

C-Power Announces Upcoming Sea Trials for SeaRAY Autonomous Offshore Power System in Partnership with US DOE and Navy

C-Power's SeaRAY AOPS provides in-situ power, energy storage, and real-time data and communications support that will advance the marine economy.

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Reenst Lesemann, CEO, C-Power

Columbia Power Technologies, Inc. (C-Power) today announced it will commence six-month sea trials in partnership with the U.S. Department of Energy (DOE) and U.S. Navy to test and validate the technical and economic capabilities of C-Power's SeaRAY autonomous offshore power system (AOPS).

Initially conceived during a U.S. Department of Defense project, the SeaRAY AOPS provides in-situ power, energy storage, and real-time data and communications support that will advance the marine economy toward a future of autonomous, connected and resident technologies. It is

designed to support unmanned offshore activities, including subsea vehicles, sensor packages, and operating equipment. When deployed, the SeaRAY AOPS significantly lowers costs and carbon emissions, reduces operational complexity, increases safety, and enables capabilities not available today. The system supports a wide range of potential applications that will spur innovation in critical industries such as defense and security, offshore energy, aquaculture, and science and research.

"The ocean is a power desert. Providing reliable power and real-time data communications through an AOPS is critical to unlock the full potential of the marine economy. The SeaRAY delivers these capabilities and enables a future of cheaper, safer, cleaner, more connected offshore operations," said Reenst Lesemann, CEO of C-Power. "We are excited to work with our federal partners at the DOE and Navy, as well as our technical partners on the trials, which are key step toward delivering the SeaRAY AOPS to the market."

The sea trials will begin later this year at the Navy's Wave Energy Testing Site (WETS), located off

Marine Corps Base Hawaii on the island of Oahu, Hawaii. The SeaRAY AOPS at WETS is a moored configuration consisting of a surface wave energy converter; a single, combined mooring, data, communications and power cable; and a seafloor base unit that provides 100 kWh of energy storage for payload operation. The SeaRAY, which will support several payloads during the deployment, has been developed under a \$3.2 million DOE-sponsored research and development program.

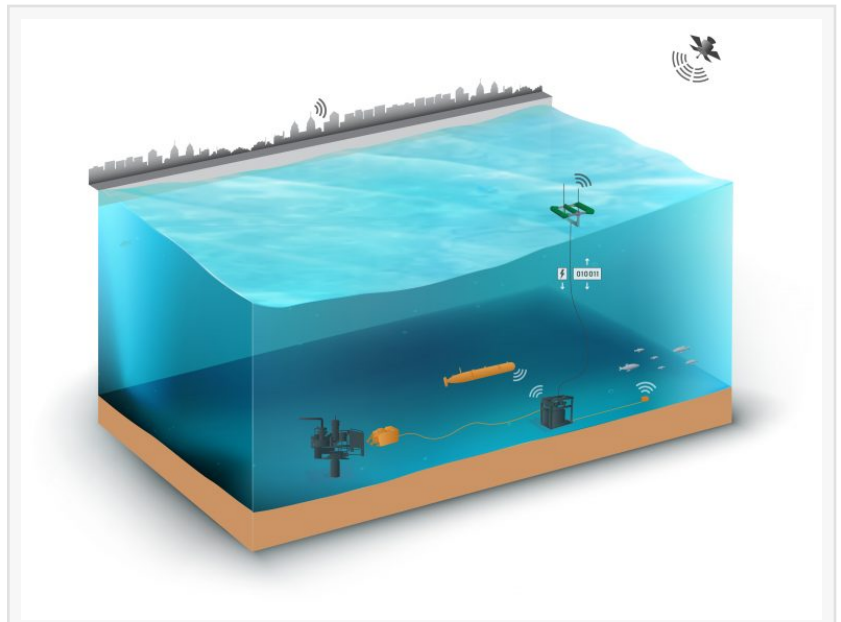
The SeaRAY AOPS is easily scalable to capacities from tens of watts to tens of kilowatts. The AOPS is designed to survive the expected conditions of a 100-year storm off the Oregon coast and is easily transported worldwide in two standard ocean containers. It will be deployed at WETS with a small, lightly-crewed vessel.

C-Power's technology partners for the sea trials include EC-OG, RigNet, EOM Offshore and Saab Group.

"Saab is leading the industry toward achievement of autonomous residence, which is an absolute market requirement for delivering reduced carbon emissions, lower costs and increased capabilities," said Peter Erkers, sales director for underwater systems at Saab Dynamics AB. "The SeaRAY provides the key operational support—power generation, energy storage and real-time communications capabilities—that enables system residency. C-Power's AOPS is the missing piece of the puzzle."

The SeaRAY's seafloor base unit will be provided by EC-OG. EC-OG's 100-kWh Halo lithium-ion battery energy storage system is designed for the harsh subsea environment and will be fully integrated with the AOPS, providing the payload interfaces for power, data and communications.

"The main driver behind Halo is to enable offshore autonomy and energy availability for remote subsea operations. We are excited to be working with C-Power and the other project partners to demonstrate the capabilities of the AOPS technology. There is huge global market potential," said Paul Slorach, EC-OG business development director.



C-Power's SeaRAY Autonomous Offshore Power System provides in-situ power, energy storage, and real-time data and communications support that will advance the marine economy toward a future of autonomous, connected and resident technologies.

Following successful completion of the WETS sea trials, C-Power expects to complete commercial launch of the SeaRAY in 2021. The company seeks partners that require clean, low-cost, easy-to-transport-and-deploy ocean energy solutions for their end-use customers and are interested in partnering on the commercial deployment of the SeaRAY and other innovative wave energy systems.

ABOUT COLUMBIA POWER TECHNOLOGIES, INC. (C-POWER)

Columbia Power Technologies, Inc. (C-Power) delivers the products the marine economy needs to change the ocean from a power desert into an energized, data-enriched environment. As a worldwide leader in wave energy systems, C-Power is developing reliable, sustainable, cost-effective energy generation and storage solutions that are easy to transport and deployable anywhere in the world for a wide range of applications benefitting critical industries such as offshore energy, defense and security, aquaculture, science and research, and communications. Based in Charlottesville, Virginia, with product development in Corvallis, Oregon, the C-Power team brings more than 150 years of successful management, operating and engineering experience. Learn more at cpower.co or connect with C-Power on [LinkedIn](#).

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