



AlgaPrime^{DHA}[™]

**a mainstream solution that
goes one step further**

Ruud Peerbooms
Corbion Algae Ingredients President

NASF, Aquaculture Feed Summit – June 22, 2022

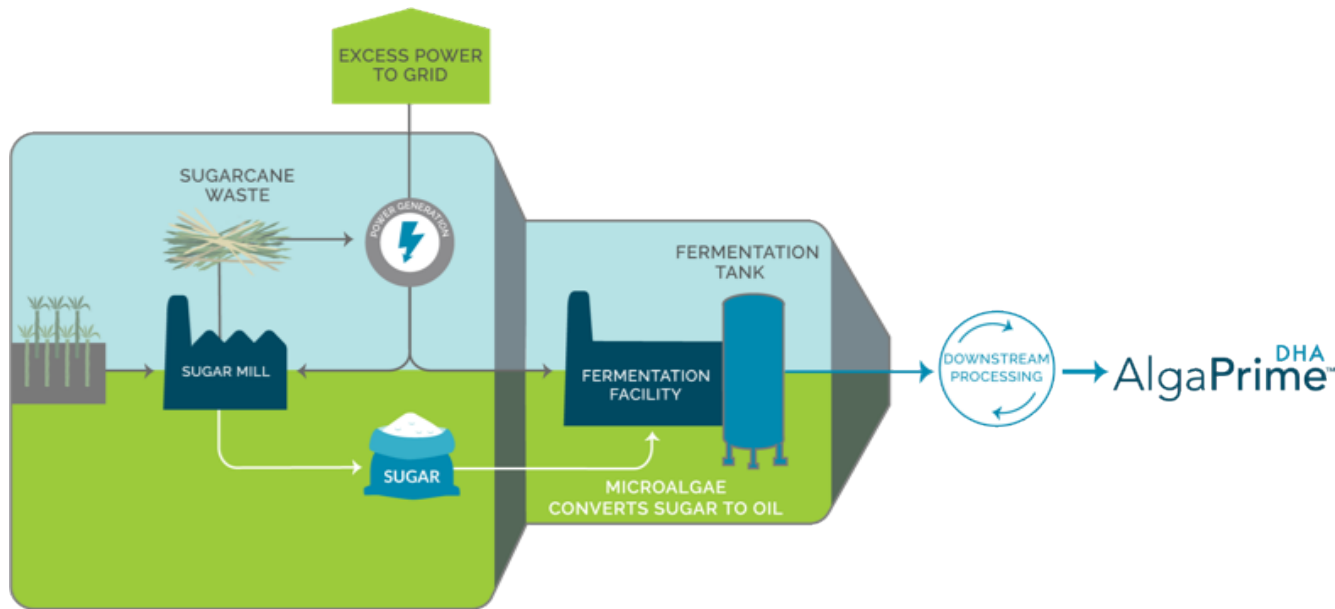


We unleash the power of Algae fermentation
to preserve the planet's limited resources



AlgaPrime™ DHA a sustainable & mainstream
solution for Aquaculture

AlgaPrime™ DHA, the sustainable alternative to fish oil, affordable and at scale

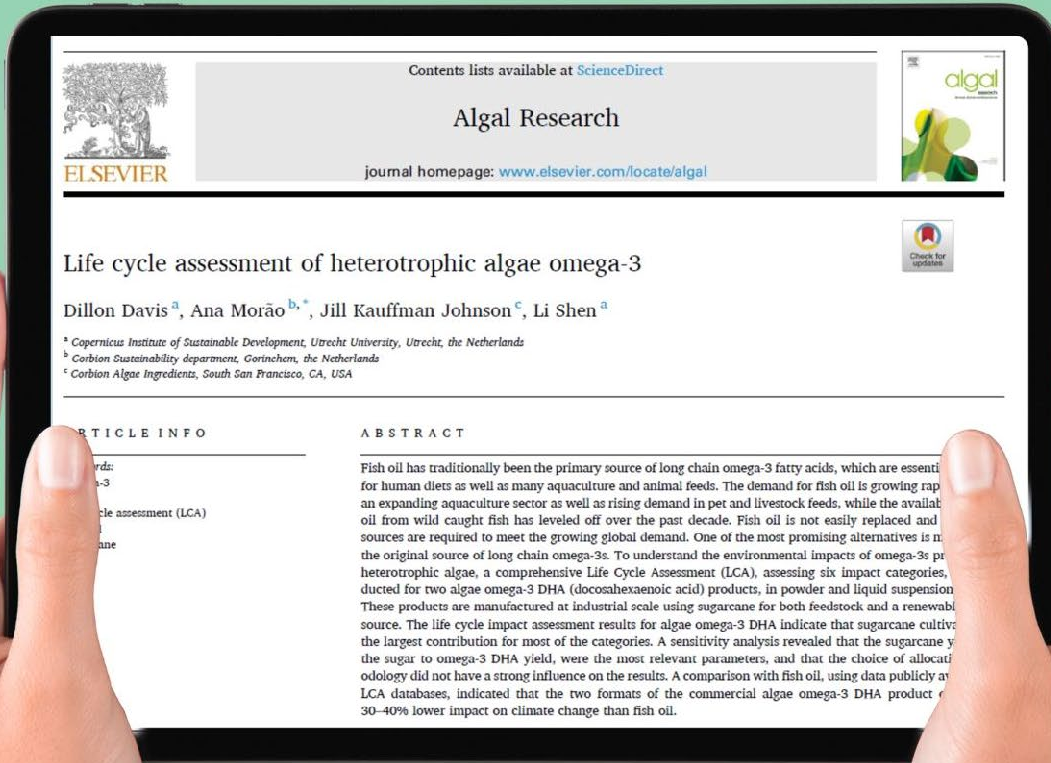


NASF, Aquaculture Feed Summit
June 2021

2021 ACHIEVEMENTS

AlgaPrime™ DHA life cycle analysis peer reviewed and accepted for scientific publication in Algal Research in September 2021

ISO 14040/44-compliant



AlgaPrime™ DHA LS carbon footprint per kg of Omega-3s is 31% lower than fish oil

Strong collaboration all along the value chain to make AlgaPrime™ DHA an efficient solution



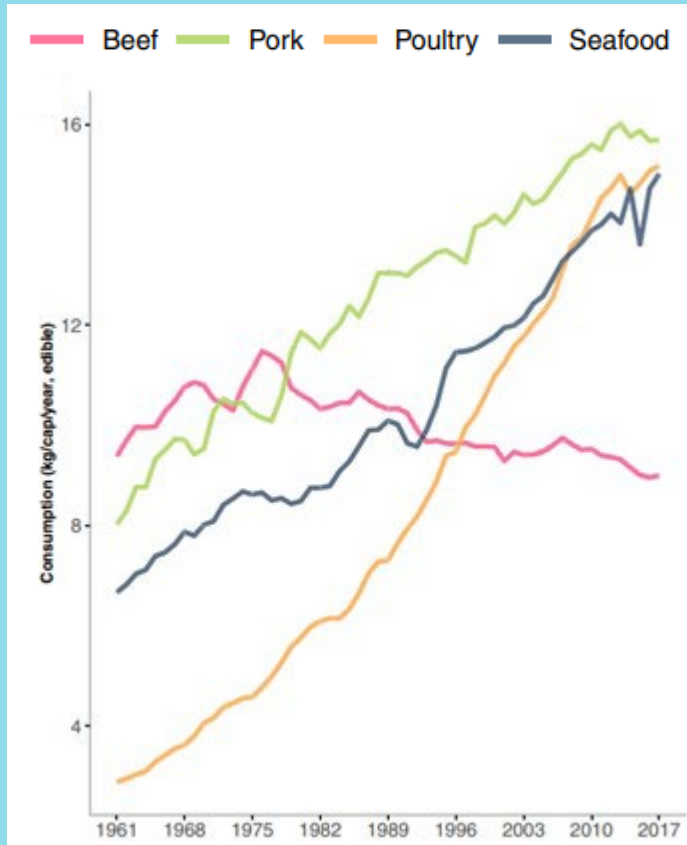
Different AlgaPrime™ DHA products in liquid and powder forms to address diverse market needs



Market Opportunities & Challenges

Aquaculture Growth

Demand for "blue food" is expected to roughly double by 2050



nature
COMMUNICATIONS

Blue food demand across geographical and temporal scales September 15th, 2021

“Numerous studies have focused on the need to expand production of ‘blue foods’, defined as aquatic foods captured or cultivated in marine and freshwater systems, to meet rising population- and income-driven demand.

We project a near doubling of global fish demand by mid-century assuming continued growth in aquaculture production and constant real prices for fish.”

[Source: Blue food demand across geographic and temporal scales \(nature.com\)](#)

Market dynamic

Although the harvest of Atlantic Salmon grew substantially over the last decade, experts predict a potential slowdown in the coming years

Security of supply and price volatility of feed raw materials

Fish welfare and robustness

Sustainability

Scaling of novel ingredients

Security of Supply

An Omega-3s solution at scale and affordable allows feed producers to mitigate raw material risks

The war is battering a global food system weakened by covid-19, climate change and an energy shock.

The Economist

Source: [The coming food catastrophe | The Economist](#)



Fish Welfare & Robustness

Ensuring a healthy diet for the Salmon to boost growth and disease prevention

More salmon than ever before died prematurely in Norwegian aquaculture in 2021.

Norwegian Veterinary Institute,
2021 Fish Health Report

Source: [Fish Health Report 2021 \(vetinst.no\)](https://www.vetinst.no)



May 21, 2022

Sustainability

AlgaPrime™ DHA LS carbon footprint per kg of Omega-3s is 31% lower than fish oil

*Our climate is our future.
Our future is in our hand.*

IPPC

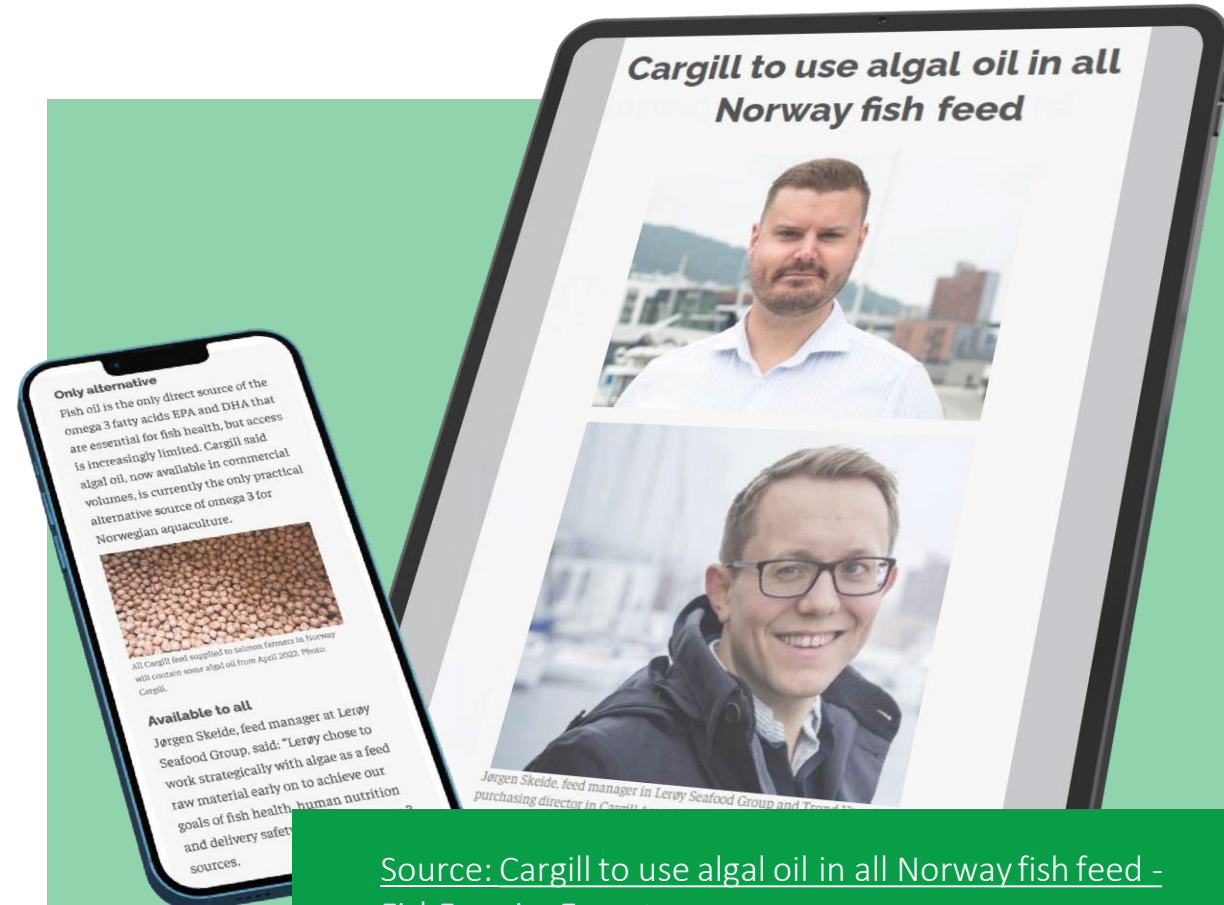
Source: [Synthesis Report — IPCC](#)



Scaling of Novel Ingredients: Omega-3 as a great alternative to fish oil



Source: [Microalgae no longer considered a niche ingredient in BioMar | BioMar](#)



Source: [Cargill to use algal oil in all Norway fish feed - FishFarmingExpert.com](#)

Corbion Algae Ingredients solutions will drive further innovation through collaboration



Grow through innovation and collaboration

The most sustainable salmon of the future combining AlgaPrime™ DHA LS and Innovafeed insect-based protein

In July 2021, Corbion joined leading organizations with the goal of creating the most sustainable salmon of the future

Research Institute



Funding Industrial Partners



Funding Public Body



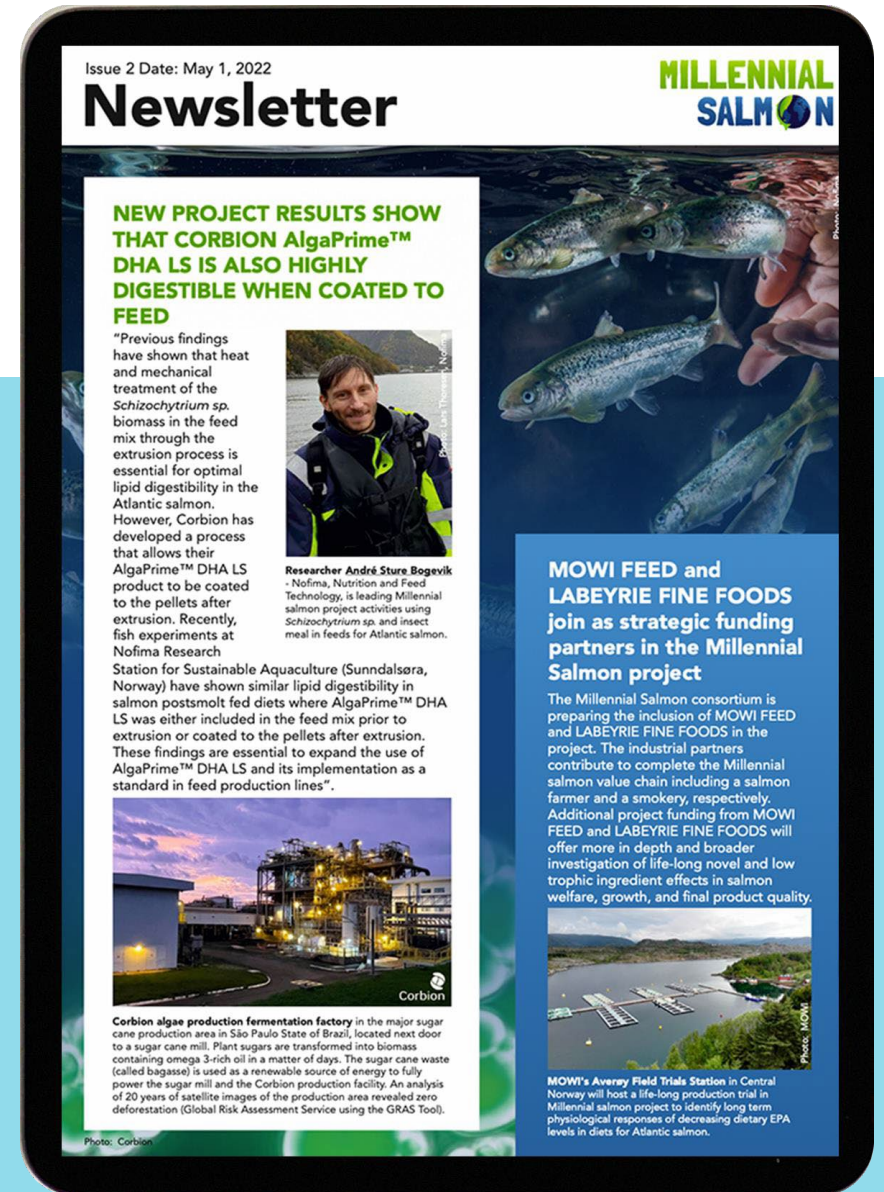
Grow through innovation and collaboration

AlgaPrime™ DHA LS is highly digestible and could be used prior or after extrusion

AlgaPrime DHA is highly digestible whether it is included in the feed mix prior to extrusion or coated to the pellets after extrusion.

These findings are essential to expand the use of AlgaPrime™ DHA LS and its implementation as a standard in feed production lines.

Nofima



Grow through innovation and collaboration

Robust and sustainable salmon based on Altech organic minerals and AlgaPrime™ DHA



Project guidance

Nutritional Innovations – The key to the great welfare changes (Ernæringsmessige Innovasjoner - Nøkkelen til de store VelferdsUtfordringene) - EINVU

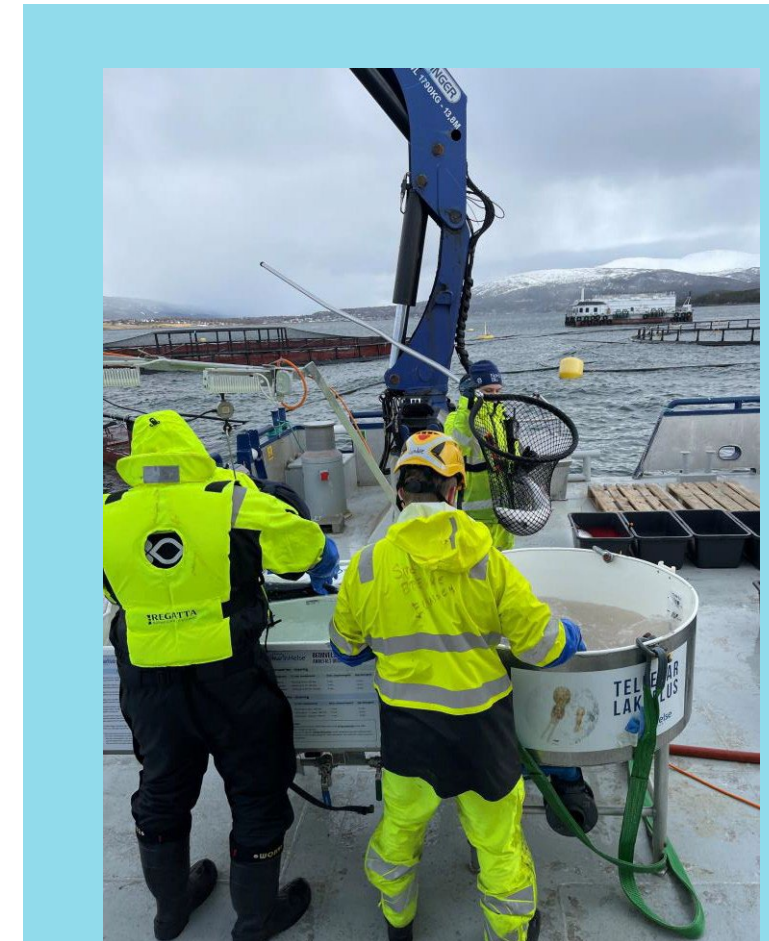
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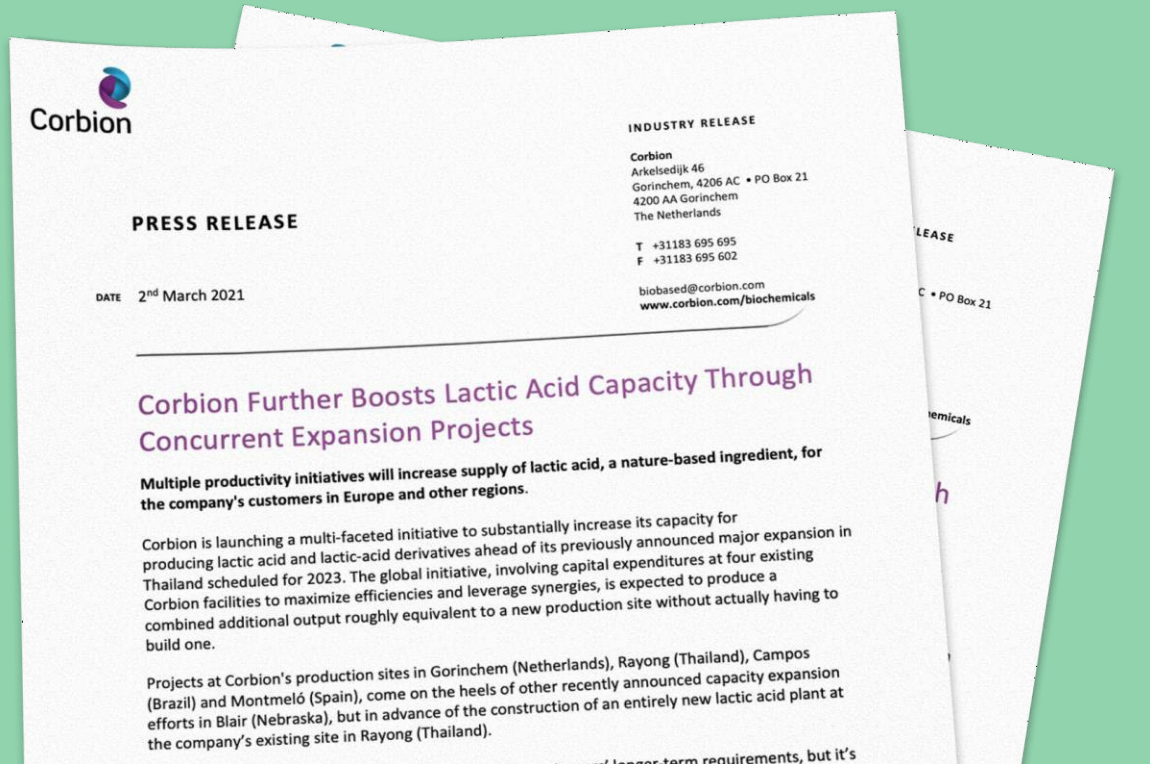
Sampling - May 3, 2022
Salten Salmon AS – Bodø



Grow through innovation sustainably

Leverage Corbion expertise, capabilities and experience

New lactic acid plant and process in Thailand



Corbion Algae Ingredients plant in Brazil



Preserve what matters™

Measure what matters and share the results with customers to help them achieve their own sustainability goals



Thank you