

Omega-3 Sustainability

From fishery to formulation

- We require fisheries we source from to have a 3rd-party certification of sustainable practices
- Established Supplier CO₂
 Management Program
- Life cycle assessment of Omega-3 sources available

Suppliers



We source responsibly

BASF Operations



We produce efficiently & safely for the environment

Customers



We drive sustainable solutions

- Partner with 25+ years experience in environmental impact calculations
- Product carbon footprints available* according to ISO norms and Greenhouse Gas Protocol

- Recent investments to increase product yield and reduce raw material consumption
- · Continuous optimization of water and energy use
- Conversion of side products into value-added materials
- 100% of purchased electricity for EPA96/97 production from renewable sources

www.omega3.basf.com



Contact your BASF Account Manager to get connected to our Sustainability Team

^{*} Available upon Environmental NDA signing

We minimize our impact on the oceans

With an established and comprehensive fish oil sourcing policy

- Suppliers are required to provide traceability of their fish oil to the vessel, fish species, and catch area, period, and method
- Omega-3 fish oil is derived from small pelagic species that are typically characterized as fast-growing with limited human consumption markets
- We continuously monitor stock assessments and regional fishing practices via the Food and Agriculture Organization (FAO) of the United Nations

We strictly do NOT accept:

- Endangered fish species from the IUCN Red List
- Illegal, unreported, and unregulated (IUU) fishing
- Bottom trawling
- Dynamiting/ poisoning





We source responsibly

We require the fisheries we source from to have a 3rd-party certification* of sustainable practices

Here are some of the critical topics that are covered with certifications:



Biodiversity

- Stock status quotas
- By-catch limits



Environment

- EHS standards
- Minimization of marine pollution & CO₂ footprint



Traceability

- Species & origin identification
- Management & traceability framework



Society

- Labor rights & benefits
- Employee safety
- No child labor



Accountability

- Regular audits & record keeping
- Violation repercussions

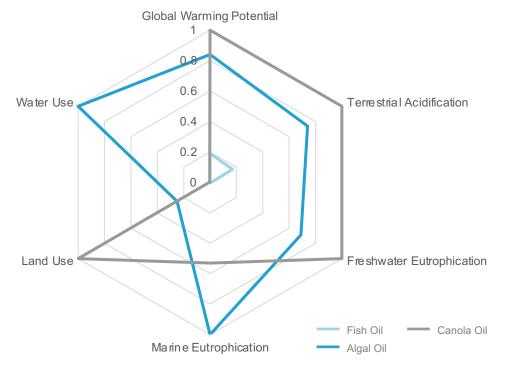


Accepted certifications: Marine Stewardship Council (MSC), MarinTrust / IFFO RS, and Friends of the Sea (FOS). Fishery improvement programs are accepted if there is a credible path towards certification.

Environmental impact of Omega-3 sources*



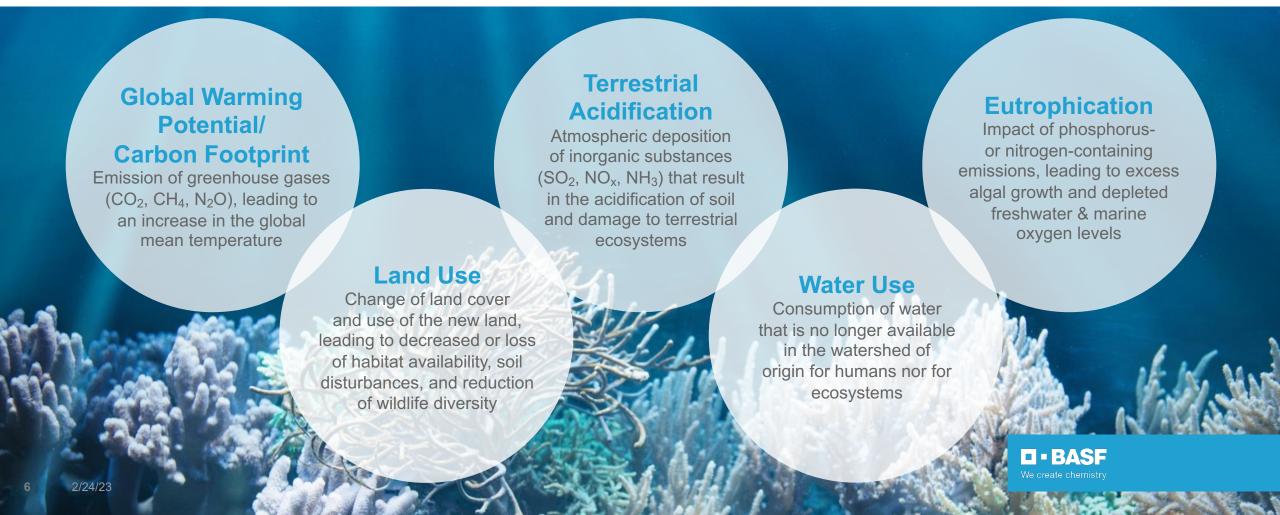
Using recognized Life Cycle Assessment (LCA) methodology



* Results according to BASF internal environmental impact assessment (2022) according to ISO 14040/44 standards and ReCiPe LCA methodology.

- Fish oil has the lowest impact in all six environmental categories evaluated in this assessment
- Canola oil and algal oil are agriculturally based (e.g., canola crop and sugar source for algae fermentation) and therefore have higher impacts in nearly every category due to fertilizer use, crop harvest yield, and oil yield
- Omega-3s from algal oil require 5000x more water than fish oil due to fermentation and downstream processing steps







Maximizing resource efficiency, minimizing energy & waste

2 Production sites: Callanish, Scotland & Sandefjord, Norway +100%

Through our **optimized production** processes and utilization of our value **streams** we steer towards Zero waste

Increase in utilization of FPA/DHA in fish oil over past 16 years

190%

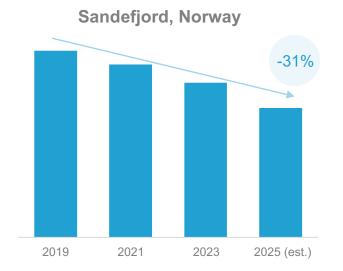
of purchased electricity in Callanish is from renewable sources

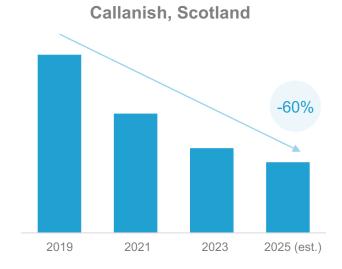


We source responsibly

Innovative OpEx projects at our sites deliver major improvements in efficiency

As an example, below is shown the actual and predicted reduction in production emissions (CO₂ eq) per kg products









We source responsibly

An experienced and committed partner

With 25+ years experience in environmental impact evaluations



Products in the value chain

- Eco-Efficiency Analysis
- SEEbalance®

Portfolio & digital solutions

- AgBalance™
- Investment evaluation

2012

Corporate

Sustainable Solution Steering

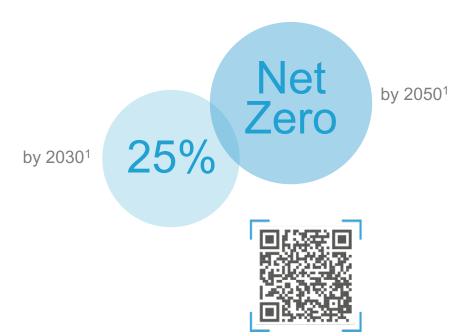
current

Value-to-Society





BASF's ambitious CO₂ emissions reduction goals



With an award-winning digital tool for product carbon footprint calculations











We actively take part along the value chain



We actively take part along the value chain

- We are in continuous dialogue with international standards & certification bodies
- ✓ We are a board member of GOED, the Global Organization for EPA and DHA Omega-3
- We work with industry groups such as the Pharmaceutical Supply Chain
- We provide environmental data transparency via credible Platforms such as CDP and ecovadis



















We create chemistry