



Environmental Management in Pisciculture: Strategies for Sustainable Fish Farming

Kalls Glena*

Atmosphere and Ocean Research Institute, University of Tokyo, Japan

***Corresponding author:** Kalls Glena, Atmosphere and Ocean Research Institute, University of Tokyo, Japan, E-mail: kallsglena@gmail.com

Received: 02-Oct-2024, Manuscript No: jfp-24-152755, **Editor assigned:** 04-Oct-2024, PreQC No: jfp-24-152755 (PQ), **Reviewed:** 18-Oct-2024, QCNo: jfp-24-152755, **Revised:** 24-oct-2024, Manuscript No: jfp-24-152755 (R), **Published:** 31-Oct-2024, DOI: 10.4172/2332-2608.1000582

Citation: Kalls G (2024) Environmental Management in Pisciculture: Strategies for Sustainable Fish Farming. J Fisheries Livest Prod 12: 582.

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livestock rearing, these systems optimize resource use and create a more resilient farming model. Additionally, the involvement of regulatory frameworks and community participation is crucial in promoting sustainable practices within the industry. Engaging local stakeholders fosters a sense of ownership and responsibility, empowering communities to implement and uphold environmentally friendly practices. This paper reviews existing literature, case studies, and

example, fish waste can be utilized as fertilizer for plants, while crops can provide feed for fish. This circular approach optimizes resource use, reduces waste, and enhances overall productivity [5].

Resource Efficiency and Waste Management

Improving resource efficiency is another key strategy for sustainable pisciculture. Efficient use of feed, water, and energy can significantly reduce the environmental footprint of fish farming. Techniques such as precision feeding, which tailors feed inputs to the specific needs of fish, can minimize feed waste and reduce pollution. Additionally, implementing effective waste management practices, such as proper treatment of effluents and the recycling of organic waste, is essential for