

Europe Recirculating Aquaculture Systems Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Offering (Component and Services), Component (Filtration System, Aeration System, Pumping System, and Others), and Fishery Capacity [Small Scale (Upto 20000 Liters), Medium Scale (21000-50000 Liters), and Large Scale (Above 50000 Liters)]

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Abstracts

The Europe Recirculating Aquaculture Systems (RAS) Market is poised for significant growth, projected to reach approximately US\$ 1,482.6 million by 2031, up from US\$ 841.8 million in 2023, reflecting a compound annual growth rate (CAGR) of 7.3% during this period. This growth is driven by a rising demand for sustainable seafood, efficient water usage, and advanced aquaculture technologies.

As consumers in Europe become increasingly aware of the environmental impacts associated with traditional food production methods, there is a notable shift towards sustainable, land-based aquaculture practices. Recirculating aquaculture systems, which allow for fish farming in a controlled, closed-loop environment, are particularly well-suited to meet these demands. These systems recycle water and minimize waste, addressing both ecological concerns and the need for sustainable seafood production.

A recent partnership between AKVA Group and Laxey (formerly ILFS) exemplifies this trend. In September 2023, they announced plans to install RAS in Vestmannaeyjar, Iceland, aimed at providing a reliable supply of smolt for Laxey's upcoming grow-out

phase. This initiative underscores the commitment to sustainable aquaculture practices and highlights the growing investment in RAS technology across Europe, with AKVA Group securing €42 million (approximately US\$ 44.2 million) in financing for the project.

The market segmentation of the Europe RAS market reveals several key areas of focus. By offering, the market is divided into Components and Services, with the Components segment holding the largest share in 2023. Within the Components category, the market is further segmented into Filtration Systems, Aeration Systems, Pumping Systems, and others, where Filtration Systems also dominate. Additionally, the market is segmented by fishery capacity into Small Scale (up to 20,000 liters), Medium Scale (21,000-50,000 liters), and Large Scale (above 50,000 liters), with the Large Scale segment leading in market share.

The outlook for the Europe RAS market is promising, driven by the increasing demand for seafood and the environmental challenges posed by traditional aquaculture. RAS technology, which recycles water within a closed-loop system, offers a sustainable alternative that minimizes the ecological footprint of fish farming. These systems provide greater control over production conditions and enable fish farming in locations where conventional methods may be impractical or unsustainable.

Moreover, advancements in RAS technology are enhancing scalability and flexibility, making it easier to adapt these systems for various scales and species. This adaptability allows for customization to meet the needs of different fish species, from freshwater varieties like tilapia to saltwater species such as salmon and sea bass. As the technology continues to evolve, it is expected to attract a broader range of aquaculture producers and consumers, further driving market growth.

Geographically, the Europe RAS market is segmented into several countries, including Germany, France, Italy, the United Kingdom, Russia, Norway, Spain, and the Rest of Europe. Norway currently holds the largest market share, reflecting its strong commitment to aquaculture innovation. For instance, MossHydro AS recently secured a NOK 1.8 million (approximately US\$ 0.2 million) contract to enhance membrane filtration systems for a large land-based salmon hatchery in Vestland, Norway. This facility, equipped with various RAS technologies, is set to produce over 10 million smolts annually, highlighting the significant investments being made in RAS technology in the region.

Additionally, the Norwegian aquaculture company SIFT Group has successfully tested

an innovative RAS that utilizes super-intensive farming technology, designed to mimic fast-moving streams. This pilot project aligns with the increasing demand for advanced RAS technologies in Norway, further propelling the growth of the RAS market in the country.

Key players in the RAS market include Veolia, AKVA Group ASA, Innovasea Systems Inc., FutureFish Aquaculture GmbH, Xylem Inc., MAT-KULING RAS, PR Aqua, Integrated Aqua Systems, AquaMaof Aquaculture Technologies, and Aquavet Solutions. These companies are actively pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to consumers.

In summary, the Europe Recirculating Aquaculture Systems Market is on a robust growth trajectory, driven by the increasing demand for sustainable seafood and advancements in aquaculture technology. The shift towards land-based aquaculture practices, coupled with significant investments in RAS technology, positions this market for continued expansion in the coming years.

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