

THE ENERGY SOLUTION

The greatest engineering and economic system in human history

"Our financial services and investment banking division will exceed current world markets."

- It solves the end of oil
- It is a direct replacement for portable motor fuel without any pollution
- Instead of costing trillions it makes trillions
- It cleans, the air, water and soil
- It produces unlimited energy cheaper than coal with no carbon footprint
- It renders all the waste in the world infinitely recyclable with no pollution at virtually no cost including Rare-Earth elements
- It brings 3 billion people out of extreme poverty
- It allows us to have a robust, functioning economy while being responsible stewards of the Earth



VIABLE ZERO CARBON ENERGY AND

Alpha Barrier Material Science Technology
Lighting a path to the future

Cheaper than coal with no carbon footprint

TWS

The Energy Solution Making Perfect Sense

By TWS

The world is looking for a solution to the end of oil. I have it. Bill Gates once said that if he had a superpower it would be the ability to create a source of energy cheaper than coal with no carbon footprint. Through cumulative knowledge, applied science, and willful determination, I have created a visionary solution.

This is a practical, technically sound, economically viable solution, to break the strangle hold of fossil fuel! It is a complete system that will produce enough energy to replace oil, coal, natural gas, and virtually all carbon based fuel! This system is almost 100 times cheaper than coal, over 160 times cheaper than natural gas, and 296 times cheaper than oil and will stimulate the world's economies for decades. **THIS WILL MAKE MORE MONEY THAN THE INDUSTRIAL REVOLUTION** and it will reduce the gigatons of greenhouse gas emissions we currently produce a year to zero.

The result is clean, cheap, virtually unlimited, sustainable, renewable power with zero pollution. We don't have to replace existing buildings. We don't have to give up internal combustion engines. We don't have to give up airplanes. We don't have to give up cows. We don't have to wait decades for a solution. **This is what the world has been waiting for.**

In order to solve the fossil fuel problem you have to understand the scale of the problem. We currently consume about 100 million barrels of oil a day and when you include all forms of fossil fuel you start to approach 500 quadrillion Btu of energy. In order to replace 500 quadrillion Btu of fossil fuel energy you have to produce 500 quadrillion Btu of replacement energy.

The reason this works is because it is a complete system.

When Edison invented the light bulb, he stood in a lab with a light bulb in his hand. Not one single person in the world needed a light bulb because there was no place to screw one in. There were no lamps, no outlets, no electric cords, no electric meters, no generators sending power to people, no electric grid. Edison had to invent over 480 different things to develop the electrical **system** as we know it. After devising a commercially viable electric light bulb on October 21, 1879, Edison developed an electric "utility" to compete with the existing gas light utilities. On December 17, 1880, he founded the Edison Illuminating Company, and during the 1880s, he patented a system for electricity distribution. The company established the first investor-owned electric utility in 1882 on Pearl Street Station, New York City. On September 4, 1882, Edison switched on his Pearl Street generating station's electrical power distribution system, which provided 110 volts direct current (DC) to 59 customers in lower Manhattan.

This global solution is the result of the same kind of thought and effort and involves hundreds of technical solutions developed over more than a quarter of a century.

As a matter of fact, this is more inventions than the 80,000 inventions Mercedes-Benz has in their 75 year history. We will have to hire a team of patent attorneys just to handle the volume of inventions in this entire system.

Scientists know, unanimously, that hydrogen is the most abundant element in the universe. They also know pure hydrogen is the best fuel you can possibly use period. What they don't know is how to produce it in sufficient quantities economically. I do.

The first thing you have to do is give up your pre-conceived notions.

If we say "hydrogen", the majority of people automatically start the process of what they think they know about hydrogen.

What they may not know is that when they start their car, truck, plane or train and burn fossil fuel the only thing that is actually burning is hydrogen. Every single Btu of energy we produce today from fossil fuel come from hydrogen. It just happens to be locked in an organic molecule called hydrocarbons.

The problem with hydrocarbons is when you burn a pound of fossil fuel you produce several pounds of CO₂. That process is killing us. Unfortunately, that doesn't matter. Now that the number one oil producer in the world, Saudi Arabia, is running out of oil...it matters. As individual countries run out of oil they become geopolitically irrelevant.

Currently, hydrogen is produced from fossil fuel and in the process they release the carbon creating more emissions than you would produce burning it as fuel! So, the cost is too high and the result is of no benefit.

The second way to produce hydrogen is by electrolysis, where about 2.14 volts at one Amp is applied to water containing an electrolyte, like salt, to produce hydrogen and oxygen. The problem is the process is very inefficient and you have to burn fossil fuel to produce the electricity to accomplish electrolysis and because each step is inefficient you have to burn many energy units of fuel to produce one energy unit of hydrogen. It won't work.

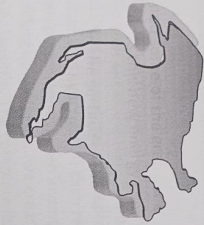
People falsely assume this system is like other things they have seen. One example is tidal current generators. In 2004, we saw where a company stuck basically an airplane propeller on a stand attached to the sea floor in tidal currents to generate electricity. They complained it's too expensive, parts and maintenance are a problem, making it uneconomical. Putting an airplane propeller on a stand in the tidal current is completely impractical.

When we say our hydrogen machines sit in the water, some people think it is the same thing. That is like comparing a kite to the space shuttle. Tying a piece of paper to a stick on a string will not make it fly 17,000 miles an hour. This technology is the Space Shuttle of hydrodynamics. It was "designed and engineered" to operate in seawater. It has one moving part. It has no wires; it produces pure hydrogen **not** electricity. It is not a generator.

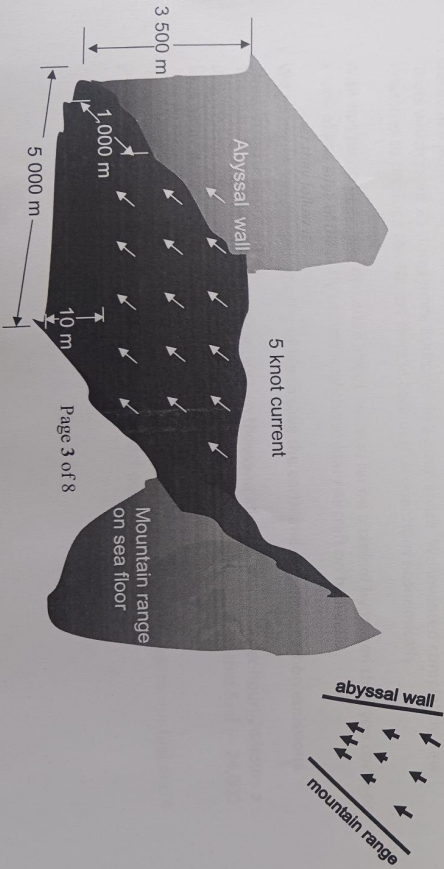
These structures presented some of the greatest engineering and economic challenges imaginable. Like, Where does this new energy come from?

Each hour the sun shines on the surface of the Earth with more energy than is consumed by all of mankind in a year. More than 70% of the earth's surface is covered with water. The sunshine — (thermal energy) — heats up the water. The warm water rises to the surface. Migrates to the poles where it cools. The colder water falls down causing convection. When these cold heavy currents encounter the topography of the ocean floor they form a system of currents called the "oceanic auger system" which circumnavigates the globe. These huge underwater rivers contain unimaginable amounts of kinetic energy — power. More than enough power to power the entire world many times over; that power from the sun is what we have figured out how to harness and convert to portable motor fuel.

The edge of each continent has a continental shelf that extends on average of about 200 miles out. The average depth at the edge is about 600 ft. Then there is a precipitous drop called the abyssal drop that goes down on average of 10 000 ft. to the edge of the ocean floor called the abyssal plane. This abyssal wall skirts the edge of the continents. It forms a solid barrier. When the convection currents encounter this barrier they follow it.



The ocean floor has mountains just like the surface and when a mountain range is appropriately positioned close to the abyssal drop they form compression zones. These compression zones cause the water to accelerate to speeds between 5 and 10 knots. (about 5 - 10 mph) 1 Knot = 1.15 mph



A canyon on the ocean floor 5,000 m wide and just 10 m deep is more than 50,000 m³/sec. That's over 5 million horsepower of kinetic energy each second. That is 3,730,000,000 or 3.7 giga Watts. That is just a one meter cross section. When you start to consider length, a 10,000 meter long section is 37 Tera watts; now you start to get a glimpse of the power I am talking about. It makes present power sources look like wound up rubber bands.

It was necessary to invent dozens of new technologies to solve these challenges, including how to make the machines.... how to recover the energy.... how to transport everything.... how to position the machines in 10,000 feet of water with pinpoint accuracy.... how to monitor it.... how to make it all operate at pressures in excess of 10,000psi.... how to make it not resistant but impervious to sea water.... how to manufacture it out of non toxic, environmentally sound, recycled materials.... how to address regulatory concerns. All of them are economically viable and scaled to the project.

We created the systems to bring the hydrogen to shore safely and economically in an environmentally responsible manner with consideration for shipping, fishing, and recreational use of the oceans.

We developed safe and practical storage capacity to scale.... we compiled the "end user solutions" so we can take your car and install the parts in about an hour — allowing your car to run on hydrogen or gas.... We devised the interceptor harness which tells the computer in your car when it is gas and when it is hydrogen. It then resets the respiration and ignition parameters for maximum performance.... we invented a filler nozzle system to make filling up with hydrogen just like filling up with gas.... we created the manufacturing systems to make all these things economically feasible. The complete list is extensive.

The previous drawback to hydrogen powered vehicles was capacity, pressure, and safety of hydrogen storage tanks. The previous storage problems have been solved. The Hydrogen is stored in a semi-solid state that is both safe and practical. Our tanks contain Graphite Nano Fibers which store 25 times more hydrogen in a given space. We invented completely new industries to produce the Nano Fibers in commercial quantities economically.

With this technology, you can drive about twice as far on a tank of hydrogen than you could on a tank of gas; and you can fly commercial and military aircraft on hydrogen.

We need not sacrifice our quality of life to save the earth and eliminate carbon emissions.

The machines we designed can produce two thousand kilos of hydrogen per hour, 24 hours a day, seven days a week, 365 days a year. That is 48,000 kilos a day. Half of that fuel — 24,000 kilos a day per machine — will be sold as portable motor fuel.

167,000 such machines will make over 4 billion kilos a day to sell as portable motor fuel and 4 billion kilos a day we keep for our own commercial purposes.

The high-tech manufacturing facilities we designed will produce 25 units per week—1300 units per year. Fifty manufacturing facilities worldwide will produce 65,000 units per year. Consequently, it will take about 2 1/2 years to produce the units once the facilities are up to capacity. These units will produce enough hydrogen to completely replace fossil fuel. At that point we will reduce Global Carbon Emissions from fossil fuel to zero. We will continue to produce more units until we reach 20 billion kilos a day. The reason being-- we are preparing for increasing energy demands of the future.

This is the next great technical revolution. Wood was the original fuel, followed by coal, progressing to oil. The next step in the evolution of fuel is hydrogen, not from methane, ethane, propane, or butane, but hydrogen from water; the power for electrolysis provided by the sun not in solar panels but from the movement of convection currents in the ocean; huge rivers of nearly unlimited power. Our system is unique. It is as different from anything anyone has seen as the Wright Brothers first plane was different from anything before it.

Every detail of the production, transportation, storage, and end user requirements has been addressed. All the creative solutions we have either invented or acquired from the cross application of existing technologies. The **Skunkworks** produced the SR-71 Blackbird, which flew in 1963. It was so far advanced it remains to this day among the fastest and hard to believe. Our hydrogen system is the SR-71 of systems. It is so far ahead of current technology and current thinking that people find it hard to believe. Good engineers solve big problems with complex solutions you could never understand. Great engineers apply such simple solutions that you can't believe you didn't think of them yourself. We did both numerous times to overcome the obstacles and develop this entire system.

In order for this to work at all we had to make it profitable. Because let's face facts... money makes the world go 'round. If you want the world to help, they have to make money.

This system will produce virtually unlimited hydrogen for .75 cents per kilo. It currently cost about 40 dollars a barrel to pump, ship, and refine a barrel of oil. That same 40 dollars will produce 5,333 kilos of hydrogen. A kilo of hydrogen is the same as a gallon of gas. Imagine making over 5,000 gallons of gas for 40 dollars with no pollution and no refinery. From a strictly economic perspective, it would be absurd not to make hydrogen. Hydrogen produced our way is many times more profitable than any fossil fuel. At target capacity we can produce over 20 billion kilos a day, several times that if needed. At \$1 per kilo just half of that 20Bkg is ten billion dollars a day in revenue. And that is only a 1% fraction of the money this entire system will produce which is plenty to inspire the cooperation of the world.

The process developed to make graphite-nano-fibers economically ended up being one of those Alpha-Barrier--Technologies (a technology that completely changes the entire world).

Let's see if we can give you the gist of it:

Let us paint you a mental picture.

Let's say you have two gas cans in your hands each can containing 1 kilo of petrol (= to 1 gallon of gas)

Your total cost to produce both kilos is 1.5 cents.

One of those kilos you sell as portable motor fuel to a consumer for \$1.00 (one USD) recovering the 1.5 cents and making 98.5 cents in profit. **The other can was paid for by sale of the first can and you can now think of the second can as "virtually no cost fuel"**.

Being able to think of our second kilo as "virtually no cost" frees your mind to think outside the toxic box. That "no-cost" energy we use for the solution to our material cost problem.

It is called the "plasma-arc waste management system". We take "trash" that would otherwise go into a landfill or be dumped into the Ocean, heat it up to the 4th state of matter, called plasma, at extremely high temperatures to achieve "molecular dissimilation" separating it into its individual atoms.

We then use existing and proprietary technology and physics to capture those atoms in commercially viable quantities. Picture the entire periodic table of elements up to 92 being stored in large commercial vats.

We can then combine them with conventional chemistry to produce any material we need at virtually no cost. In fact we make money off of it without creating unwanted pollution or by-products. Here's how. And this is why it took over 25 years to engineer this solution.

In the United States a typical family has their trash removed by a waste management company. These companies pay an average of \$60 a ton to dump that waste at a landfill. The average American produces 4.5 lbs. of trash a day that translates to 650 000 tons a day.

Now, if we were able to tell all of those waste management companies that they could bring their trash to us for only \$30 a ton, how many of them would bring their trash to us? Answer: virtually all of them. That is \$19 000 000 a day. Keep in mind on a global scale these numbers are easily reached.

That means if we build the right infrastructure, we can generate \$19 000 000 a day to pay the wages and fixed cost of operating the Plasma Arc Waste Management System. So, the total cost of obtaining the trash is less than zero, therefore our cost of converting the trash to atoms and subsequently into materials is essentially zero. Hence, what we end up with is virtually no-cost energy for our industrial purposes and virtually no-cost materials. You cannot imagine the industrial competitive advantage this represents.

In 2014, a Z06 Corvette luxury model sold for about \$125,000 and is made from approximately 14,000 parts all manufactured throughout the world. It cost about \$85,000 to purchase and logistically move those components to assemble the car. With our technology, we could produce an exact duplicate of that same car down to the atom for about \$66. Can you imagine the industrial competitive advantage GM, or Ford, or Boeing would have if they had this technology? Is our car company going to beat their car company? How about our plane company, our train company, our computer company? The same thing applies to everything in the world across the entire spectrum of human endeavor and all industries. That represents more IPOs than the entire industrial revolution. **Our financial services and investment banking division will exceed current world markets.**

This technology was developed to solve a technical problem in the manufacture of advanced materials. To produce graphite-nano-tubes and carbon-carbon and carbon fiber components using conventional means it can cost up to \$1,500 a gram. Some of the more complex systems require tons of exotic materials including rare-earth elements. To obtain these exotic materials through conventional means made the entire system prohibitively expensive. The Plasma Arc Waste Management technology solved the economic problem for our proprietary systems and it was just one of those things that happened to apply to all things in all industries.

Of the approximately 8 billion people in the world about 3.5 billion live on less than two dollars a day. If we were to develop the undeveloped parts of the world using fossil fuel we would hasten our demise. With unlimited zero carbon energy and infinitely recyclable virtually-no-cost materials, we can develop the undeveloped parts of the world and bring their standard of living up to the standard we know today in the developed world and do it in a sustainable and environmentally responsible way. Those billions of people will be the consumers of the goods and services we produce essentially doubling Global GDP adding nearly 100 trillion dollars a year to the world economy and trillions for our team and partners.

That makes this system the greatest engineering and economic system in human history. Our goal is to form partnerships with all countries and all industries to bring this technology to mankind. If we let individual governments dictate the use of this technology it will never reach the world and produce the most important benefit which is saving all our lives. With your help we can implement the most important thing in human history fairly. We can put mankind first.

The economic stimulus from this technical revolution will be like nothing ever seen before. The business opportunities involved in moving from fossil fuel to hydrogen will stimulate the world's economies for decades. Those witnessing the economic boom will be thunderstruck by the scale and duration. The nice thing is that everyone will benefit. Everyone on earth and the Earth itself will benefit from this in ways no one could imagine. Clean, abundant, affordable power without leaving a mark, instantly profitable, infinitely sustainable and this can be done right now. Not since the invention of electricity have we had such a grand theme that means everything to everyone. However, We can't do the next part alone.

We need to tell the world so we can put together a team to make this happen. Those who join first will receive the greatest benefit.

We are the first species that will document and record our own extinction if we don't solve this problem. Every day we let this problem continue, we are committing geopolitical suicide.

God willing, we WILL come together and implement this plan. We WILL be the greatest generation that faced the greatest challenge in human history and implemented the solution that improved the life of every living thing on this planet and left a sustainable legacy of prosperity for future generations allowing them to be responsible stewards of the earth.

"Sometimes it's the people you imagine nothing of who do things you can't imagine."

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