

# 4Feed Future

**FEED THE FUTURE  
OF AQUACULTURE**

SKRETTING  
a Nutreco company





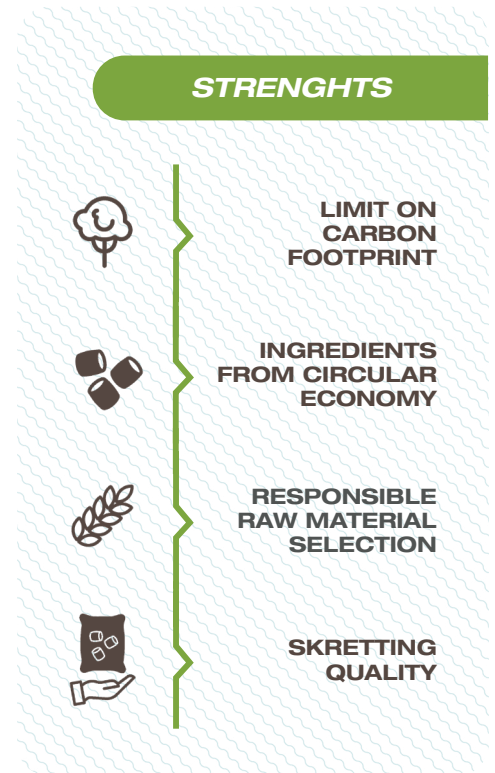
## FEED THE FUTURE OF AQUACULTURE

F4F feeds are formulated with a focus on their environmental impact, both in terms of carbon footprint and effects on biodiversity. By using innovative ingredients from circular economy, the carbon footprint of F4F is limited to a threshold value of 1 kg CO<sub>2</sub> eq/kg, while maintaining complete independence from forage fish (FFDR=0) and applying very strict sustainability standards in raw material procurement (requirement managed through mass balance).

### WHAT DOES FFDR STAND FOR?

FFDR, or Forage Fish Dependency Ratio, measures the amount of forage fish used to produce a certain amount of farmed fish.

A low FFDR indicates a lower impact on species at the bottom of the food chain.

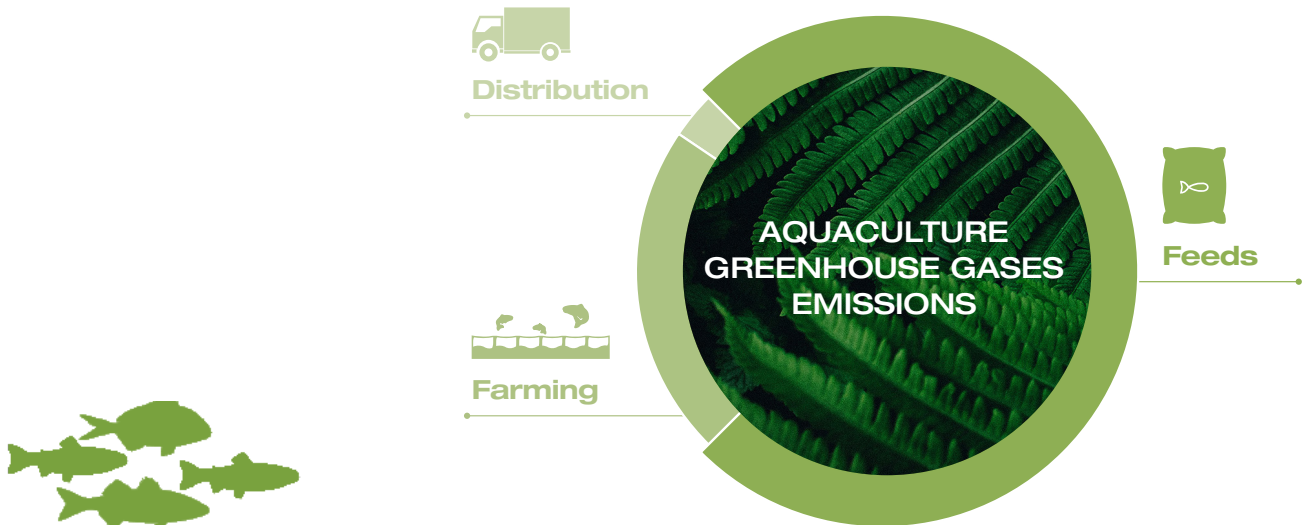


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## **GLOBAL WARMING**

Global warming, driven by greenhouse gases emissions, represents the most significant challenge of the 21st century.

In a market increasingly informed and sensitive to environmental issues, forward-thinking companies have a great opportunity: to transform environmental sustainability from a constraint into a competitive advantage. It's evident that there is growing attention to the impacts of food production, particularly within the livestock supply chain. This also extends to the aquaculture sector, where emissions are primarily originated from feed production, farm management, and the distribution of the final products.





## ***THE OVER-EXPLOITATION OF MARINE RESOURCES***

According to FAO data, approximately two-thirds of the world's fish stocks are fully exploited, while the remaining part, although not yet fully exploited, already subject to long-term unsustainable use. Fishing activities target fish for direct human consumption and for the production of oils and meals used in various applications, including as ingredients in fish feed. Alternative solutions to these ingredients relieve the pressure on wild fish stocks.

### ***SKRETTING'S COMMITMENT***

Skretting has long been engaged in seeking solutions to the issue of over-exploitation of marine resources, developing innovative concepts such as MicroBalance, which allow maximum formulation flexibility. Among these solutions, the recovery and valorisation of co-products from the food and fishing industries, perfectly align with a circular economy perspective.



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## **RESPONSIBLE SELECTION OF RAW MATERIALS**

Responsible production and consumption require consideration of other aspects beyond the traditional factors of cost and quality. That's why Skretting conducts systematic sustainability risk assessments when purchasing its raw materials, evaluating both the ingredients and their suppliers.

This assessment has enabled the establishment of strict standards for sourcing raw materials used in feed production, such as soy, palm oil, and marine ingredients. Sourcing policies aim to combat deforestation and over-exploitation of marine resources by ensuring full traceability along the supply chain.



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## WHAT ARE THE BENEFITS?

### REDUCE YOUR FARM'S CARBON FOOTPRINT

The main contributor to the carbon footprint within an aquaculture facility is the feed. By utilising Feed4Future, you can leverage this aspect and play an active role in promoting the development of an increasingly sustainable aquaculture industry.

### PROMOTE THE CIRCULAR ECONOMY MODEL

It is estimated that about one third of the world's available food resources are wasted. With Feed4Future you will contribute to valorise the co-products of the food and fishing industry by reintroducing them into the supply chain.

### BUILD A MORE RESPONSIBLE AQUACULTURE

By using Feed4Future you will promote the development of a virtuous value chain that focuses on environmental sustainability and the transparency and traceability of raw materials.

## THE CARBONBALANCE SERVICE

The CarbonBalance® programme is a service offered to our customers to help them reduce the environmental impact generated by their farming activities. This ambitious goal is achieved through a systemic approach that considers three factors: feed, production efficiency and the impacts of farming and distribution.



Skretting is a world leading producer and supplier of feed for farmed fish and shrimp. Total annual production of high quality feeds is over 2 million tonnes. Skretting has operating companies on five continents to produce and deliver feeds from hatching to harvest for more than 60 species of farmed fish and shrimp. Our purpose is #FeedingTheFuture.

[www.skretting.it](http://www.skretting.it)

