Unlocking the Power of Ocean Waves: Diamond Infrastructure Development's Innovative Approach to Hydropower

The innovative approach to harnessing ocean waves by Kenneth W. Welch Jr. and his team revolutionizes hydropower for sustainable energy.


The Seadog Wave Facility, Willis, Texas

WILLIS, TEXAS, UNITED STATES, January 24, 2023 /EINPresswire.com/ -- Diamond Infrastructure Development, Inc., a leading renewable energy company, is revolutionizing the way we harness the power of ocean waves through the development of sustainable and efficient hydropower systems. According to a recent article in Economic Insider, "For the past decade, renowned inventor and entrepreneur Kenneth Welch Jr. and his team have been at the forefront of revolutionizing the efficiency of hydropower systems. Their latest innovation is a wave carousel, which harnesses energy from ocean waves to produce pressurized water that can be used for fluid-power applications, particularly driving turbines and generators for electricity production. This innovative solution provides hydropower without the environmental drawbacks of traditional dam-based systems. The wave carousel is eco-friendly and made from fully recyclable conventional materials, making it a sustainable option for clean energy production."

Hydropower, which harnesses the power of running water created by rivers, streams, and waves to generate electricity, is the largest source of renewable energy worldwide. It is responsible for 31.5% of total utility-scale renewable electricity generation in the U.S. in 2021 and is considered to be the most reliable and cost-efficient source of renewable energy available.

Kenneth W. Welch Jr., and his team of innovators are unlocking the vast potential of onshore hydropower to create a more secure renewable energy future. Hydropower works by diverting flowing water generated by a river, stream, or waves into a penstock, or a pipeline, guiding

pressurized water flow into a turbine. The force of the flowing water turns the turbine blades, generating mechanical energy that is then converted into electrical energy through an electrical generator. This generated electricity can then be distributed for public use or stored in batteries for future use.

From left to right: Kenneth W. Welch Jr. Founder & CEO of SeaDog Systems Inc., Georg Engelmann, CEO & President of Diamond Infrastructure Development Inc., And Steve Keinath, Board Member Global Oceanic Designs Inc.

The potential of onshore hydropower is immense and could provide more than enough power for many countries if it were properly developed and utilized. It already produces over twice as much energy as wind and over four times as much as solar. With proper use of undiscovered global hydropower resources, the potential for electricity generation is monumental for countries looking to capitalize on this clean and efficient energy source.

When considering deploying a large-scale renewable energy system, it is crucial to consider multiple factors that convey whether or not that system is truly sustainable. Diamond Infrastructure Development, Inc. takes these critical considerations into account as they search for the next viable system to bring to market. In a review of their impact on the rare earth metals supply chain, usage of land mass, toxic waste afterlife, and difficulty to scale, wind, and solar have been deemed impractical and unsustainable. Hydropower systems consistently display their superiority in overall lifecycle cost, environmental impact, ease of maintenance, and reliability.

In operation, hydropower produces no air pollution or greenhouse gasses, so it does not contribute to climate change. In terms of cost savings, generating electricity from onshore hydropower tends to be much less expensive than traditional fossil fuels and is a net positive business venture that will eventually be able to operate free of the need for government subsidies.

The technology behind onshore hydropower has advanced significantly in recent years, making it even more viable as an energy source. Diamond Infrastructure Development, Inc. is at the forefront of this innovation, developing hydropower systems that are not only sustainable and efficient but also have a manageable waste stream and a responsible supply chain.

In conclusion, hydropower presents an exciting opportunity for businesses and consumers looking to reduce their environmental impact and become more energy efficient. With the help of companies like Diamond Infrastructure Development, Inc., led by the vision of Kenneth Welch, we can overcome the obstacles standing in the way of harnessing the power of ocean waves and revolutionize clean, green energy for a sustainable future.

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