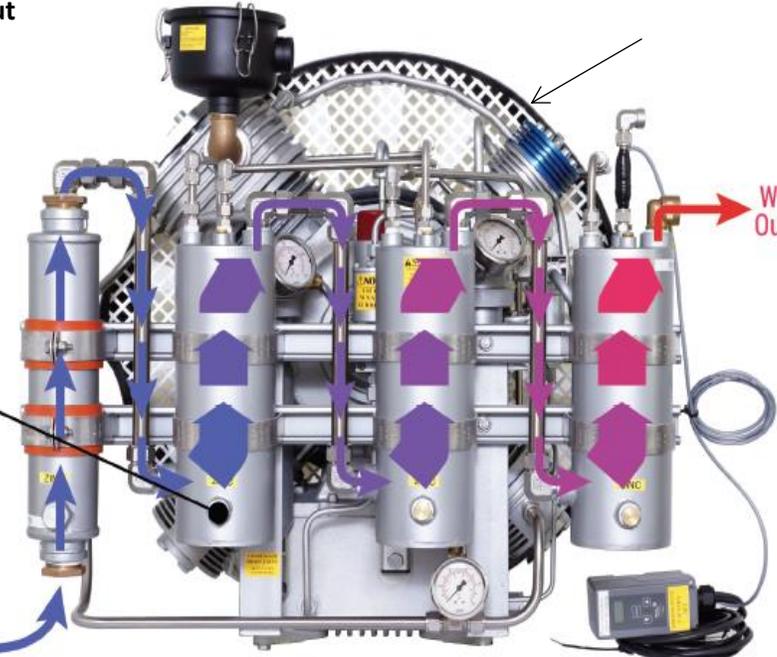
High Pressure Air
Tanks Storage
(spring)

Air-Engine Vehicles
Option; Hydrogen Fuel
(High Pressure)

Air Out Air Input



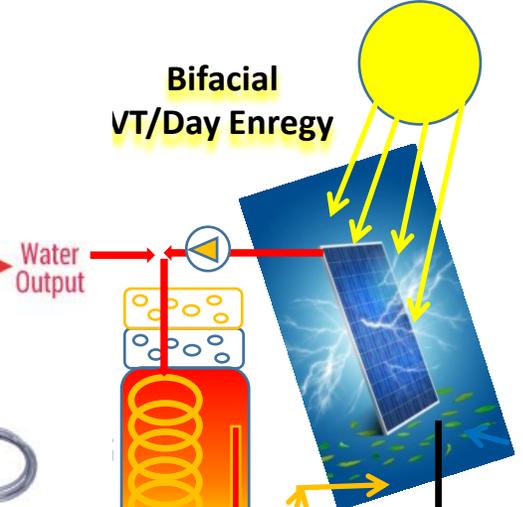
Water Input



Air Hybrid Compressor
Residual/Heat Recovery
High or Low Pressure

UPS Generating Electricity
& Residual water Preheat
on same platform

Bifacial
VT/Day Enregy



Water Output

EL AC
Day
Supply

Hybrid
A/C

Accumulate
Solar Electricity
EV work Day charge
& Night Discharge



- 1 When the machine is running, water is pumped through the coolers.
- 2 The water coolers are used in place of the regular air cooling tubes.
- 3 The heated water can be used in water Boiler or Space





YES
you can!

Patent 255843 PCT/IL2019050627 & Patent 298179
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