

## Worldwide Development Corporation Research Summary

**John Rosebush**

CEO and President World Wide Development Corporation

**Corresponding author:** John Rosebush, CEO and President World Wide Development Corporation, USA. E-mail: johnrosebush@wdcpower.com

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Mankind's ultimate responsibility is to create a sustainable planet for humanity because without it everything else is a moot point. Once in a while something does come along that is more important than money and this is one of those times.

During the past 4,000 years mankind has been able to survive and thrive without any concern of limited natural resources or population growth. But over the last 70 years the world's population has grown from 1.5 billion people to over 7.4 billion people with no signs of slowing down. This has caused a great strain on our limited world resources that is unprecedented in human history. Without drastic changes our world as we know it today will cease to exist in the not too distant future.

The Worldwide Development Corporation (WDC) (1) was recently formed after 12 years of pain staking 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 rxfdz' -- a 1000 times over without consuming resources for a fraction of the cost of any energy generated today theo-

retically forever (2). 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.

### Detailed Discussion

We knew from the very beginning of our research that river flow was the most powerful dense natural 24/7 energy source on the planet that could be captured. The new energy invention is based on capturing kinetic energy from river flow in a different way than anything that exists today. The new energy invention doesn't use conventional turbines or anything that resembles run of the river type or traditional dams. Essentially what we are able to do is use all the force of the river and then apply leverage to generate an enormous amount of continuous torque. Each new energy invention

installation has two power units that each can capture 750 million foot pounds of torque. We then reduce the torque by 50% to account for mechanical losses and any unknowns. As we continued to refine the new energy invention we reduced the unknowns but still kept the reduction of 50% to the power projections. So if there is going to be any surprises we think it will be to the upside of the power projections. 1.5 billion Foot pounds of torque are equivalent to two gigawatts of electricity. Each new energy invention unit is rated at 1 gigawatt of 24/7 firm electricity today which includes the reduction for mechanical losses.

Once we discovered our breakthrough in the technology we didn't get all excited and pronounce what we have found to the world. Instead we continued to refine the new energy invention for two additional years. During the two years we transformed the new energy invention multiple times to where it doesn't even resemble the initial breakthrough. We simplified and improved the efficiency of the new energy invention, improved the distribution capabilities 1000 fold, standardized the engineering and fabrication to speed up the installations. Next we took into consideration the maintenance required during our design in order to reduce the downtime to a minimum and eliminate all emergency shutdowns to only one exception. We then designed our downtime around completing scheduled maintenance on that exception in order to reduce the possibilities of it occurring. Actually we built in self correcting maintenance in most cases so the actual work could be completed during normal maintenance hours without effecting the normal operation of the new energy invention. The final changes we made to the new energy invention were the capability to match up demand and power generation output automatically. This allows the new energy invention to operate without any human intervention unless there is an emergency. You may ask yourself how does the new energy invention self correct maintenance issues or change power output. The new energy invention operates in only one speed (torque range). The way we tackled the problem of a bad generator was with a clutch mechanism that can disengage the bad generator and engage the new generator that already is installed. The way we tackled changing power output was similar but we also had to

use a tension mechanism to make up for the difference in torque between the different size generators.

One of the transitions in the new energy invention allowed for the distribution capabilities to be implemented all around the entire planet. This was completed because of the ability to generate a mass amount of energy through leverage. We decided the amount of energy generated was enough to power a manmade circular river instead of relying on nature for river flow. The loss of energy to power the manmade circular river is approximately 10% of the generated energy from the river flow. This not only allowed for the distribution of the new energy invention to be geographically located anywhere but also allows for it to be placed in cold weather conditions with an insignificant additional cost. This opened up the distribution to countries in the north, islands, deserts, etc. and allowed us to power the entire planet without any regard to weather or geographical conditions.

This was the most important transition completed during the 2 years of refining the new energy invention. Before this transition we were limited to natural river flows and not in cold weather. Because of this transition it allows the world to layout in a grid like pattern the new energy invention locations for the electrical infrastructure around the world and if we overlap the new energy invention installations we build in backup capabilities which allow us to have one energy source for all our power requirements. This new energy invention also allows us to create smaller electrical grids that are manageable, eliminate large blackout possibilities, reduce cyber attacks to small areas, reduction in electricity line losses, eliminate sophisticated software to integrate intermittent energy, eliminates old technology for backup reasons, etc. Finally because the energy generation technology will be the same around the world it changes the construction, fabrication and maintenance of the power units from individual unique jobs to more like a manufacturing process. This might be one of the most important aspects to the new energy invention besides the technology of the new energy invention capabilities.

Finally once we understood the importance of the technology we decided that commercializing this technology wasn't feasible because of the huge disruption it will have on the world. For the last two years I have

attempted to bring in world leaders that can assist in the introduction and implementation of the new energy invention. The Worldwide Development Corporation biggest concern is that we implement this technology in a way that benefits the entire human race. This is important for two reasons. The first reason is because if the entire world doesn't make the transition to an alternative energy circular economy then the world will remain on a path of total destruction. The second reason is to create a much fairer and balanced world where there is hope and a chance for prosperity [3-6].

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