

Earth's Water Cycle: The Energy that will Power Civilization

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Abstract. The earth's water cycle will provide natural dispatchable energy for civilization. The ancient Archimedes lever is the energy converter to provide the solution to convert vertical tidal energy, hydropower and wastewater energy in the earth's water cycle. I propose the solution is using the energy from the weight of the water from rain cycles descending to sea level and the ocean's high tides. Using the Archimedes lever to convert the weight of every centimeter of the earth's water cycle will provide required energy to humankind in an open system. The Archimedes lever, as an energy converter in the water cycle, will have a minimum footprint. Ockam's razor centuries ago established that the simple solution is often times the appropriate solution.

1. Introduction

Civilization's quest for dispatchable natural energy resulted with hydroelectric, geothermal, wind, solar and tidal energy conversion. While hydroelectric and geothermal are the closest to dispatchable energy, wind, solar, tidal, etc. are intermittent and fail to replace fossil fuel energy. Civilization has only one dispatchable natural energy converter—the turbine evolving from the waterwheel. It requires massive footprints and is invasive to waterways. Another version of this hydroelectric system is the run-of-river hydroelectric design. Both converters require high heads, force, pressure and flow of the water cycle. The turbine is also being used for intermittent wind and tidal converters.

While the hydroelectric system was the first commercial provider of electricity worldwide, it has been overtaken by unnatural transformers of energy, namely, fossil fuel to satisfy the increasing enormous energy demands of civilization. The use of hydroelectric plants, despite still being the largest converters of energy using the water cycle, is limited and invasive.

What is needed is the ancient Archimedes lever using the weight of water supplied by the earth's water cycle. The Archimedes lever can be manufactured worldwide with modular engineering for various capacities for

scalability mobilizing industrial revolution transitioning the world towards total non-intermittent renewable energy.

2. Energy Decentralization

Satoshi Nakamoto's white paper set in motion the decentralization of things through blockchain technology. Proof of work requires energy (work) for computation, authenticating transactions resulting in value. Converting energy into digital form decentralizes a value standard. Therefore, energy will be the de facto gold standard valuing digital currency.

This evolution is being hindered by the absence of energy security in the world today. Energy security can only be achieved when civilization accesses limitless energy. Unnatural fossil fuel is limited. Utilizing the ancient Archimedes lever to convert the planet's water cycle will provide limitless energy. Limitless energy will decentralize energy, world banking, and the wealth of the world, redistributing to humankind.

3. Patent US2020/05371, Ronald Simeon Eiselstein, Inventor

The tidal energy converter has recently been patented worldwide and has initial hydroelectric, wastewater electric and tidal energy applications. Patent applications have been filed in the USA, Canada, India, the Philippines, Fiji, Brazil, Colombia and Europe. In April 2021, the PCT patent cooperation treaty international patent search resulted in approval for industrial use.

4. Deployment

The earth's water cycle is under the jurisdiction and control of governments; therefore, the energy from the water cycle must be authorized by all governments. To decentralize the limitless energy of the water cycle, the masses must have equity and incentive in the planet's water cycle energy. This can be attained by conveying energy equity with blockchain technology and offering fractional interest to the earth's population.

Upon equity distribution of the Archimedes lever technology throughout the world, civilization will mobilize its governments to an industrial revolution. Engineering and manufacturing worldwide will take place mass producing the levers to be deployed throughout the earth's water cycle. The levers will

be deployed alongside the journey of all the rivers, streams and creeks to sea level. The vertical potential energy of the world's tidal ranges will also be harvested.

4. Energy Security

As the Archimedes lever begins to convert energy from the water cycle into electricity, distribution will be widespread, energizing microgrids and grids. From microgrids the national grids will transform to a newly distributed system supplying abundant electricity. Clean limitless electricity will energize and propel civilization towards a new era of creativity and innovation.

Abundant energy will become available for POW (proof of work) blockchain technology to fully decentralize the planet's ecosystem. Wireless electrical devices will proliferate globally.

Energy security today is subject to various sources with renewables mostly being intermittent and fossil fuels being finite. The sources are geographically centralized as well, jeopardizing energy security for many people. This centralized make up of energy has a history of wars, poverty and unfairness. Harnessing the earth's water cycle would lead to true globalization.

5. Conclusion

We have proposed using the ancient Archimedes lever, one of civilization's two simple machines, the wheel and the lever, as the energy converter. We also proposed the earth's water cycle comprising the rain and ocean tidal cycles as the limitless energy to convert for civilization.

Humankind is aware of the advantages and disadvantages of fossil fuels, nuclear, and renewables today. History has recorded for hundreds of years the search for innovation to harness the natural energy of our planet. The correct converter, the Archimedes lever, has been elusive despite being discovered thousands of years ago.

Replacing gradually all energy converters with the ancient Archimedes lever along rivers, streams, creeks, wastewater systems, and tidal ranges will usher in an industrial revolution never experienced before. Mobilizing all people incentivized by equity in global energy will advance civilization

and is a Godsend.