-RED SUN Hydrogen Revolution -EGG Algae to H2 5c/kWh Charging

98% eff. Induction Charging

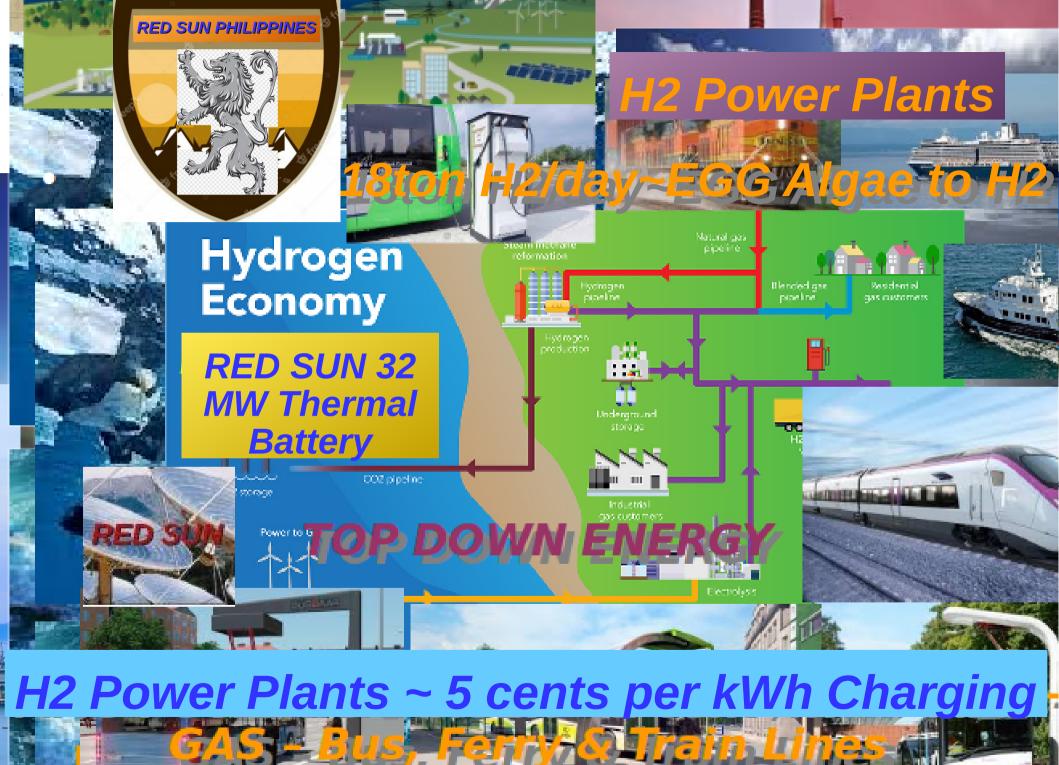
**RED SUN** Philippines

RED SUN Hybrid Thermoelectric Trains Ships & Yachts



Algae Collection in Mindanao & Visayas

Www.originclear.com/ Www.max-mesh.com/ www.Fibonaccimotors.com/







RED TIDE ALERT. A map showing the 13 bays in Eastern Visayas affected by the red tide as of Tuesday (Oct. 6, 2020). The government prohibits the gathering, trading, and consumption of shellfish in these areas. (Bureau of Fisheries and Aquatic Resources image)

TACLOBAN CITY – Red tide infestation continues in 13 bays in Eastern Visayas this week as the Bureau of Fisheries and Aquatic Resources (BFAR) raised a stern warning against the consumption of shellfish meat.

In an advisory issued Tuesday, the BFAR regional office here confirmed that more bays in the Eastern Visayas region have been affected by red tide.....





MANILA – The Bureau of Fisheries and Aquatic Resources (BFAR) has banned the selling and eating of shellfish bought or harvested from some parts of the coastal waters in Visayas and Mindanao.

RED SUN Network
Trains & Ships





**EGG Algae -To Hydrogen Systems 18 tons** H2/day ~ Sargassum/Red Tide or Lab Algae





12 Solutions

In steam gasification of algal biomass, the use of catalysts enhanced both tar degradation and hydrogen production via water-shift reaction. In catalytic gasification, tar removal efficiency varied from 80 to 100%. + catalytic activity of catalysts was in the

order Fe2O3-CeO2 > RM > ARM in terms of H2 production. The H2 yield of seaweeds~0.8L to 1.36 L per gm bone dry

**BIOMASS** 

This is higher than that of microalgae. Different amounts of inorganics between seaweeds and microalgae resulted in the different gas yields. The results obtained in this study could indicate that steam gasification of algae for hydrogen production is promising.



EGG Algae -To Hydrogen Systems 18 tons H2/day works with Brown & Red Algae - Sargassum, Native blue green or Lab-grown Algae Fuel



Above -For most business owners and Kep residents, the strange color of the sea was not the main problem. The algae bloom sucked the oxygen out of water, causing hundreds of fish to die and wash ashore in Kep. "What affected us most was the smell," said Mr. Weenink. "It was a mixture of dead fish and rotten seaweed."





### EGG Algae -To Hydrogen Systems 18 tons H2/day works with Brown & Red Algae - Sargassum, Native blue green or Lab grown Algae Fuel

We have just seen a total collapse of the close inshore areas (200m-300m from the shoreline) in Kep Province, An Algae bloom created a green tide killing all the marine life within its reaches and turning the whole of Kep's mainland coastline into a foul smelling mess of green death for a period of around 3 days.

So we would like to put it out there for Local and National Authorities our honest opinion based on good scientific evidence, and utilising previous studies and accepted theories of why this happens and why this happened now here in Kep, considering natural climate related factors such as temperature are not abnormal for this time of year. The Species of Zoo Plankton involved is Noctiluca\_scintillans and a good source of information on other Algae blooms can be found here harmful algae.

. With the number of harmful algal blooms around the world increasing in frequency and size over the last 40 years, especially in regions with large increases in coastal populations and over fishing, we feel that the human factors/stressors should be carefully studied and addressed Over the past three years we have research Kep's reefs and Seagrass beds, and as recorded in our reports we have seen serious declines in health of almost all of Kep's marine habitats due to numerous human factors. Our most recent Zoning report covers many aspects related to this and can be found here

So here is a summery of those human factors/causes, impacts and stressors that we strongly believe have led to this current event and need to be addressed urgently.

This natural blooming event happens more than once per year in Kep and usually has no negative effects, it is actually a good natural food source and natural part of the food chain that is usually beneficial to the Eco system, but as the Eco system here is close to collapse due to overfishing, excessive illegal bottom trawling and electrified fishing gear this one had a very negative impact and turned into the classic green sludge bloom that is a danger to both people and marine life

These trawling boats also kills huge swathes of Zoo Plankton along with every thing else in their path, this can not continue as this is one of the main factors in the recent collapse..

### EGG Algae~H2 System

disturbed by many factors that I shall list below.

1. lack of predators juvenile fish and other marine life which usually consume these blooms which have happened. A very good article on trophic cascading and the link between over fishing, destructive fishing and Algae Blooms can be found here Trophic Cascading and Algae Blooms and you can also read this scientific study on overfishing and its link to Algae Blooms here Over Fishing Linked To Algae Blooms.

Seagrass Destroyed by TrawlersDead Seagrass After Trawling

2. Excessive nutrients in the water due to large amounts of decomposing Seagrass caused by illegal trawling in the Seagrass areas.

Decaying seagrass fuels increasing algal blooms. This can cause a complete regime shift from seagrass to algal dominance. Accumulating evidence also suggests that overfishing of top predators (large predatory fish) could indirectly increase algal growth by reducing grazing control performed by mesograzers, such as crustaceans and gastropods, through a trophic cascade.

1) Hydro-jector vacuumes algae onto barge

**Illegal Trawlers** 

3. Bottom trawling - dragging nets across the sea floor to scoop up fish - stirs up the sediment lying on the seabed, displaces or harms some marine species, causes pollutants to mix into plankton and move into the food chain and creates harmful algae blooms or oxygen-deficient dead zones. References here Trawling is Destroying Our Oceans

4. When alive this plankton creates a normal amount of ammonia whilst feeding on phytoplankton, as this natural and non harmful bloom reached Kep it encountered many trawling boats running electric currents through the water column, this electricity killed it in large numbers, resulting in the pasty green sludge washing up in turn the mass deaths caused a spike in ammonia resulting in the marine life deaths 5. Water temperature, but this is a normal occurrence that within a healthy ecosystem would not result in the current situation.

We believe the largest contributing factor is excessive nutrient from decomposing Seagrass of which there has been days recently when it's a meter deep washing up on surrounding beaches, and the large number of electric trawlers working in the areas between the islands and the mainland.

## Filtering the Water- Proprietary

EGG Puri-Stat - turns algae into bricks easily!

2. PURI-STAT to thicken into bricks for drying

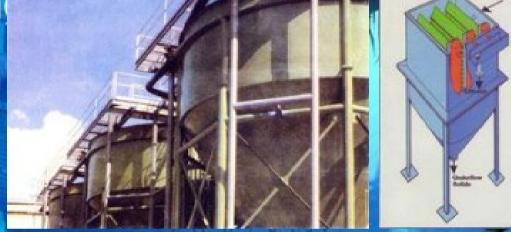
Filtering-Thickenin Clarification-Addendum Additions-

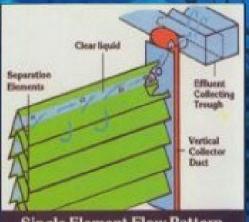
3.5 MM gallons/day

**-98% energy efficienc** 

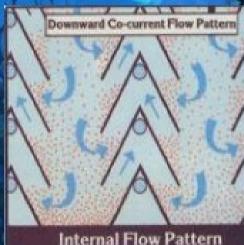
works by gravity-

Works in combination



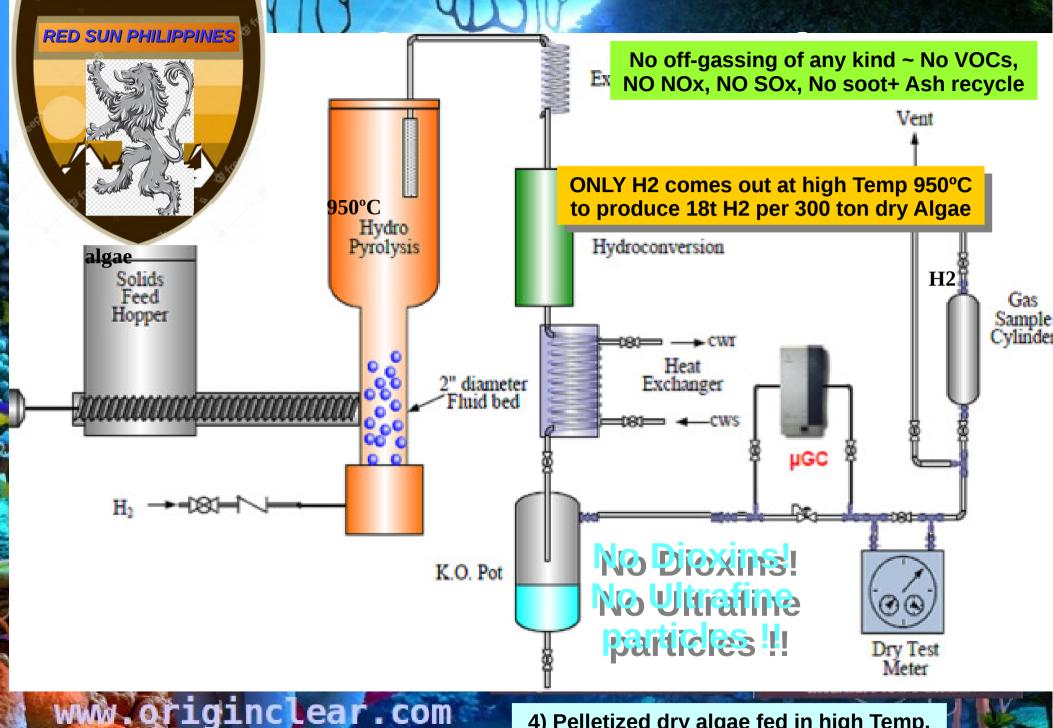






www.originclear.com

3) Algae Bricks are dried in sun and final drying in RED SUN 1000°C kilns & Ovens



4) Pelletized dry algae fed in high Temp. 950°C 2-stage Fast Pyrolysis to make H2

# H2 & MAG POWER Electric Gartenary System

No Wires or **Catenary System** Needed ~ **H2 & MAG** GAS Charging onboard +thermal batteries = 1400 km range-save \$18m/mile



H2 & MAG POWER Gas Re-charging & gensets 3.2 ~ 32 MW Thermal Battery enables Hydrogen



MAG POWER Thermal Energy Storage to power industry with Compressed Air & Steam Power Plants 9,600 BTUs/kWh at 63% Efficiency

REDSUN thydreasun Chevalua

Systems:



2310130133 Hear in 32 MW Thermal Battery

ratur tor (1700-1800

leat Exchanger (convective

induction)



Water Pump

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

Wireless System!

Super Heated Air Compressor at 1100 oC



Air Accumulators

Compressed Air

Mechanical Link

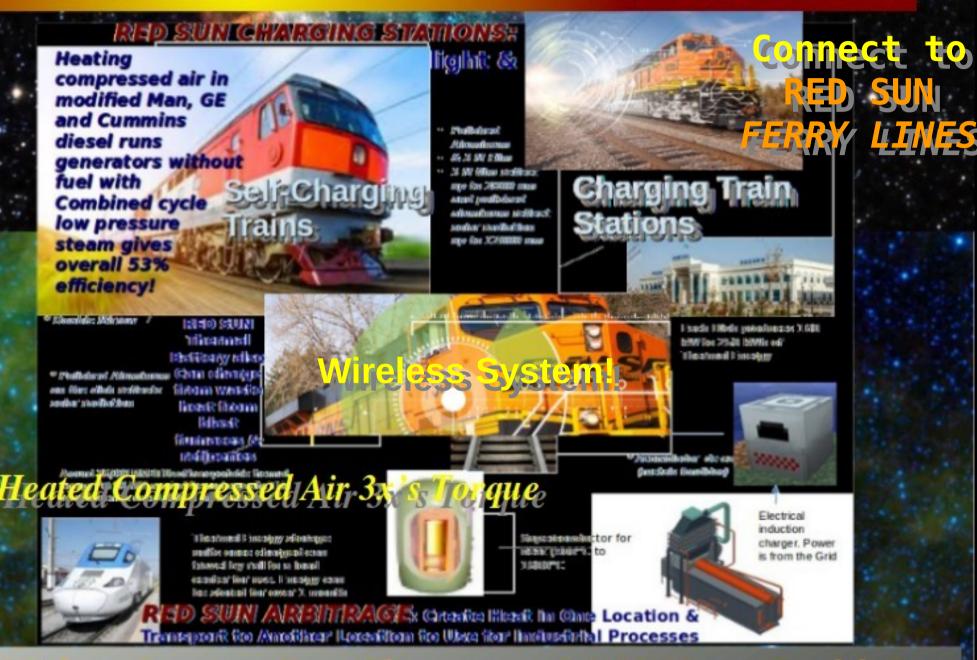


O oC

Condensor Pump

Stage 1

### RED SUN & MAG GAS H2 Platform



1400 km Range Per Charge - 64 MW on Budd Car

### Engineering Team

Administration

Jay Dubinsky -Pres/Mgr Eng **Dan Winter – Chief Electrical Eng.** Www.fractalfield.com Www.theimploder.c Dan Winter - Chief Elec Eng **Paul Harris- Electrical Engineer** Mert Pekrul - Chief Mech Engineer **Engine/turbine Manufacturing chief** Www.fibonacc Civil Engineer Chem Eng~ And Dr Jack Wong - Pro Mark Rohrbough Electronics Eng. Dr Andrejs Zagars - Prof. of Chem/ **Marketing~ Baby McCaw** Elizabeth Donavan - Chemical Engineer Jay Dubinsky – Mgr Engineer/Pres. **Lawyer~ Alex Pauron** 

### RED SUNITH HE POWER

Www.fibonaccimotors.com www.originclear.com
Www.theraphi.net www.theimploder.com www.max-mesh.com
www.eneergime.com





Energime Green Group, Thailand; Ltd Tel +34-652-274-123 USA: 310-651-8123 doctorredsun@gmail.com Skype: danwinter Address: No. 7 West Mall Drive Narvee Professional Building, West Mall Dr Freeport, Grand Bahamas, 42120

RED SUN Non-Combustion Brayton Cycle & Diesel Retrofits ¬ 20 to 1,000 MW Power Plants Ship & Stationary Power Plants & Bus, Yacht, Train Retrofit All Turbine Power Systems

