

PANEL SESSION IV: AQUACOMBINE FUTURE POTENTIAL

Utilization of AQUACOMBINE results from a product and process perspective.

Prof Dr Axel Gottschalk, Bremerhaven University of Applied Sciences, who worked with his team on the technical and economic analysis and the business plan, provided insights into the results. The other panelists represented a product or service that benefits from the results of the AQUACOMBINE project. They shared their experiences and gave answers to the questions of what is the most important result for their company, how they benefit from it and what they expect for the future.

MODERATION



SABINE HOFEL FOOD-PROCESSING INITIATIVE E.V.





PROF. DR.-ING. AXEL GOTTSCHALK UNIVERSITY OF APPLIED SCIENCE BREMERHAVEN



CHRISTOFFER MØLLER KRIST CEO, ALPHA AQUA A/S



CEO, HALOREFINE



EVELYNE KABEMBA KANIK CEO, HALODERMA





On stage with the moderator Sabine Höfel, Food-Processing Initiative e. V.-Processing Initiative e.V. were: Prof. Dr.-Ing. Axel Gottschalk, University of Applied Science Bremerhaven, Christoffer Møller Kristensen, CEO Alpha Aqua A/S, Evelyne Kabemba Kaniki, CEO Haloderma and Henrik Tribler, CEO Halorefine.

Christoffer Møller Kristensen, CEO of Alpha Aqua A/S, reflected on the results of Alpha Aqua. Alpha Aqua has successfully implemented three demonstration systems for combined fish and Salicornia europaea farming. These systems are known as nanoRAS, Steelhead and flexrack systems. The modular concept makes it possible to respond to the needs of small or medium-sized fish farms as well as large fish farms. The vertical flexrack raceways are specially designed to maximise the biomass of flatfish per square metre of surface area. AQUACOMBINE gave the possibility to design, implement, and proof these concepts. All systems are market ready. This means that the AQUACOMBINE project makes it possible to cultivate fish in aquacultures in a more sustainable way.

Henrik Tribler, CEO of Halorefine, pointed out that the AQUACOMBINE project enabled the development of a modular biorefinery concept that can be used on farms and can economically utilize all fractions of the biomass produced in a simple and common way. As part of the AQUACOMBINE project, the use of the fractionated extracts in food, animal feed and cosmetics was tested. These test indicated that the extracts are suitable for food, feed and especially for use in cosmetics.

Evelyne Kabemba Kaniki, Managing Director of Haloderma, said that without the project, she would not have been able to utilize all fractions of Salicornia to expand Haloderma's ingredient inventory and product line. Another plus was the proof of the cream's positive effect on skin irritations. This gives her the opportunity to further expand her business in the future.

Salicornia biomass was also tested in dairy products. Even though the cream cheese test was still ongoing, Sylvia Fasse from Bremerhaven University of Applied Sciences was able to give initial positive feedback on the results. The taste and also the functionality were tested positively.

Besides this first business cases Prof. Dr.-Ing. Axel Gottschalk, University of Applied Science Bremerhaven, who worked with his team on the technical-economic analysis and the business plan, provided insights into their findings. First numbers are very promising. His tip on what to consider before going on the AQIACOMBINE journey is on one hand the area that have a huge influence on the economic efficiency of the system, and on the other hand, that ecological, economic and social aspects should be taken into account to create a sustainable system that benefits everyone, human and nature.

