

Europe Land-based Aquaculture Systems Market Forecast to 2030 - Regional Analysis by Component (Software and Services (Training Market, Integration Market, and Other Service Market)), Enterprise Size (Large Enterprises and Small & Medium Enterprises)

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Abstracts

The Europe land-based aquaculture systems market is expected to grow from US\$ 141.93 million in 2022 to US\$ 380.47 million by 2030; it is estimated to register a CAGR of 13.3% from 2022 to 2030.

Increased funding allows for research and development in land-based aquaculture technologies, further leading to the development of more efficient and sustainable aquaculture processes with advanced waste management, water filtration, automation, and monitoring systems. Land-based aquaculture systems are often more environmentally sustainable than traditional open-water fish farming. By investing in land-based aquacultures, European countries can reduce the environmental impact of marine-based aquacultures by keeping a check on water pollution and habitat destruction. Moreover, it helps protect aquatic ecosystems by preventing the spread of diseases and parasites to wild fish populations. Several funding initiatives have been taken by the governments of EU countries, private investors, and research institutions to support the development and expansion of land-based aquaculture systems. European Maritime and Fisheries Fund (EMFF) and Horizon 2020 are a few such initiatives taken by stakeholders in the aquaculture industry in Europe. In May 2023, Big Akwa planned to build a land-based rainbow trout farm in Sweden with a 6,000-tonne capacity with an investment of US\$ 369,426 million. Therefore, an upsurge in funding initiatives favors the Europe land-based aquaculture systems market growth.

Several technological advancements in water treatment and filtration processes

(especially in RAS), and automation and monitoring [through artificial intelligence (AI)] have helped companies to transform the world of precision aquaculture. Land-based aquaculture, in particular, is the most sustainable option for raising fish and other species, and AI has become crucial to make this method more efficient and effective. By utilizing AI algorithms, farmers can optimize the growth and health of fish, thereby reducing the need for costly inputs such as medication and feed, lowering the costs of outputs, and increasing the efficiency of the farming process, which makes it a preferred option for consumers looking for a sustainable source of animal protein sourced from aquatic ecosystems. Advanced water treatment and filtration technologies—mechanical, biological, and chemical—are crucial in land-based aquaculture systems as they help remove solids, excess nutrients, and contaminants from the water, ensuring optimal water quality for fish health and growth. In addition to filtration techniques, ozone and UV disinfection are used to maintain water purity and prevent diseases. Sensors, cameras, and monitoring software enable real-time monitoring of water parameters, fish behaviors, and feeding patterns. These technological advancements in Europe land-based aquaculture systems market are driven by the need for sustainable and efficient production, meeting consumer demand for high-quality seafood, and adhering to stringent environmental regulations. Therefore, technological advancements in land-based aquaculture systems are bringing new trends into the Europe land-based aquaculture systems market growth.

Water-Proved GmbH, Hesy Aquaculture BV, ULTRAAQUA AS, Veolia Environnement SA, FutureFish Aquaculture GmbH, AKVA Group ASA, AquaMaof Aquaculture Technologies Ltd, GroAqua Grp, FTN AquaArt AG, and Xylem are a few Europe land-based aquaculture systems market players profiled in this market study.

Based on system type, the Europe land-based aquaculture systems market is segmented into three types: recirculating aquaculture systems, flow-through systems, and others. In 2022, the RAS segment held the largest share in the Europe land-based aquaculture systems market. It is further estimated to record the highest CAGR in the Europe land-based aquaculture systems market. Recirculating aquaculture systems (RAS) have become a mainstream technology in Europe in the last two decades. It is a safe and environmentally friendly way to raise fish.

The COVID pandemic has a negative impact of the Europe land-based aquaculture systems market. However, the aquaculture sector reported growth in 2021, thus enhancing the Europe land-based aquaculture systems market in 2021. The government of Europe has taken various initiatives to recover from the COVID-19 pandemic. For instance, in June 2021, European Institute for Innovation & Technology

(EIT) announced the launch of seven new projects in the aquaculture sector and the addition of 18 new partners to its community, which aims to provide healthy and sustainable food systems. Thus, governments of European countries aim to ensure sustainable and resilient aquaculture production by focusing on high fish performance, nutritional quality, health, and product safety. To achieve this goal, the project develops innovative tailor-made diets for the two main aquaculture species—fish and salmon—and fine-tuning ingredients and low eco-footprint aqua feed formulations for smart, optimized, and better-performing conventional and organic aquaculture. Hence, with an increase in demand for seafood, the adoption of land-based aquaculture systems is also rising after the COVID-19 pandemic in Europe, thus positive impacting the Europe land-based aquaculture systems market growth post pandemic.

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