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# Partnership to bring sustainable soy ingredients to Northern Europe fish feed market

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By Responsible Seafood Advocate

## Companies to introduce sustainable, traceable, non-GMO CleanCRUSH™ soy ingredients with novel benefits for salmon production

**Benson Hill** (<https://bensohill.com/>), a food tech company unlocking the natural genetic diversity of plants, and **Denofa** (<http://www.denofa.com/>), the leading protein producer in Scandinavia, are partnering to introduce sustainable soy protein ingredients into the Northern European aquaculture feed market.

Northern Europe serves as the world leader in salmon aquaculture. Over half of the production is based in Norway, where Denofa owns a port and extensive infrastructure. Through collaboration, the two companies plan to deliver sustainable, traceable, non-GMO soy ingredients with novel benefits to serve the region.


“The European aquaculture market is growing rapidly, and Benson Hill’s proven performance soy ingredients will be an important ingredient in fish feed,” said Hans Petter Olsen, CEO of Denofa. “Denofa




Benson Hill and Denofa are partnering to introduce sustainable soy protein ingredients to the aquaculture fish feed market in Europe. Photo courtesy of Benson Hill.

has a long history of providing traceable non-GMO, sustainable and certified soy products to the Scandinavian agricultural feed and food market, and we are now eager together with Benson Hill to offer good solutions for the aquaculture segment as well.”

Denofa soy meal is sold to the feed market, mainly in Norway, Sweden and Finland. Benson Hill uses advanced breeding techniques to leverage biodiversity within plants and develop improved ingredients, starting with better seed. The Company’s CleanCRUSH™ ingredients derived from its Ultra-High protein, low anti-nutrient soybeans avoid the need for costly concentrating steps typically required for commodity soybeans.



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CleanCRUSH™ ingredients are designed as a less-processed alternative to feed-grade Soy Protein Concentrate (SPC) and require up to 83 percent less water and up to 89 percent less carbon dioxide emissions to produce per unit of protein compared to non-U.S. sourced feed-grade SPC accounting for the impacts of deforestation.

CleanCRUSH™ ingredients demonstrate equivalent performance to an SPC-based diet in trout and Atlantic salmon. The products also demonstrate strong performance when replacing fishmeal in pacific white shrimp, yellowtail and cobia.

“Denofa is a trusted leader in the soy industry renowned for its extensive networks and highest standards of quality and sustainability,” said Andres Martin, Executive Vice President and General Manager, International at Benson Hill. “Our partnership will deliver a sustainable portfolio of innovative soy ingredients that create value in the European aquaculture market.”

According to the FAO, aquaculture production is projected to reach 109 million metric tons in 2030 – an increase of 32 percent over 2018. The market is projected to exceed \$245 billion by 2027, up from \$180 billion in 2020.

Aquaculture production is recognized by the European Green Deal as a source of low-carbon protein. High-value species, such as salmon, have especially high protein dietary requirements that can be optimally served through sustainable soy ingredients.

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