

# EFFOP – Marine Nutrients Europe

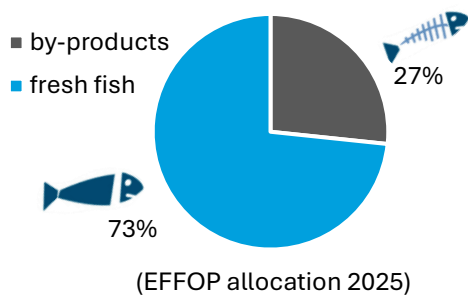
**EFFOP – Marine Nutrients Europe** represents producers from the EU as well as non-EU countries: Denmark, Estonia, Latvia, Faroe Islands, Finland, France, Germany, Iceland, Ireland, Malta, Norway, Spain and UK.

We meet international standards and certifications applying to raw materials, production, and traceability.

## Responsible use of natural resources

European fish stocks used to produce fishmeal and fish oil are subject to strict catch limitations. Total allowable catches (TACs) are based on biological advice and under governmental regulation.

All members of EFFOP support and implement the FAO Code of Conduct for responsible fisheries and **third-party certification**, such as MarinTrust and MSC.



**On average, 35% of production is based on by-products** (average 2020-2025).

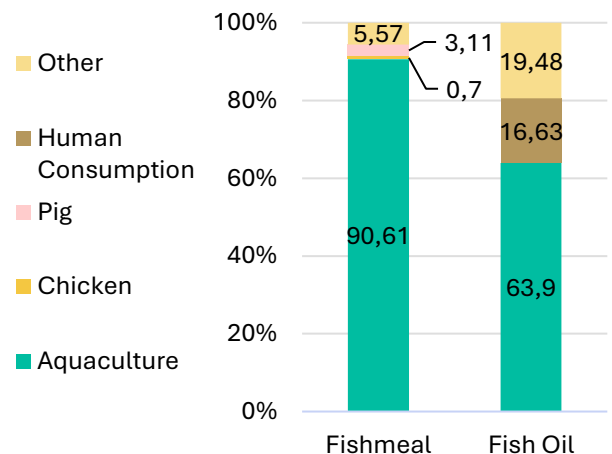
## Production and global use

Raw materials are boiled, separated, dried and grinded into fishmeal and fish oil.

**100kg raw material produce 22.5 kg of fishmeal and 5.5 kg of fish oil.**

**EFFOP members produce ~590,000 tonnes of fishmeal and ~180,000 tonnes of fish oil annually with a total export value of approximately 1.7 billion € in 2025.**

Exports go to several countries worldwide and support the important global aquaculture production.



## High-value protein and oil

**Fishmeal and fish oil are, without comparison, the most valuable feed ingredients.** Their nutritional composition, and high digestibility, support the growth and optimal physiological function and welfare of farmed fish and livestock providing essential nutrients in formulated feeds.

- High protein content of 62 to >70 %
- Rich in long chain omega-3 fatty acids (EPA and DHA)
- Essential amino acids such as methionine
- Contain important minerals such as calcium, phosphorus, and selenium
- Contain high levels of vitamins: B1, B2, B6 and B12

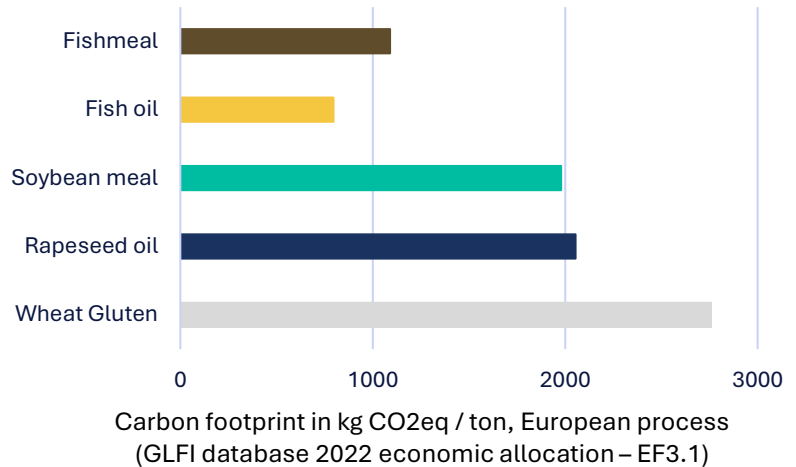
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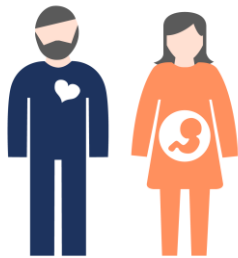
## Low carbon and environmental footprint

European marine ingredients have a low carbon footprint and is the most sustainable choice for aquaculture and agriculture.

Compared to plant-based alternatives such as soy and rapeseed, marine ingredients have a significantly lower carbon footprint. This can be measured using a **Life Cycle Assessment (LCA)**, a robust and transparent method of assessing the environmental impact of the entire production chain.



## Health benefits



**Fishmeal and fish oil provide a balanced amount of all essential amino acids, minerals, phospholipids, and omega-3 fatty acids, and help bring those into the human food chain.**

EPA and DHA are central components in all cell membranes, particularly important for the development of the brain and vision early in life. They also contribute to the function of the heart, blood system and immune system.

**Eating blue foods contributes to a healthy diet that is environmentally, socially and economically sustainable.**

## Food security

European marine ingredients production plays a crucial role in enhancing food security and strategic autonomy by transforming low-value marine resources into high-quality proteins and essential fatty acids that support aquaculture and animal nutrition.



EFFOP – Marine Nutrients Europe  
Vester Farimagsgade 3, 1  
1606 Copenhagen V  
Denmark  
Transparency Register number:  
783980638121-41

[www.effop.org](http://www.effop.org)

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