



# Greensea IQ

## Intelligent Ocean Solutions

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Sep 01, 2023 12:30 BST

## Greensea Systems, Inc. Transforms into Greensea IQ: A Unified Vision for Ocean Robotics

**Restructuring brings together Greensea Systems, Inc., Bayonet Ocean Vehicles, Inc. and Armach Robotics, Inc., under the new Greensea IQ banner.**

**Richmond, Vermont, 1<sup>st</sup> September 2023** – Ocean robotics pioneer Greensea Systems Inc., is delighted to announce its transformation into Greensea IQ, marking a strategic move that unites its former subsidiaries; Bayonet Ocean Vehicles and Armach Robotics, into a new business entity. This restructuring

reinforces Greensea IQ as a leading force in the use of uncrewed and autonomous systems to better help improve human-kind's interactions with, and understanding of, our oceans.

Greensea IQ CEO, Ben Kinnaman, articulated the driving force behind this transformation, stating, "The three arms of Greensea IQ collectively embody the overarching idea of maximising the capabilities of ocean robotics. This empowers us to explore deeper into the world's oceans, enhancing both persistence and reach, all while ensuring efficiency, safety, and productivity." This shared ethos forms the cornerstone of Greensea IQ's new identity, and serves as the guiding principle that binds its components together in a collaborative pursuit of oceanic advancement.

Greensea IQ's innovative technologies are poised to revolutionize maritime industries globally. EverClean, for instance, offers autonomous hull cleaning services that enhance ship performance, fuel efficiency, and reduce carbon emissions. With a successful commercialization phase, EverClean has proven the economic viability of its technology, and plans are in place to scale the service to a multitude of ship types in the coming years.

Additionally, Greensea IQ's advancements in the defense and environmental spheres are gaining traction. The EOD Workspace software platform offers autonomous capabilities for mine detection and classification, reducing the risk to personnel in hazardous environments. Furthermore, the company's robotics technologies are finding applications in offshore renewables, performing surveys for pre-construction work and beach landings, where traditional solutions struggle.

The restructure also prepares the company to strategically expand its operations to better serve clients across the globe with likely expansion into Europe, South America, and Southeast Asia, allowing the provision of closer service depots for robot deployments, and more effective customer support.

This reorganisation not only underscores Greensea IQ's commitment to innovation but also highlights its ambition to better align business growth with environmental sustainability.

OPENSEA, Greensea IQ's hardware-agnostic open framework for the development and deployment of cutting-edge robotics technologies, can be considered the common thread that ties together all of the company's

activities. It encompasses essential interfaces and utilities vital to the robotics and unmanned systems community that Greensea IQ has worked deeply within.

The OPENSEA library's scope is comprehensive. Evolving from this library, the OPENSEA application suite consists of a multitude of distributed independent applications. These applications synergistically function as fundamental building blocks, seamlessly interacting within the OPENSEA network. Their collective capabilities form a scalable, adaptable, and modular system.

Greensea IQ's former strategic investments in established subsea hardware technology providers culminated in the launch of Armach Robotics in 2021, and Bayonet Ocean Vehicles in 2022.

Armach Robotics pioneered EverClean, a proactive and autonomous in-water robotic cleaning solution providing always clean hulls for shipowners. Now operating under Greensea IQ the 'Robot as a Service' product, EverClean ensures the ship is always operating at peak performance by maintaining an always clean hull. Ben Kinnaman equates the EverClean approach to cleaning our teeth: "We don't wait until we have dental problems before we start daily cleaning. The small platform EverClean robots allow an approach of regular preventative hull cleaning". Thanks to OPENSEA, the EverClean robot has many tools at its disposal to plot the most efficient route thus avoiding over working and preserving coatings, plus after each cleaning operation, an accurate georeferenced hull condition survey is provided.

The Bayonet series of Autonomous Underwater Ground Vehicles, or AUGVs, also leverage the power of OPENSEA to navigate, identify objects, and process data most efficiently, and add another unique platform to Greensea IQ's range of products going forward. The Bayonet AUGVs are engineered to excel in the surf zone. They offer the flexibility to incorporate diverse environmental, oceanographic, hydrographic, benthic, and industry-specific sensors. This adaptability caters to a myriad of commercial and military applications in the surf zone and beyond.

To introduce this transformative shift to the public, Greensea IQ will unveil its new identity and showcase the combined capabilities at the upcoming Defence & Security Equipment International (DSEI) show in London, UK. The event, scheduled from 12-15 September will serve as a platform to highlight Greensea IQ's vision and the groundbreaking products it offers.

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### **About Greensea IQ**

Greensea IQ is a dynamic company born from the merger of industry leader Greensea Systems, Inc. with affiliates Armach Robotics, Inc. and Bayonet Ocean Vehicles, Inc.

By combining forces under a single brand, Greensea IQ brings together an unrivaled suite of intelligent software solutions, cutting-edge robotics as a service, and seamlessly integrated systems tailored for defense, renewable energy, unexploded ordnance mitigation, scientific collaboration, and sustainable maritime transportation worldwide.

Greensea IQ enables intelligent solutions for working in marine environments by leveraging the power of OPENSEA, one of the most capable open architecture robotics operating systems. By harnessing advanced software, autonomy, and navigation technology, Greensea IQ delivers capacity for extended reach into the oceans, facilitating persistent, efficient, and safe operations. Committed to innovation and positive impact, Greensea IQ is poised to make a significant impact on the use of subsea robotics within the world's oceans.

## Further notes to Editor

Greensea IQ combines the advanced capabilities of its OPENSEA open architecture software platform, empowering robotic equipment in the field with autonomy, integration, advanced functionalities, and seamless command and control. This includes the Bayonet vehicles, a versatile range of autonomous underwater ground vehicles capable of navigating deep ocean waters, to seamlessly transitioning into the surf zone and even onto the beach, these vehicles serve as invaluable tools for operators working across diverse marine environments.

Additionally, the EverClean Robotics-as-a-Service (RaaS) solution offers maritime customers enhanced operational efficiencies, superior performance, and reduced environmental impact. Leveraging cutting-edge robotic technology and precise hull data collection, EverClean ensures an always clean hull, while delivering accurate ship hull condition data.

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