

Innovative Norwegian Technologies Driving Sustainable Aquaculture

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EAST Chamber of Commerce and Industry of Norway / Black Sea-Norwegian Aquaculture Cluster

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Introduction



- Global **demand** for seafood is rapidly **increasing**
- Wild fish stocks are limited - aquaculture is **essential**
- Sustainability is now a **key requirement**, not an option

- **Norway** is a global leader in technology-driven aquaculture
- With strong cooperation between: technology companies, research institutions, government authorities
- Focus on **innovation**, environmental **responsibility**, and **fish welfare**

Innovative Norwegian Technologies

- Advanced Aquaculture Net Technologies
- Smart Fish Pens and Cage Systems
- Innovative Mooring Systems
- Fish Processing
- Digitalization & Smart Monitoring
- Environmental Protection Technologies
- Fish Welfare as a Priority

**Sustainability = environmental + ethical
responsibility**

Norwegian aquaculture technologies help to:

- Produce more food with lower environmental impact
- Improve resource efficiency
- Contribute to global food security
- Move aquaculture toward climate-smart production

Innovative Norwegian technologies are:

- Making aquaculture safer
- Reducing environmental impact
- Improving fish welfare
- Driving the industry toward a more sustainable future

Technology + sustainability = future of aquaculture

About Black Sea-Norwegian Aquaculture Cluster (BSNAC)

- The main aim of the Black Sea-Norwegian Aquaculture Cluster (BSNAC) is to **foster collaboration within the aquaculture sector, sustainable growth, and innovation.**
- BSNAC seeks to **bridge expertise between Norway and the Black Sea Region, including Türkiye,** creating opportunities for technology sharing, and capacity building.
- The vision is to be a **collaborative platform for aquaculture companies,** driving regional and international advancements in sustainable aquaculture practices.





Black Sea-Norwegian Aquaculture Cluster (BSNAC)





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Web: [Optimar AS](#)

Head office: Valderøya

Sector: Aquaculture

Optimar is a global leader for automated fish processing systems for use on board fishing vessels, on land and in aquaculture. These systems are installed as turnkey projects, either independently or in connection with third-party products. Moreover, as a full-service provider, Optimar offers complementary software products and services – from remote diagnostics and online service through to spare parts, maintenance, and retrofitting.



Web: [Mat-Kuling Vannbehandling AS](#)

Head office: Stavanger

Sector: Aquaculture

Manufacturer of water treatment equipment for the aquaculture industry, specializing in RAS. Providing all necessary equipment from a single manufacturer. Exporting worldwide with offices in seven countries.



Black Sea-Norwegian Aquaculture Cluster (BSNAC)



Web: ELDI

Head office: Søvik

Sector: Aquaculture, Maritime

Eldi (earlier Mørenot Aquaculture) is a provider of solutions to the global fishing-, aquaculture- and seismic industries. They are 800 dedicated employees worldwide within sales, service and production. The company produces various types of aquaculture nets, pens, mooring and special products developed to meet unique operational needs.



Web: SHM Solutions AS

Head office: Molde

Sector: Maritime, Aquaculture

SHM is the market leader in developing safer deck equipment for the aquaculture industry.

They provide improved marine operations – safer, more efficient and profitable.



Black Sea-Norwegian Aquaculture Cluster (BSNAC)



Web: [AMOF-Fjell Process Technology](#)

Head office: Straume
Sector: Aquaculture

AMOF Fjell Process Technology is an engineering and technology company specializing in process plants, equipment, and solutions for the marine, aquaculture, and food industries. With decades of experience, they design and deliver systems that maximize resource utilization, reduce waste, recovery of energy & heat and ensure reliable, cost-effective operations.



Web: [Normex](#)
Head office: Ålesund
Sector: Aquaculture

Normex offers sustainable solutions for water cleaning and disinfection to companies in the aquaculture, fishing, maritime and process industries.



Black Sea-Norwegian Aquaculture Cluster (BSNAC)

waister ►●

Web: [Waister](#)

Head office: Sem

Sector: Aquaculture & Food
Waste

Waister is a company based on the idea of transforming wet waste into reusable products – From wet waste to value.

Wet waste creates a lot of costly logistics, often it causes smell, spills and can attract insects and rodents as it deteriorates fast.

Logistics related to wet waste handling is intensive. Frequent collection and the use of specialized trucks are common.

Wet waste is generally difficult to recycle or reuse and has traditionally been dumped in landfills. This represents both a waste of resources as well as a source of greenhouse gas emissions.

Waister enables reuse and upcycling of wet waste fractions through superior drying technology. Turning wet waste into storable and transportable raw materials creates opportunities to upcycle it to plus products. Examples are bio-fertilizers, biogas booster, feed ingredients or pet food ingredients.

TSCHUDI

Web: [Tschudi Logistics](#)
Company AS

Head office: Lysaker

Sector: Logistics and Shipping

The Tschudi Group is a family-owned Norwegian shipping and logistics company. Hands-on in all respects, building on maritime expertise since 1883.

Today their main business is to provide integrated solutions for logistics, shipping, energy, and marine related activities. Worldwide coverage with a particular stronghold in the Nordic Countries, the Baltic, Continental Europe, and Africa. By combining different transportation modes within the Group, they provide full logistical solutions to match cargo with geographical requirements.

01

Business Opportunities

Increased export opportunities and the potential to establish local businesses are facilitated by BSNAC's focus on export strategies, which open doors to collaborative efforts that capitalize on the vast potential of the Black Sea region.

02

Diverse Expertise

The BSNAC unites aquaculture companies with varied expertise and experience, offering a wealth of perspectives and capabilities to drive the sector forward.

03

Regional Collaboration

Strengthen ties within the Black Sea area by engaging in partnerships, joint ventures, and the exchange of best practices among regional aquaculture industries.

04

Market Visits

Participate in visits to key markets across the Black Sea region, unlocking new business opportunities and forging valuable connections.

05

Seminars and Workshops

Attend expertly curated seminars and workshops to share knowledge, explore innovations, and address industry challenges.

More information about participants of the Black Sea-
Norwegian Aquaculture Cluster (BSNAC):





Signing of Memorandums of Understanding in 2025 with focus on several sectors, including aquaculture sector



EAST CCI of Norway
Chair of the Board of
Directors
Ronny Solberg



Zonguldak Chamber of
Commerce and Industry,
Türkiye
President Metin Demir



Kdz. Ereğli Chamber of
Commerce and
Industry, Türkiye
President Arslan Keleş



We are looking forward to the rest of the program, including presentations of our member companies, meeting new partners and building useful connections for a sustainable future together.

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