

Innovasea Launches HydroAI™ to Help Hydro Dam Operators Improve Efficiency and Environmental Compliance

AI-powered solution counts and identifies fish in real-time, 24/7

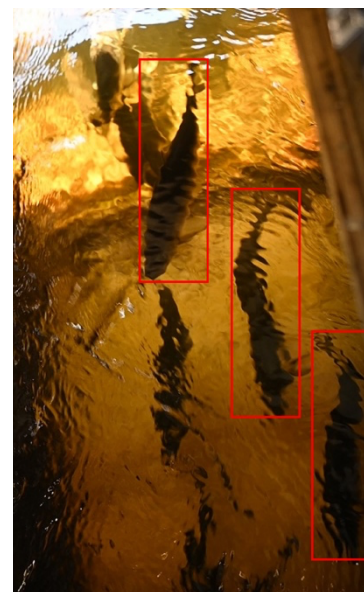
BOSTON – Innovasea, a global leader in technologically advanced aquatic solutions for aquaculture and fish tracking, today introduced [HydroAI](#), a revolutionary solution that combines high-resolution video cameras with AI-powered, cloud-based software to automatically provide accurate real-time fish counts and species identification in and around hydro-power plants.

The [HydroAI](#) cameras integrate easily with existing fish passage infrastructure to capture images of fish around the clock. The AI-powered software uses machine learning to autonomously count and identify fish with a high degree of accuracy, providing valuable data about fish that are onsite, upstream and downstream of a hydro plant. Empowered with accurate, comprehensive, real-time data about the fish in and around a dam, operators can react more quickly to dynamic conditions and make better operational decisions to ensure that fish pass safely through dam infrastructure.

The solution replaces the labor-intensive, time-consuming, and error-prone processes of manually counting and identifying fish onsite or in video footage. The data is delivered to the cloud in real-time to facilitate data sharing and transparency between hydro dam operations and regulatory authorities.

"HydroAI is a breakthrough technology that solves key problems hydropower plants face every day," said Innovasea CEO David Kelly. "With HydroAI, dam operators save valuable personnel time and get comprehensive, accurate data on fish activity, which enables them to improve environmental mitigation, comply with environmental regulations and potentially decrease unnecessary plant shutdowns," added Kelly.

"Our solution is highly relevant for hydropower, tidal power and nuclear power plant settings, including those that are in remote locations or harsh environments where it is nearly impossible to manually



Using HydroAI to count fish at White Rock Dam, Nova Scotia

monitor fish,” said Innovasea President Mark Jollymore. He noted that Innovasea has been a global leader in developing acoustic telemetry for fish research for nearly 40 years, and the HydroAI solution is a “new and essential tool for researchers who study fish passage and survival in power plant settings.”

There are seven HydroAI systems installed across three Nova Scotia Power sites, and another Nova Scotia Power site installation is planned for fall 2024. A study regarding HydroAI’s success in the field has been published in the peer-reviewed journal, [*Frontiers in Marine Science*](#).

Innovasea initially developed the technology behind HydroAI when it led a project called OceanAware under the auspices of Canada’s Ocean Supercluster, which supports, develops and commercializes profitable and sustainable solutions for monitoring fish health, fish movement and ocean environments. Building on the early success of the technology, Innovasea then launched the HydroAware project, a \$10.5 million R&D initiative that aims to improve aquatic animal research in dynamic water environments — the types of locations ideal for hydropower and tidal power.

“With HydroAI, dam operators save valuable personnel time and get comprehensive, accurate data on fish activity.”

– David Kelly, Innovasea CEO



David Kelly, Innovasea CEO

About Innovasea

Fueled by leading-edge technology and a passion for research and development, Innovasea is revolutionizing aquaculture and advancing the science of fish tracking to make our oceans and freshwater ecosystems sustainable for future generations. With more than 275 employees worldwide, we provide full end-to-end solutions for fish farming and aquatic species research – including quality equipment that’s efficient and built to last, expert consulting services, and innovative platforms and products that deliver unrivaled data, information and insights.

Learn more at [Innovasea.com](https://innovasea.com) and follow us on [LinkedIn](#) and [Twitter](#).

Contact:

Nicole Collins
VP of Marketing
617-862-0568
ncollins@innovasea.com