

Air Liquide Japan partners with Pure Salmon Japan to secure sustainable supply for nation's largest aquaculture facility

Air Liquide Japan has announced a long-term strategic partnership to supply industrial gases to Pure Salmon Japan K.K.'s landmark facility in Tsu City, Mie Prefecture—the nation's largest land-based aquaculture site. By deploying global process technologies tailored for Recirculating Aquaculture Systems (RAS), Air Liquide solidifies its structural foundation in Japan's advanced aquaculture sector while accelerating the transition toward carbon-efficient, sustainable domestic food production.

Under this agreement, Air Liquide Japan will **design, build, and operate a fully integrated gas infrastructure** delivering liquid oxygen, nitrogen, and carbon dioxide. This turnkey system ensures an efficient, continuous gas supply to specialized ozone generators critical for automated water quality and purification management.

To guarantee optimal fish growth and development rates, the facility integrates high-precision flow control systems with **Air Liquide's proprietary dual-line backup mixing technology**. Engineered for maximum uptime from the design phase through ongoing daily operations, this localized technical support secures long-term reliability for complex, high-density biological production.

Air Liquide will deliver world-class gas design engineering for large-scale aquaculture facilities by leveraging the advanced capabilities of ALTEC GIL (Air Liquide Technology Center Gas Injection in Liquid). Operational security is further enhanced by **on-site smart operations and remote monitoring systems**. These automated digital technologies link the site directly to a 24-hour support center capable of triggering immediate emergency backup procedures, ensuring resilient and secure operations.

By stabilizing these highly complex processes, the partnership delivers the operational efficiencies required to secure resilient, sustainable domestic food supply chains in Japan, combining high performance with clear societal and ecological benefits.

Koji Makihara, President and CEO of Air Liquide Japan, stated: *"This project is a significant milestone demonstrating that our advanced gas control technologies and global expertise directly contribute to the development of Japan's next-generation aquaculture industry. By providing end-to-end support from design to operation, we fulfill our role as a strategic partner supporting Japan's food production".*

Air Liquide in Japan

Air Liquide has been present in Japan since 1907, and has been contributing to the development of Japanese industries for over 100 years. Supported by a highly-skilled workforce of approximately 2,000 employees, The Group supplies key molecules to companies in electronics and other industrial fields, collaborating with our clients in problem solving and joint research.

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Oxygen, nitrogen, hydrogen, and many other essential small molecules are the invisible pillars of our world and our lives. They have been at the core of the Group's activities since its creation in 1902.

A world leader in gases, technologies and services for industry and healthcare, Air Liquide acts as the backbone of numerous economic sectors, serving 4.3 million customers and patients across 59 countries with approximately 65,000 employees. With revenues close to 27 billion euros in 2025, Air Liquide combines strong performance and useful growth.

The Group is a leader with a diversified, resilient business model and a strong local footprint across the globe. Through deep engineering expertise and technological innovation, Air Liquide provides scalable solutions that enhance industrial efficiency, accelerate decarbonization, and strengthen value chains. Strategically exposed to growth markets and megatrends, the Group accompanies major industrial and societal transformations to create long term added value and build a sustainable future.

Air Liquide is listed on the Euronext Paris stock exchange (compartment A) and belongs to the CAC 40, CAC 40 ESG, EURO STOXX 50, FTSE4Good, and Dow Jones Best-in-Class Europe Index indexes.

