

RED SUN LINES



**Train, Ship & Power Plant Retorfits
30 MW to 300 MW**



[Wwww.fibonacimotors.com](http://www.fibonacimotors.com)



~ www.max-mesh.com



ENERGIME GREEN GROUP, THAILAND , Ltd.

Thermal Electric Platform Charges-up @ 3c/kWh & RED SUN MOBILE Thermal Power Plant

ENERGIME GREEN GROUP has developed technology tested & output-certified by **Rolls Royce**, and **British Atmospheric Data Institute**, running large 2.5 MW turbines at high efficiency for over a year. RED SUN is the world-wide exclusive franchise for Infrared reflection to enable focusing & collecting the full spectrum of heat and light giving 1620°C for the 1st time! Additional co-patents allow molten steel 30 MW storage units 18m³ for 24 hr operations – 3-day operation with railcar storage of up to 212 MW for heat/AC & compressed Air modified Diesels: Boesch, Man, Gebruder Suizer, and Deutz.



Based on **RED SUN's** Exclusive Infrared Focusing Collection & Solid Heat Transfer and Storage Medium with a Combined Cycle Steam Power Plant – **97% of Sun's Energy used!**

Phase I: Retrofit 10 GE Locomotives to build the RED SUN LINES; while delivering hydroelectric collected in Mexico

+Train Station Charging: Building wind farms/Charging stations &

Phase II: Converting Solar Thermal into Large-scale power that runs powerplants *with mobile 30 MW battery that runs diesel & turbines without fuel + AC/Steam/heat using advanced technology to transport energy cylinders to ports of Mexico, Cancun & Belize:*



RED SUN 32 MW (29t) Thermal Batteries recharge while in operation and have a 200 km radius with one 4 hour charge. RED SUN batteries can charge up at hydroelectric at night and deliver baseload power & run train, buse, tram, ships, train station & port



Solar Thermal Dishes Collect Solar Infrared Radiation to Substitute the Use of Electrical Induction for Heat Creation

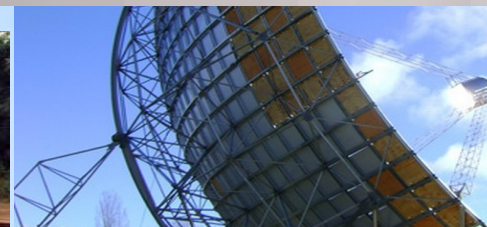
Exclusive patented Infrared focusing systems allow 1700°C with rated 22 meter Dishes, with exclusive ceramic graphite 30 MW battery systems featured that fill-up in 2 hours for collecting off-peak wind farm energy, while transforming the rail to grid with $1600\text{-}1700^{\circ}\text{C}$ stored thermal energy at high temperatures and to reduce the foot print of the solar plant. A solar dish placed on a cement base has 500 M2 of 3M film and polished aluminum. The solar dishes can create solar concentrations of up to 950 suns and create over $1,800^{\circ}\text{C}$ in heat. The actual solar energy available and captured and delivered to the thermal storage system incurs only a 7% process loss.

Troughs do not create enough heat for energy storage. Instead troughs create heat around 400°C and is used right away to produce steam (base loaded). Troughs can concentrate the sun up to 150 times.

- ❖ The proposed solar thermal power plant requires around 50% less area than a conventional PVC power plant to produce a certain amount of electrical power.

Opportunity is to eliminate the costs and emissions from the burning of fossil fuels in industrial size boiler+storing at 1700°C to run compressed air modified diesel engine as 1840's. For 75yrs Pneumatic Trains ran in Austria, Germany, USA, UK, France, Belgium!

- ❖ Power price arbitrage opportunity in charge up at night from Hydroelectric and deliver in the day by rail and charging the RED SUN LINES for freight and mining service pays big dividends to Mexico, plus subsidizing passenger travel. Also, converting electricity at renewable power plants such as solar and wind into thermal energy to be transported by rail to Grid at \$150 USD per MWh & run stations/airport



RED SUN 30 MW

**Gives up to 700 km
(65,000 kWh)**

Mirror

Aluminum dish reflects radiation

26,000 MMBTUs of transportable thermal energy Per 90 MW nominal thermal capacity. This is equivalent to over 1,000 ST of steam coal.

Thermal Energy storage units once charged can travel by rail to a load center for use. Energy can be stored for over 1 month

* Superconductor (1000-1800 oC)

fluxo em hora

Each Dish produces 160 kW to 250 kWh of Thermal Energy

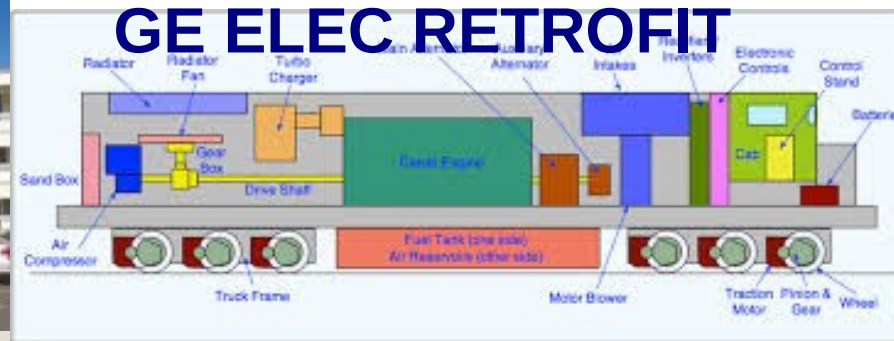
* Acumulador de calor (metais fundidos)

Superconductor for heat (900°C to 1600°C)

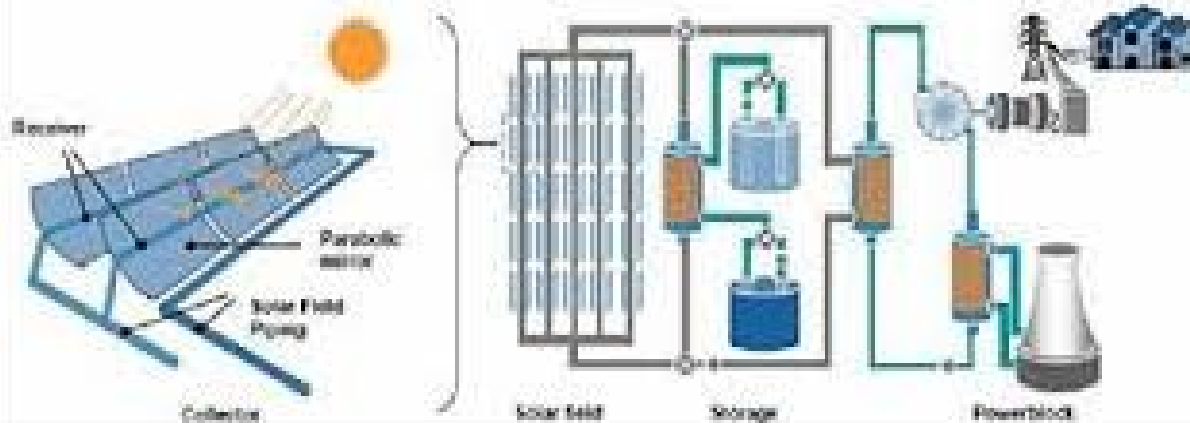
Electrical induction charger. Power is from the Grid

Other Applications to develop: Create Heat in One Location & Transport to Another Location to Use for Industrial Processes

GE ELEC RETROFIT



**+ 64 MW
Battery car
36m3~54
tons**



**RED SUN Infrared
Troughs reach 1100°C**





RED SUN Liq Nitro 1500X's Expansion Huge HP!

RED SUN Liquid Nitrogen High-Torque System twice gasoline energy

"Only nuclear power can store more energy than a RED SUN battery," says Vencat. "Yet our technology is safer than an art-class kiln." With it, we can possibly increase the thermal efficiency of an engine by as much as 30 percent, and can retrofit any internal combustion engine old or new, he says.

The battery works as a result of the properties of liquid nitrogen which expands nearly 600 times its volume when heated to room temperature 20°C (68°F) and when heated to 500°C (932°F) the expansion is extraordinary, far more than diesel combustion. In a large maritime application, the liquid nitrogen or compressed air can be manufactured on board!

This energy can run a steam generator with sufficient energy to power for a small onboard liquefied nitrogen plant or compressor. These commercial liquid nitrogen plants are off-the-shelf and skid-mounted. All of the liquid nitrogen needed can be produced from the air while the vessel is in transit!

RED SUN

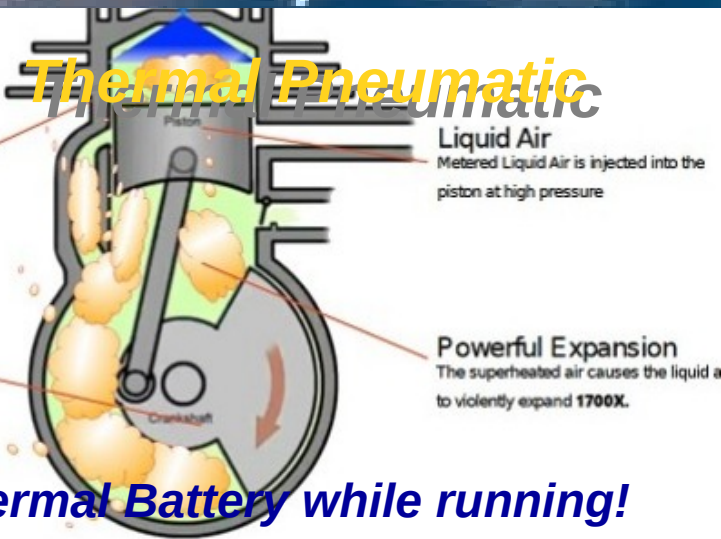
Thermal Pneumatic

Superheated Air
Metered Air Superheated by the Perryman Thermal Battery is injected into the Piston

Liquid Air
Metered Liquid Air is injected into the piston at high pressure

Power Stroke
Gasoline expands approx 1400X during combustion
- Liquid air expands approx **1700X** during expansion producing far more power and zero pollution

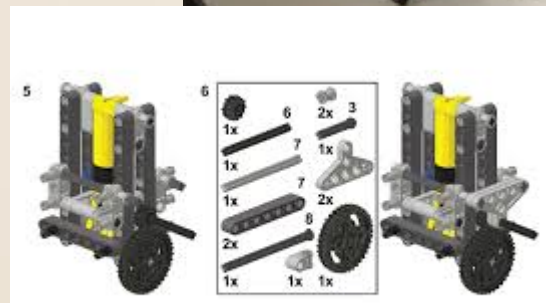
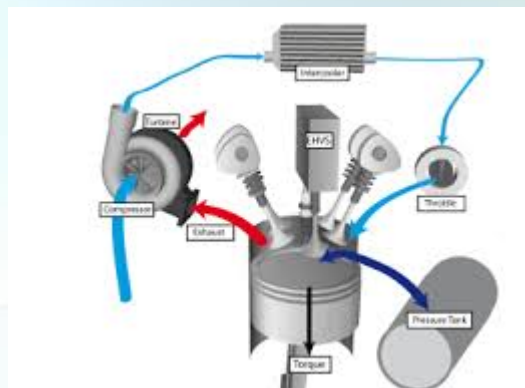
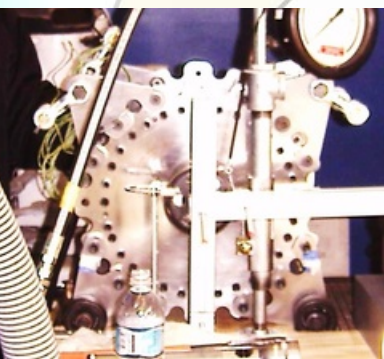
Powerful Expansion
The superheated air causes the liquid air to violently expand **1700X**.

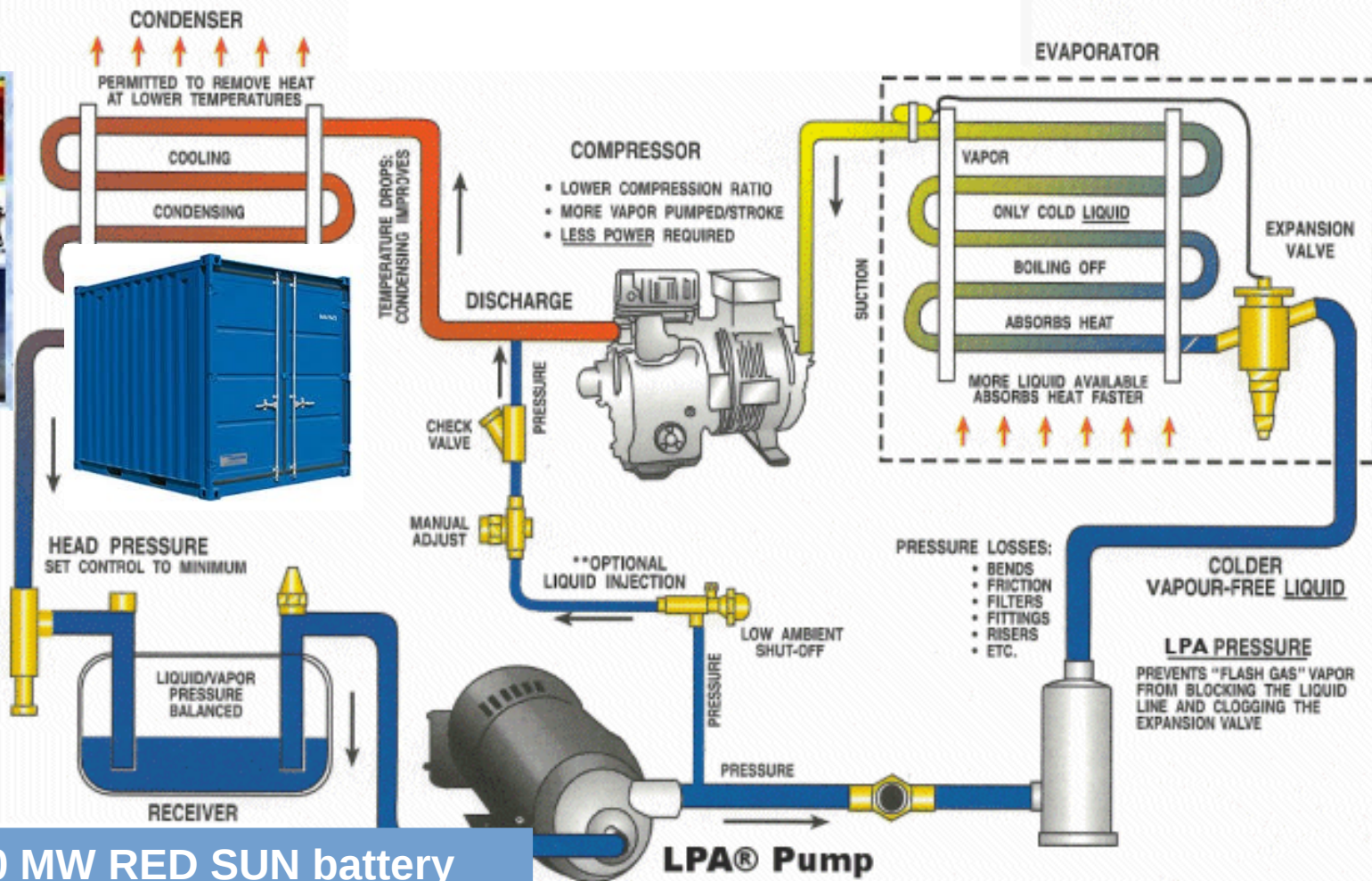
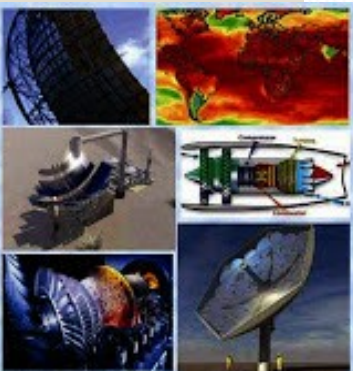


Recharges Thermal Battery while running!

RED SUN LINES

Heated Compress Air= 20kWh/kg vs. 9.7 kWh/kg gasoline





www.hysave.com

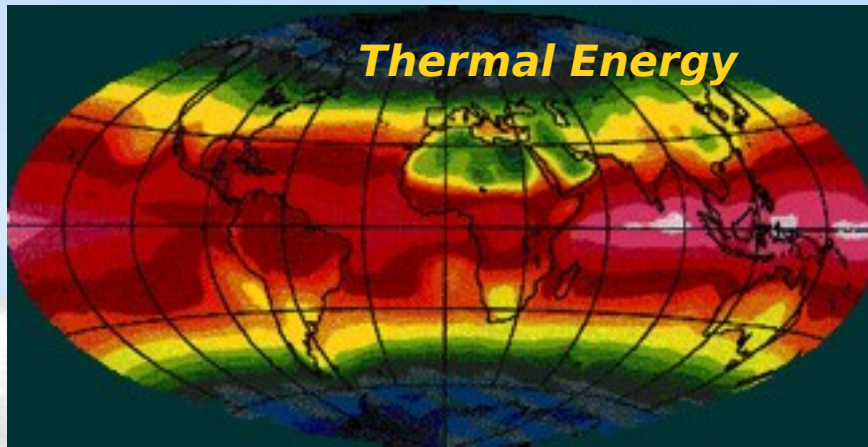
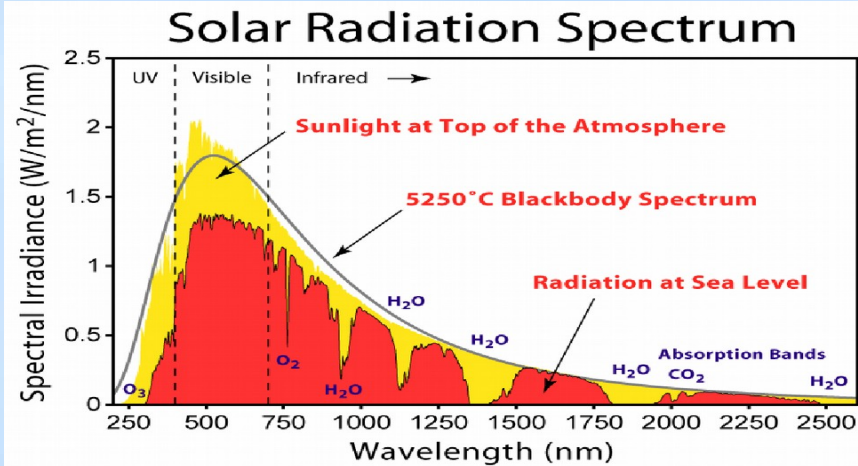
30 MW RED SUN battery
give 65,000 kWh at 3c/kWh



RED SUN Desalination
Water energy cost: 40c/m3



RED SUN Advanced Thermal Storage Unit



Long wave radiation is collected with visible spectrum to operate at 1600°C in the yellow and red zones (Bangkok is red zone) shown in the solar radiation map below. RED SUN features a solid state thermal battery made of graphite ceramics as storage unit that can store large amounts of thermal energy in a relatively small footprint.

- A 32 MW RED SUN unit weighs 29 tons, is 18 M3 and can store up to 30 MW of thermal energy for in excess of 30 days. 200 kW as big as suitcase!

The unit will hold energy up to 1600°C and deliver that energy in a measured and consistent manner. The thermal loss of the storage unit is 1°C per day

- A rail car shown on left is mounted with 90 MT of phase changing alloys can store 26,000 MMBTUs of thermal energy which is equivalent to over 1,000 ST of steam coal.

RED SUN Station Retrofit Program for running train, bus, airports & Electric Charging Stations at 3 cents/kWh:

With insurance on all equipment and performance based on over 50 years of successfully transporting molten steel to Sweden from Russia, Thyssenkrupp and RAFT provide the solid reliable thermal systems that are integrated into RED SUN. With the full package now completed, including JV's, permit, power purchase agreements and approval by govt solar committee.

Also, an "ALL-INCLUSIVE" insurance wrap has been arranged for up to 100 MW in the first phase Mexico power purchase agreements, through two top-rated insurance companies.

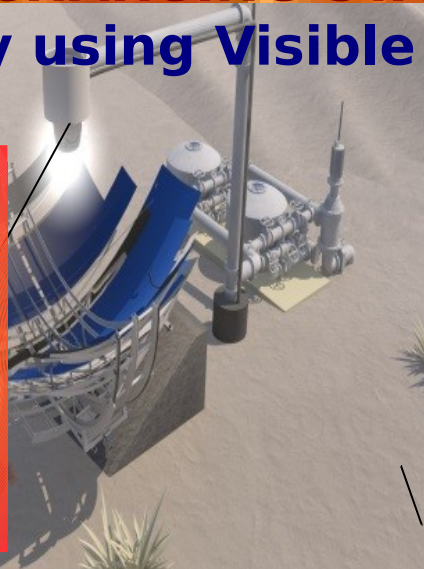
RED SUN, EGGt & 3M have tested their systems for solar concentration for years, to generate power and electricity as well as making air conditioning, heat and steam to run combined cycle power plants. In some industrial locations

RED SUN will subsidize passenger traffic with freight and mining transportation and delivery as mining traditionally built the railroad industry in North America.

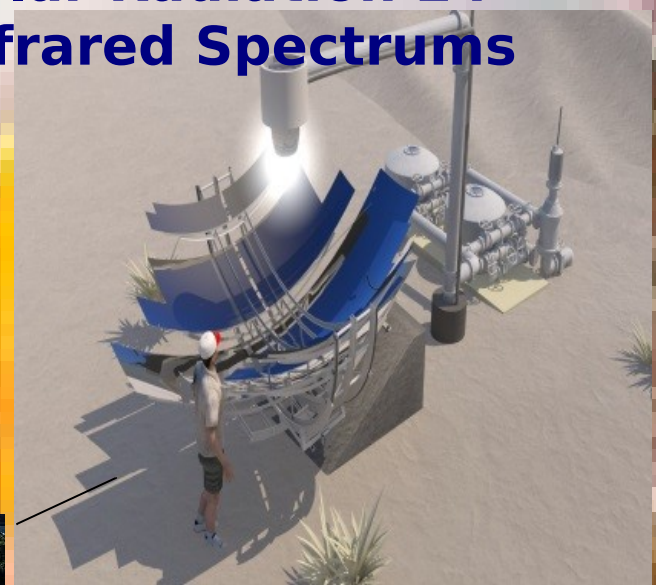


RED SUN CHARGING STATIONS: Solar Radiation 24 Hours/Day using Visible light & Infrared Spectrums

Heating compressed air in modified Man, GE and Cummins diesel runs generators without fuel with Combined cycle low pressure steam gives overall 65% efficiency!



- Polished Aluminum
- & 3 M Film
- 3 M film reflect up to 2800 um and polished aluminum reflect solar radiation up to 12000 um



* Double Mirror



* Polished Aluminum on the dish reflects solar radiation



fluxo em horário noturno



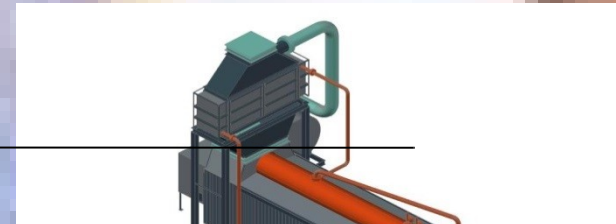
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* Acumulador de calor (metais fundidos)

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Thermal Energy storage units once charged can travel by rail to a load center for use. Energy can



RED SUN ARBITRAGE: Create Heat in One Location & Transport to Another Location to Use for Apts/Hotels/Industrial Processes

RED SUN LINES & RED SUN ARBITRAGE



RED SUN CHARGING
STATIONS 3c/kWh

RED SUN AIR
CONDITIONERS:

RED SUN FUELLESS
TRAINS

RED SUN TRAIN
STATION RETROFITS

\$3.9m Train 64 MW Retrofits
Give 700 to 1400 Radius/chg
12 ways to recharge Battery!

EGG, Ltd has developed 30 MW Thermal batteries to retrofit and drive diesel and Brayton Combined Cycle gas plants. This brings back the successful Thermal Pneumatic Locomotives for Mexico. This will be used to deliver **RED SUN** Electricity to grid + H2O to train stations/airports with PPAs. Projects also feature exclusive RED SUN solar thermal & **POWERTOWER** low-wind turbines+ AC Steam+ Heat sold to industrial clients+ Ship/train Retrofits.

Tariff for these projects is \$0.15 per kWh first 20 years. AC is in much demand and sells for 10 cents per kWh and heat and steam sells for 7 cents per kWh. Plus delivered ice to each station \$330/MT

Mexico has a *Standard and Poor* rating of BBB+ with Insurance wrap available from a top-rated Insurer on equipment, performance, and output, as well as on construction build-out.

PowerSource - under the covers



PowerSource Home
in its
enclosure



Inside is a
Thermal
Storage Cell
w induction
charger



System
controls



Under the skin, contained in attractive encasement, the basic PowerSource "Home" System includes the ceramic thermal cell, induction heater, controls, and steam turbine (with composite non-corroding pressure vessel, stainless steel expansion tank & return drive fluid container).



Turbine enclosure
with reservoir



High pressure tank
w/ integrated boiler



5 kW steam turbine
& alternator



Expansion
tank





Electrical Induction Charger (Power from the Grid)

RED SUN Thermal Energy Storage to power Trains & industry - Compressed Air & Steam Power Plants 9,600 BTUs/kWh at 65% Efficiency



Direct Condensing Low Pressure Turbine Generator



Steam Generator

* High temperature superconductor (1600-1800 oC)

* Heat Exchanger (convective induction)



Phase Changing Metal Thermal Energy Accumulator (Phase Changing Copper & Nickel Alloys)

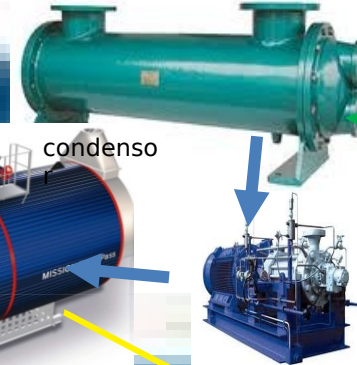
Compressed Air



Air Accumulators

Super Heated Air Compressor at 1100 oC

Mechanical



condenso

Stage 2

Cooling Tower



Cooling Water Pump



Condensor Pump



Stage 1

MAN Diesel Generator Modified to Run on Heated Compressed Air



Low Pressure Air at 900 oC

Battery Self-Charging- Medium- Ship, D9, or big mining equip.:

A): PowerSource 40 MW ~9 MWhe ~32MW~65MWh:

B.) 30 MW RED SUN or two flat ones no higher than 135 cm, fit two on a rail car lengthwise - The real battery car.

PowerSourceVolvo 440 Power Plant

Type	Max power (hp)	Max power (kW)	Max torque (Nm)
D13A400	400	294	2000
D13A440	440	324	2200
D13A480	480	353	2400
D13A520	520	382	2500



Thermal

Diesel Engine

Mechanical



Retrofit gensets ship & bus
RED SUN diesel rail heated
injected compressed Air

Hybrids

Run Buses/Ships/Trucks
Trams/Trains/Ferries/Taxi



At full power it burns something over 200 gallons per hour. So you need to make some guesses about how much time it's spending idling and how much at full power, and how fast it's covering the miles. 3000 gals x \$3/gal = \$9000 USD per day ave for train with 37 cars

Charging 30 MW Batteries-4hr

You would save approximately \$8100 per day x 360 = \$2,916,000 per year savings.

So- If- you save the client 45% of that after expenses = \$1.31 million per year savings And; Efficiency Contract fee could be \$1.3 million per year- paying-off in 1-2 years!

Self-Charging Diesel Train:

Total Fuel Savings per year = \$2.9 mln

TRAIN or Ship RED SUN RETROFIT Budget: -
RED SUN 30 MW battery costs \$300,000
NG2 Implosion Heat exchanger- Train -
CHIEFS System - \$125,000
Aux. heat transfer - \$75,000
RED SUN AIR CONDITIONERS: 5 x - \$250,000
(on retrofit- we go without Induction Steam C
Inductortherm Induction unit - \$300,000
Installation \$125,000
Axial Generator(s) - \$25,000-\$30,000

Entire Capex of Efficiency Contract pays off 2yrs+100% clean-up of emissions!

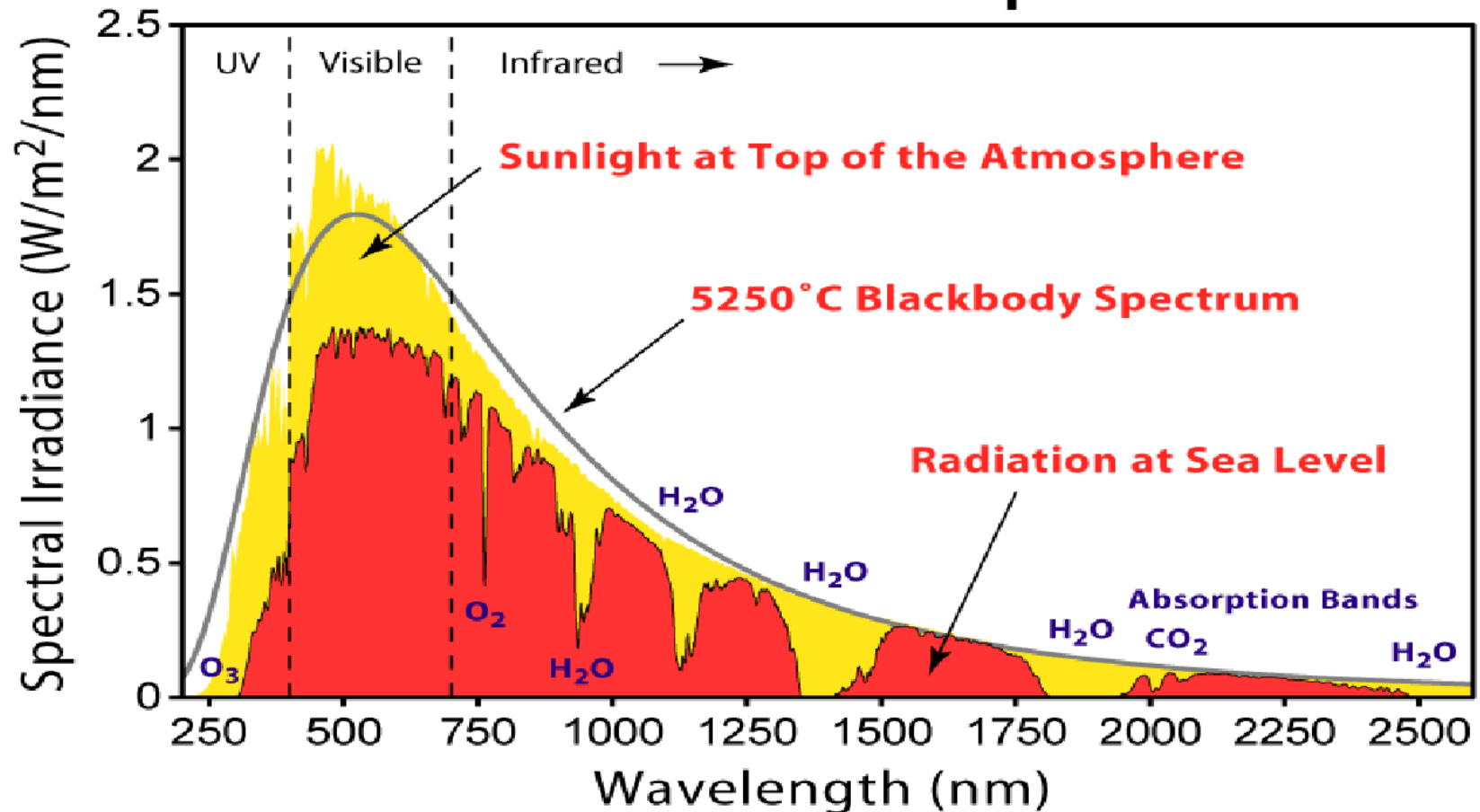


Yacht & Industrial Electric & 1500°C Heat & Steam Packages



Use of Infrared Dishes & Troughs to Collect Solar Radiation to Substitute the Use of Electrical Induction for Heat Creation

Solar Radiation Spectrum

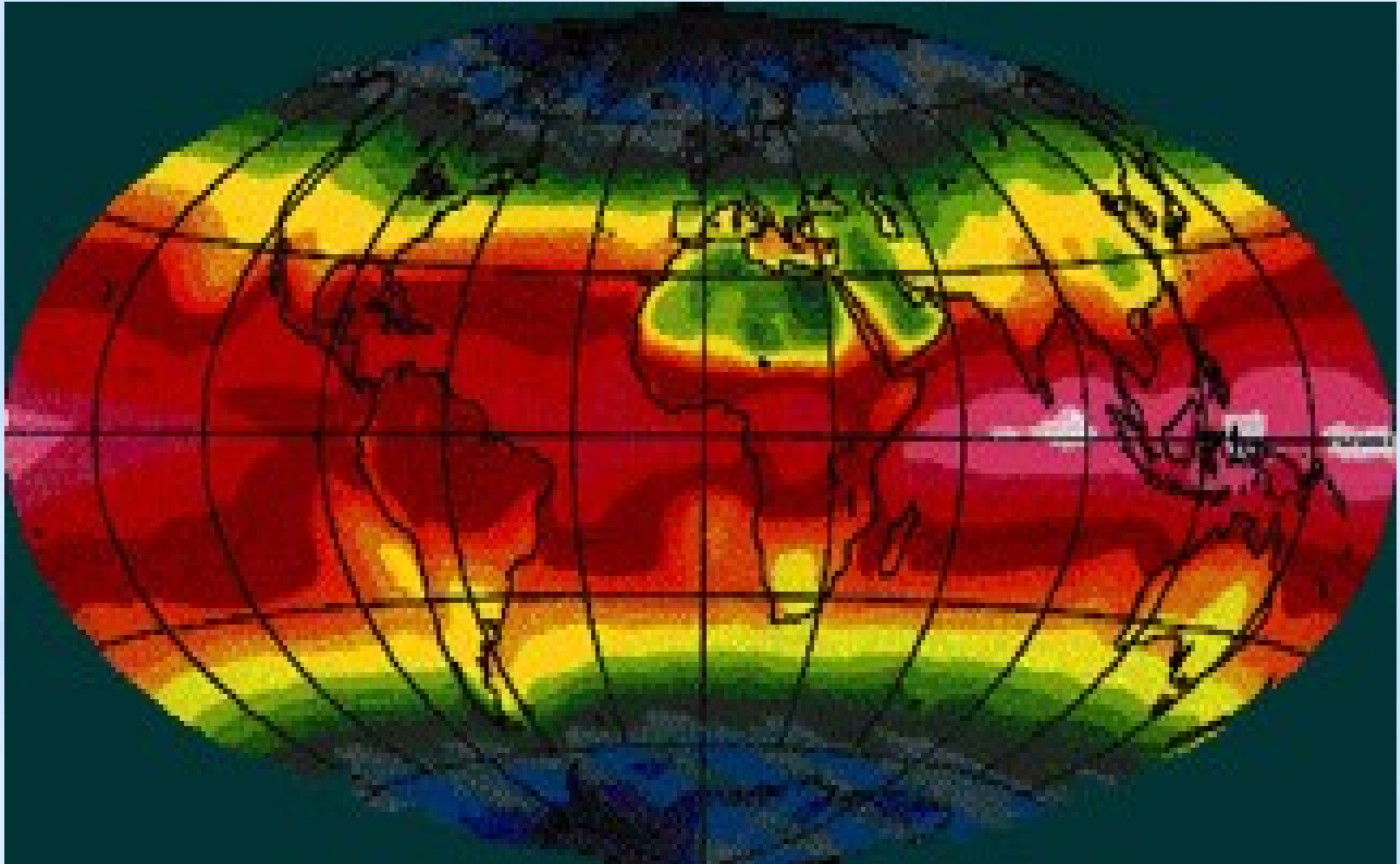


Why Long Wave Energy is nearly constant day and night throughout the year

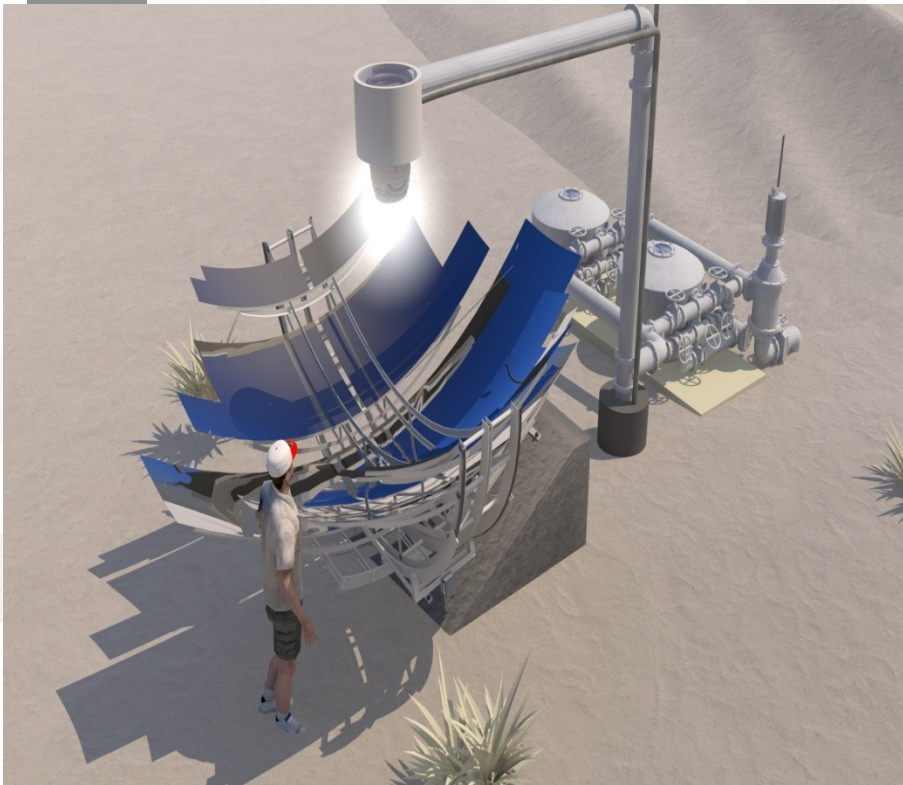
1. The clouds and moisture in the atmosphere trap the long wave radiation and re-radiated as indirect radiation. This indirect radiation hits the Earth and is reflected back into space, only to be captured by the clouds and moisture in the air. This process begins again and continues, day and night throughout the year.
2. It is important to note that the ability to capture the long wave radiation and reflect it to a concentrator is the innovation that removes solar power from an intermittent energy source and allows it to have the same reliability as a fossil fuel plant.
3. The energy collected and converted to heat from the sun using the 3 M film with secondary mirrors is over 2 times greater than the energy captured and converted power by conventional PVC film. According to PV Watts, solar radiation measurements are typically 5 kWh/M²/Day based on visible light while long wave radiation captured produces over 400 Watts/M²/hr. or 9.6 kWh/M²/Day.
4. Long wave constant decrease dramatically. Once you go north or south of Cancer and Capricorn (23.5°), we lose 40 watts per M². The loses until almost 40° latitude decreases another 10 to 15 watts per M². There is another drop down to 350 to 300 watts per M² beyond 40° to 44° latitude.



Long Wave Energy Concentration



Advanced Solar Thermal - The RED SUN Rooftop Dish



- ☐ The proprietary system captures up to 98% of the total solar spectrum as opposed to just visible light spectrum, which is 38%
- ☐ Other solar technologies capture only a fraction of the visible light spectrum and use no infrared
- ☐ The pictured RED SUN infrared solar dish that has 500 M2 of 3M film and polished aluminum collects 200 kWh/day of power. In Mexico
- ☐ The dish is a compound curved deposit ABS plastic foam and coated with reflective 3M film.
- ☐ Under the 3M film there is a polished aluminium cladding that reflects long wave radiation. With 12 m giving 4 MJ/Day
- ☐ The expected medium capex per kw-installed thermal will be around \$200 per kW-installed. For solar collector dishes
- ☐ The Dish can run generators directly or charge thermal Batteries can scale down to 200 kW to 3.2 MW to run trams and buses and trucks.



Train & Station Retrofits for electric charging, heating, AC, and refrigeration and ice for passengers and servicing

Advanced Thermal Storage - Transfer of Thermal Energy



*Thermal energy
transported without gas or liquid*



- ☐ The Graphite foam tube has thermal conductivity of 4x that of molten silver
- ☐ The tube is capable of transporting 2.5 megawatts of thermal energy per hour
- ☐ An innovative thermal storage system that integrates high density phase change material, ceramics as well as graphite in a solid-state storage system.
- ☐ Energy can be stored thermally for days and up to weeks.
- ☐ Proposed thermal storage system is at least $\frac{1}{4}$ the cost of liquid salt systems used for thermal solar and does not have any environmental issues. The amount of energy stored in 18M3 of thermal storage designed by Energime Green Group (30 MW) is equivalent to several hundred cubic meters of liquid salt
- ☐ The proposed system has a very high energy density compared to the liquid storage systems used by conventional solar thermal plants. We can store heat up to 1720°C. At 800°C, salt turns to gas and cannot resolidify.
- ☐ Higher the temperature stored means more energy for a given space.



RED SUN Mobile Advanced Thermal Storage Unit



RED SUN 30 MW Cylinder = 18 m³
300 kW for yachts & Ships 0.5m³
350kg - 658 kWh – 4 MW -9,000kWh



Thyssenkrupp Torpedo railcar 1941

- ☐ The storage unit is a solid state thermal battery that can store large amounts of thermal energy in a relatively small footprint. A 30 MW Unit is in the picture to the left.
- ☐ The unit weighs 29 tons, is 18 M³ and can store up to 30 MW of thermal energy for in excess of **30** days. If you reduce the size by 50%, you will reduce by 50% the energy that can be stored.
- ☐ The unit will hold energy up to 1600°C and deliver that energy in a measured and consistent manner. The thermal loss of the storage unit is 1°C per day.
- ☐ For a 30MW thermal energy storage device, the manufacturing costs will be around \$650,000.
- ☐ A rail car mounted 90 MT of phase changing alloys can store 26,000 MMBTUs of thermal energy which is equivalent to over 1,000 ST of steam coal. $26/90 \times 26 \text{ MMBTU} = 7.5 \text{ MM BTUs}$

Mobile Energy Storage Rail Cars



Torpedo Rail Car Used to Transport Molten Iron at 2000°C

RED SUN Batteries charge from the waste heat of blast furnaces while recycling the waste heat, to recover 35%, plus provide all the onside electricity, AC and HVAC for refineries at 1800°C+

Thermal energy storage system capable of transporting 90 MT of alloys will carry 26,000 MMBTUs of thermal energy which can be stored for over 1 month.

- ❖ The thermal energy transported is equivalent to over 1,000 ST of steam coal (10 coal cars).
- ❖ No pollution is created in the charging and use of thermal energy.
- ❖ Can recharge using 7600 MWH over 6-days.
- ❖ At \$.04/kWh cost for power at a wind farm, the cost to recharge the thermal energy storage system will be \$311,000 (\$11.95/MMBTUs). This cost is not sensitive to rail freight costs.
- Energy can compete in price against any diesel-fired boiler/furnace and in some cases, against natural gas-fired boilers.
- ❖ System could deliver a high temperature heat (1400°C) to a power plant boiler such as a coal-fired boiler if one can use low cost electrical power from a wind power plant where land is cheap and deliver the renewable thermal energy to a fossil fueled boiler as a repowering project.
- ❖ Solar Thermal Power plants can be built to displace the need to buy electricity in order to improve even more the operating margins. If one owned thermal solar power plants to create the heat for the system, operating margins will be over 50%.



Project Economic Sensitivities

RED SUN LINES built without wires and solar thermal power to be integrated
The cost of the RED SUN thermal energy storage device is low that is primarily a ceramic, copper and nickel device (\$3.3 per kW of capacity).

The combined cycle configuration is the most efficient design for the plant.
The capex is basically what a genset configuration costs plus a low pressure steam power plant. The overall efficiency of converting electricity from the grid to thermal energy and back to electrical power by a combined cycle system is 53%.

- ❖ The project's returns are dependent on transporting goods primarily
- ❖ The project will be servicing and be support for materials and labor for the TAPI pipeline project, also to be built by Energime Green Group technology
- ❖ Each thermal energy unit needs 6 hours to recharge completely overnight, which will require switching battery cars overnight while in the station..



Efficiency Savings/Benefits For Apartment Towers & Assisted Living

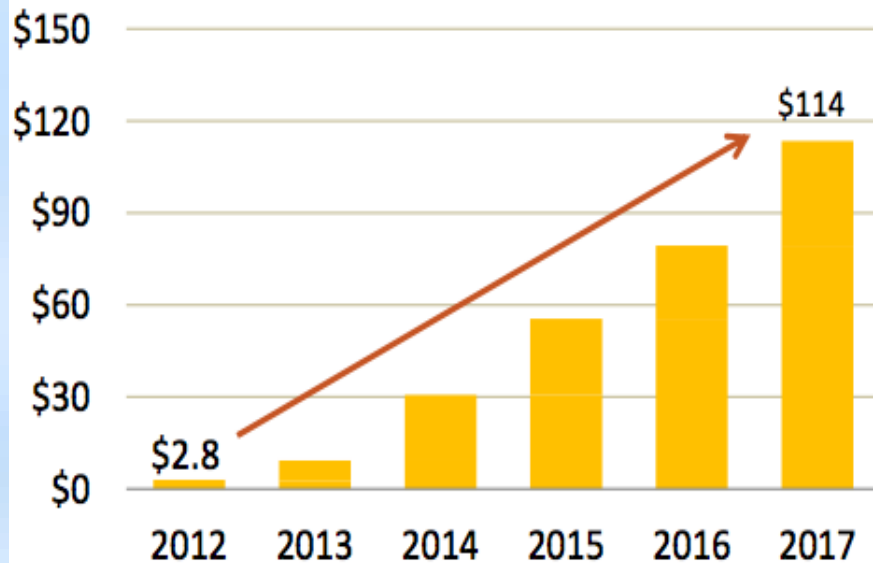
- **30 MW RED SUN MOBILE will provide 5,000 homes! 5kW each!**
- **Energy savings for mid-sized 120- to Large Tower Commercial & Residential Luxury apartments -with Savings \$0.5 -ro \$6 mln/year**
- **Desalination, AC & Laundry Heat & Sanitary Hot Water included in metered turnkey systems**



Project Growth Potential

Energy Storage Market Potential

Grid-Scale Energy Storage (\$B)

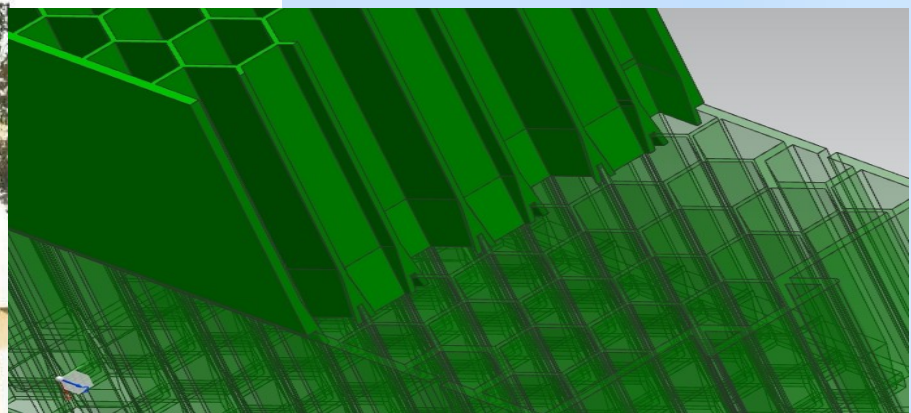


- **Lux Research** – \$114 B by 2017
- **Piper Jaffrey** – \$600 B market over 10-12 years
- **Boston Consulting Group** – \$400 B market by 2020
- **EPRI/DOE** – annual savings of \$50 billion/year via energy storage

Plenty of market potential... for the right product at the right price

Project Economics Feature Low-cost housing communities around each 80 MW charging station:

Although the railroad will transform people's lives and livelihoods, Affordable housing is the key to prosperity. Energime Green Group plans to also build housing communities with 300,000 of its proprietary €20,000 manufactured composite homes featuring new innovations in composites:



€18,500- €25,000

Power Plant Based on Proven Technologies Proven for Decades and Sourced from Major Suppliers

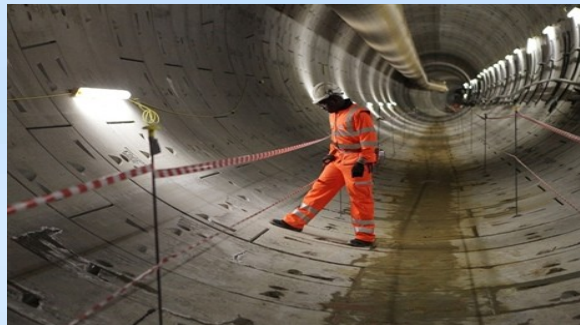
Rath Ag <https://www.rath-usa.com/> is producing the thermal core, insulation as well as the designs for the thermal dynamic model to ensure energy storage.

❖ EC Harris www.arcadis.com/ is supplying engineering on thermal energy storage device.

❖ Posco Plantec www.poscoplantec.co.kr/ produces the pressure vessels, boilers and heat exchangers.

❖ Multiple suppliers will supply the balance of plant.

For the mobile energy storage system, Thyssenkrupp would build the containment box, Bombardier or Budd Car would build the rolling stock, RATH AG, Thermal Dynamix or the Schaefer Group, and inductotherm would make the induction system with Thyssenkrupp giving (www.inductotherm.com).



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RED SUN will subsidize passenger traffic with freight and mining transportation and delivery as mining traditionally built the railroad industry in North America.



RED SUN Transportation & Station Retrofit Conclusions

RED SUN Arbitrage delivers power at 3cents per kWh, and utilizes energy that is otherwise wasted- drawing power at night from hydroelectric and delivering in the day for peak baseload power!

RED SUN 32 MW thermal Batteries charge up in 3- 4 hours and can be delivered by rail, truck, tram and ship from off-site wind/solar/etc

Energime Green Group's RED SUN runs diesel without fuel, and can tranform the rail into large-scale electrical distribution for wind and solar farms using a relatively low-cost thermal storage power plants focusing infrared + visible to get triple heat at 1900°C to run stationary power plants and mobile cylinders for weeks while providing for heat and power to local communities and bases & charges fully in 2 hours! Runs from 3 days to 2 weeks, & charges from wind, solar, waste heat, & hydroelectric

- ❖ All Train stations will become power plants by RED SUN **SOLAR THERMAL**, allowing **RED SUN Lines** to run without line, electricity, grid, or normal infrastructure required for train lines, transforming the country.
- ❖ The thermal storage system coupled with a low pressure steam loop with a 4 stage turbo generator is the lowest capex configuration for projects. Also, there are no on-site operators required at the plant when a low pressure steam and heating compressed air to run diesel engines perfected in 1840's
- ❖ Most reliable engine and steam systems available running for 40 + years!
- ❖ Top Energy Technology companies, constructors and manufacturing team!

Selected Manufacturing Partners



TITAN TRACKER



Working with Best in Class Manufacturing Partners

Engineering Team

Administration

Jay Dubinsky – CEO & Mgmt Eng.

Www.fractalfield.com Www.theimploder.com

Paul Harris – Electrical Engineer

Www.theraphi.net

Mert Pekrul – Chief Mech Engineer &

Engine/turbine Manufacturing chief

Www.fibonaccimotors.com

Dr Jack Wong – Prof. Civil Engineer

Mark Rohrbough – Electronics Eng.

Dr Andrejs Zagars – Prof. of Chemistry

Elizabeth Donovan – Chemical Engineer

Dan Winter – Chief Electrical Engineer

Www.fibonaccimotors.com www.theraphi.net www.originclear.com

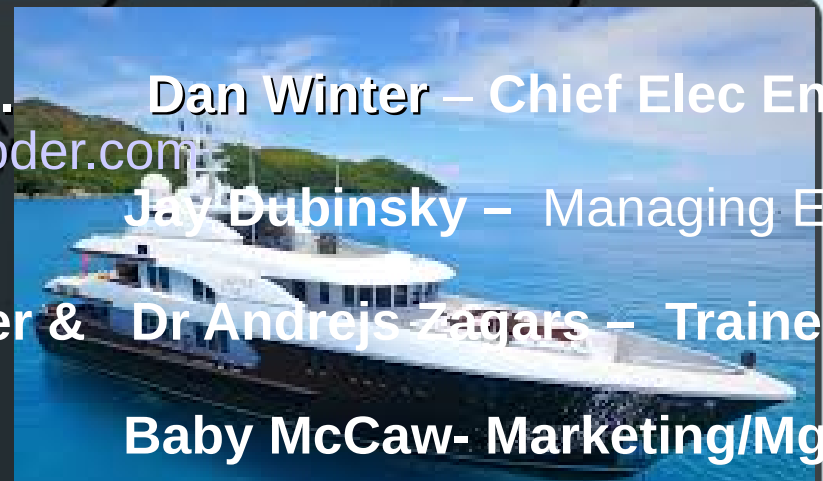
Dan Winter – Chief Elec Eng.

Jay Dubinsky – Managing Eng.

Dr Andrejs Zagars – Trainee

Baby McCaw- Marketing/Mgmt

Sevelay Kara - Marketing



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