

Discover The Science Behind Global Oceanic's Breakthrough Artificial Wave Generation & SeaDog's Energy Recovery Systems

Global Oceanic Designs introduces artificial wave generation and SeaDog Energy Recovery Systems, setting new standards in sustainable energy production.

HOUSTON, TEXAS, UNITED STATES, March 4, 2024 /EINPresswire.com/ -- [Global Oceanic Designs, Inc.](#), a leading renewable energy firm, is revolutionizing the industry with its innovative artificial wave generation and SeaDog Energy Recovery Systems. As [recently featured in The Daily Scanner](#), these technologies harness



the perpetual motion of waves to generate clean, sustainable energy, setting new benchmarks in the field.

At the core of Global Oceanic Designs' revolutionary approach is a wave-generating device that combines a powered actuator with a water-displacing block, creating a cyclic forcing function that generates swells in a body of water. These swells cause a potential rise and kinetic fall of the water surface, set to harmonic frequencies tailored to the wave energy converter, driving its vertical bobbing motion.

The SeaDog Wave Energy Converter (WEC), a floating, semi-submerged structure, interacts with the waves just below the surface. As the WEC rises and falls with the waves, it contains the potential and kinetic energy, converting it into controlled hydraulic flows. A smart accumulator interface further refines these dynamic flows into an optimized constant pressure supply for electricity generation. The eco-hybrid hydro turbine then harnesses the pressurized water to drive advanced generators, producing clean, emissions-free electricity.

Global Oceanic Designs' founder, [Kenneth W. Welch Jr.](#), is a renowned entrepreneur and inventor who has dedicated his career to sustainable infrastructure and clean energy solutions. His vision centers on unlocking the clean and sustainable gifts that waves endlessly offer civilization, and his lifework aims to actualize that promise worldwide before time runs out.



We have the fundamental discoveries to harvest endless clean energy surrounding 80% of humanity. My motivation is actualizing that promise worldwide before time runs out.□”

Kenneth W. Welch Jr., Founder and Inventor, Global Oceanic Designs, Inc.

The onshore wave generation and energy recovery systems developed by Global Oceanic Designs offer numerous advantages over conventional marine renewables. By harnessing wave motion, these systems provide three times more available kinetic energy compared to alternatives like tidal barrages and offshore wind farms. Moreover, their onshore location eliminates the need for costly marine-grade construction and minimizes disruption to marine life and navigable waterways.

Global Oceanic Designs' systems also boast a fail-safe and durable design, ensuring uninterrupted wave energy

harvesting even in the face of severe meteorological effects or stresses. With redundancy and modularity built into every aspect, the company's technologies promise cost-efficient, low-maintenance operation for decades, nearly maintenance-free.

As the world faces the urgent need to address climate change and transition to sustainable energy sources, Global Oceanic Designs is poised to make a significant impact. By creating controlled, sustainable, and scalable wave harvesting systems for use 24/7 onshore, the company is taking a "century-forward" step in global wave energy production.

With the potential to provide clean electric access to half the planet, Global Oceanic Designs' artificial wave generation and SeaDog Energy Recovery Systems represent a groundbreaking solution to the world's energy challenges. As Kenneth Welch Jr.'s innovative technologies come to fruition, they may just illuminate a brighter, more sustainable future for generations to come.

For more information about Global Oceanic Designs and its pioneering wave energy solutions read the The Daily Scanner article; <https://www.dailyscanner.com/from-waves-to-watts-the-science-behind-global-oceanics-breakthrough-artificial-wave-generation-and-seadogs-energy-recovery-systems/>

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