

Short Communication

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Worldwide Development Corporation Brave New World

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This article's intention is to explore the possibilities of cheap almost unlimited energy without consuming resources could have on the world and its inhabitants.

We have the opportunity to change the priorities of the human race for the betterment of mankind. Don't let fear of the future or greed stand in our way. Because of the almost unbelievable capabilities of this new energy invention we can transform from a society that concentrates on generating energy to how do we use energy to improve the lives of billions of people all across this planet. Even with this new energy invention capability the path to create a world that is sustainable will not be easy but if we all join together we can truly live up to the spirit of humanity at its best.

The COVID-19 virus that is causing havoc all over the world gives us an opportunity to review the world through lenses we have never been able to do before. Every person on the planet needs to **rethink our priorities** and hopefully change directions to create a better world for future generations. We all have a choice! Do we go back to the way things were before or do we have the courage to change things. That is the question we should be asking ourselves.

Mankind's current path is destroying its own future:

List of problems:

- Oil consumption 33 billion barrels per year from limited resources (B.P. predicts 50 yrs)
- Worldwide population 7.6 billion and projected 10 billion by 2050
- Water shortages propping up everywhere around the planet
- Over consumption of groundwater in many countries lowering aquifers
- Glaciers melting which will eliminate rivers overtime in many

- areas around the world
- Over fishing (40% of world consumption of protein comes from oceans)
- Ocean corals bleaching due to the acidity of the oceans from carbon absorption
- Ocean's rising from Greenland and the Arctic's melting (Due to climate change)
- Wind and Solar technology insufficient and unreliable (based on weather)
- Methane gas leaking from Arctic's melting (98 times worse on the ozone than carbon dioxide)
- Deforestation (eliminating the carbon filter to the world)
- Large bodies of water drying up all over the world (ex. Aral Sea largest freshwater body of water)
- 98% of transportation fuels are oil based a limited resource (transition hasn't even begun)
- Projected mass human migration due to lack of resources
- Atlantic ocean current disruption which has huge consequences on weather
- Over consumption of resources is growing every year (require 2 earths by 2050)
- Animal mass distinction (60% loss in animal population since 1970)
- Energy demand is rising at an alarming rate due to 3rd world countries thirst for energy

None of the above issues are being addressed in any meaningful way. Humanity is **incapable** of solving these global issues with the current technology that exist today. The new energy invention I have created can either solve or help solve most of the global issues stated above. It can be the basis for a brave new world if humanity is willing to step up to the challenges.

Common sense tells you 7.6 billion people and growing consuming LIMITED RESOURCES at an unprecedented rate will not end well for the human race. Remember the world had a population of 1.5 billion people just 70 years ago (1950). You don't need to be a genius to understand the human race is on a path to self destruction fighting over the remaining resources. Just try to imagine a world with 10 billion people and a lack of energy and no plastics? **You can't because that world couldn't exist.**

Worldwide Development Corporation Background

The Worldwide Development Corporation (WDC) was recently formed after 12 years of painstaking relentless effort,

disappointments, self funding, failures, successes, etc. developing an energy invention that can change the world. WDC has put together a World Class project to introduce and implement a new energy invention that has the capability to power the planet 15,000 times over without consuming resources for a fraction of the cost (*pennies on the dollar*) of any energy generation technology that exist today theoretically forever. It is the crown jewel of energy generation and the missing piece to the sustainability of the human race. The project includes all the Engineering, 3D drawings and Prototype that is very professionally done. The quality and thoroughness of engineering completed on this project is second to none. The validation process for the power projections for the new energy invention will be an elementary exercise for any engineer. All math calculations are easily understood and have sound engineering disciplines behind them.

I've written and spoke about the new energy invention capabilities in many videos and post on different social platforms.

List of some of the important media links

Website: www.wdcpower.com

United Nations Challenge - <https://johnrosebush.blogspot.com/2018/03/worldwide-development-corporation.html>

Specific cost comparisons - https://www.youtube.com/watch?v=wa2WZcmpzYw&feature=emb_logo

Detailed Capabilities - https://www.youtube.com/watch?time_continue=1&v=1PMG4ZcNR7s&feature=emb_logo

PowerPoint presentation - https://www.youtube.com/watch?time_continue=241&v=BUbyuKjtHss&feature=emb_logo

Resource Management is the only way we can create a sustainable planet for humanity. Two things that are absolutely necessary to have true sustainability are an unlimited energy supply without consuming resources and a 360 worldwide recyclable program that recycles all resources for reuse. The keyword is “ALL” resources for reuse. Both are absolutely critical in order to preserve and sustain the limited natural resources necessary to support a modern society made up of billions of people long term. The definition of sustainability is the ability to continue to do an action theoretically forever. Either something is sustainable or it's not because there's no in between. We must as a human race create a circular society otherwise everything else is a moot point.

Before we begin exploring the effects of almost unlimited cheap energy it's important to point out this new energy invention is going to make all other forms of energy generation technology including fossil fuels obsolete immediately due to the cost and capabilities of the new energy invention.

Humanities only path to Sustainability

The new energy invention has the capability to be installed in almost any location on the planet. It is capable of operating without an outside power source unless there is an emergency shutdown of both power units contained within each unit In which case it requires a temporary portable energy source for startup purposes.

One of the **greatest advantages** of the new energy invention is it allows engineers to completely layout the **entire planet** on mini electrical grids that can supply enough energy to not only replace all the electrical needs (PEAK DEMAND) but also any other energy needs such as powering all our transportation requirements, etc.. Each new energy installation has two power units and if we overlap the installations we not only have backup within the units but also between the different units which will create an almost

full proof **100%** backup for the entire planet. Without 100% backup capabilities it would be impossible to power the planet with one energy source.

Another great advantage of the new energy invention is its capability to almost operate itself without any human intervention. The new energy invention can match up supply with demand on the electrical grids to avoid any overloading, load shedding or any other issues when it comes to load balancing the electrical grids.

Another advantage of having small electrical grids it will prevent large scale blackouts and eliminate cyber attacks on our electrical systems around the world. When additional power is required in an area it will be easy to add another small electrical grid or expand one of the existing electrical grids by simply adding an additional new energy invention installation.

Much thought about maintenance of the new energy invention was anticipated during the design phase. The new energy invention was designed to eliminate as many situations that would cause a shutdown as possible. We actually were able to design the new energy invention to be able to self correct any problem with the exception of one. The self correcting mechanism can temporary fix almost any problem automatically and then the problem will be permanently corrected during normal maintenance hours. Because we were able to build the maintenance proactively into the design we think this will eliminate 99% of all emergency shutdowns which will result in an extremely reliable power source throughout the planet.

Finally because all energy will now be supplied by the same technology around the world we can take advantage of mass producing the major components such as generators, bearings, etc. to build the new energy invention units. We will also have the ability to build maintenance centers geographically around the world that could rebuild and supply the major components to the new energy invention units. This would allow us to have one day turnaround with any parts that are required for daily maintenance of the new energy invention units.

There will be places around the world that require such a small amount of energy that it doesn't make sense to build a new energy invention or build long distance grids to the locations. We could easily move the obsolete solar panels or wind turbines to those areas along with batteries to supply power. The batteries that are being sold to home owners today could also be repurchased and supplied to police stations, city office buildings, hospitals, and finally city infrastructure such as street lights etc for backup purposes. This would create a very safe environment around the world for very little cost since we already have built the obsolete equipment.

Energy efficiency will still be important yet cheap energy will place a much smaller amount of emphasis on it around the world. This should eliminate the need to retrofit old buildings just for the sake of energy efficiency. New construction will still concentrate on efficiencies where it makes sense. Things like the push for led lights around the world will continue and many newer product efficiency designs we expect will also continue.

360 Worldwide Recycling

Besides cheap unlimited energy without consuming resources we must recycle all oil products in order to preserve the virgin oil for future generations if we're going to have true sustainability

where people can survive and thrive theoretically forever. Oil is the second most important resource after water due to its ability to make products like plastics that even make a modern society possible and without a modern society it would be impossible to maintain billions of people.

This means we will need to build recycle centers in cities throughout the planet. Besides changing our entire energy infrastructure this will also be one of the largest undertakings humanity has ever contemplated. Unless we make recycling one of the highest priorities we will just consume the remaining oil and leave humanity without the capability to survive long term.

This undertaking makes it necessary for **all** plastics to be able to be recycled which will change many of the types of plastics we use in products and packaging today. Another factor is how we distribute the cost of recycling fairly throughout the planet. The recycling cost will probably be included in the products manufacturing cost in the products. This may change the combining of plastics with other materials such as paper or metals in a product design to decrease the cost of recycling due to separation of materials.

If the world is intelligent about recycling we should be able to reduce the raw materials going to the dump to a very minimal amount.

Water Shortages

Water is the lifeblood to any society. It is predicted by most scientist around the world that 50% of the earth's population will face some sort of water shortages over the next 20 years. We are already seeing millions of people dying every year due to either no access at all to water or only decontaminated water. This situation is getting worse every year almost everywhere throughout the world. Today in India many farmers all over the country are even committing suicide over water shortages. African children are dying by the millions every year due to lack of clean water. China has built the largest water diversion project (1000 mile) the world has ever seen to deliver drinking water to the people living in the north of China. England is predicted to have major water shortages within 10 years. Parts of U.S. are having water scares in the western part of the country. There are very few places on earth that will escape the upcoming water crisis in one form or another.

There are different technologies that are available to obtain fresh water. The major two technologies are atmospheric water generator and ocean water desalination.

Atmospheric water generator technology is essentially extracting water vapor from the air using condensation techniques. The issue with this technology is the small volume of water produced from the amount of energy required to operate the units. It's also dependent on humidity in the air, etc. which can be extremely variable and dependent on the weather.

Desalination is not widely used around the world for multiple reasons. The first and foremost reason is its very **energy expensive** to remove the brine from the water. Some estimates are brine is almost 50% of the ocean water. The next thing is where do you dispose of the brine once you have separated it from the water? If you dispose of the brine along the shoreline you destroy the habitat due to the increased concentration of saltwater. Finally you then have to deliver the desalinated fresh water through pipelines to the end customer which again is energy expensive.

The new energy invention is not only capable of solving our future energy needs but we believe is the only way to solve our fresh water needs going forward. No matter which technologies we use to produce fresh water it will be energy expensive without the new technology from the Worldwide Development Corporation.

Forty percent of the world population lives close to the oceans. Yet 98% of the water in the world is salt water that is undrinkable.

Because desalination doesn't depend on humidity in the air and has the capability to produce much larger amounts of fresh water it should be the main solution to our fresh water needs. That doesn't mean there isn't a place for atmospheric water generator technology.

If we embrace desalination its critical we dispose of the brine in a responsible way. One solution is to haul the brine far out to sea where it has time to mix with ocean water and not build up the concentration of salt water close to shorelines. A possible solution for getting rid of the brine is we could convert the ocean oil tankers to be brine haulers since the demand for oil should shrink tremendously due to the new energy invention capabilities to replace oil for transportation and recycling centers that reduce the demand for petrochemicals to make products.

Transportation

The most important thing we can do to save virgin oil for future generations and the sustainability of the human race is to convert our transportation fuels to alternative energy. This is the first time in history where alternative energy to power transportation is cheaper than fossil fuels. The Worldwide Development Corporation estimates using the new energy invention we can **produce hydrogen at 25 cents a gallon equivalent to a gallon of gasoline** without any fluctuations due to limited resource (oil) availability. Land transportation vehicles are the easiest part of the transportation fuels to convert. I believe hydrogen combustible and not hydrogen fuel cell engines makes the most sense due to all the resources required are plentiful. Also, hydrogen combustible technology allows the world to convert the existing gasoline and diesel vehicles to run off from hydrogen very similar to a natural gas conversion.

Battery technology requires lithium which again is a limited resource and if we are not careful we will be in the same situation as oil (limited resource - gas and diesel) dependent vehicles today.

Airline fuel will be a little more difficult of a transition due to the lack of technology. There is another promising liquid fuel that is derived from electricity, water and carbon which is being researched at various laboratories around the world including UCLA. If this technology proves to be viable then not only can airlines use the technology but small engines in lawn mowers, leisure boats, etc. will be a much easier transition from oil based products.

The world will need to create multiple Manhattan style projects to convert all our vehicles (autos, planes, boats, etc.) to run off from alternative fuels as quickly as possible if we want any chance to preserve the virgin oil for future generations in order to be able make plastics in the future which is required to support billions of people long term.

Finally there are already hydrogen pumps that look similar to a gasoline pump that can create the hydrogen right at the time

of fueling which is a very safe delivery system. **Anytime there is electricity available then there is no reason to create and store hydrogen in large quantities.** Instead we should only be creating hydrogen right at the time of use where ever possible. The one exception is in transportation vehicles which require a small amount of hydrogen storage for power.

Vertical Farming

The new energy invention can also power led lights, heat, etc. for vertical farms. The reason why vertical farms are even part of this discussion is to reduce **deforestation**. Vertical farms are a very efficient way of reducing farm land to grow small crops.

Miscellaneous

We will need to convert large boilers to heat water in large cities to be run off from hydrogen instead of natural gas. Again the

hydrogen can be generated right at the time of use in order to have an easy safe transition. We will need to convert our home heating to either electricity or hydrogen over time. There are many things that will be necessary over time in order to reduce mankind's independence on fossil fuels.

Conclusion

The transition from a fossil fuel, consumption, throwaway society to an alternative energy recyclable society will require a commitment of everybody on the planet.

We have the ability to create a brave new world where humanity can survive and thrive for millions of years if we have the courage to be "BIGGER than OURSELVES"