

# VEDLEGG

## Oversikt over landbaserte prosjekter per feb.2023 – Intrafish.com

### The top land-based salmon farming projects

The distance between "project" and "fish" is wide, but below are the announced projects along with their proposed ultimate capacity and status updates where applicable.

Company	Project Location	Projected capacity (metric tons)*	Status (Company estimates)
Andfjord Salmon	Norway	19,000	Andfjord released approximately 200,000 smolt into the company's first land-based pool at Kvalnes, Norway. The company expects to have market-sized fish to sell by mid-2023.
AquaBounty	United States	10,000	The stock-listed group began as a producer of genetically modified salmon eggs. Now operating two pilot sites in Canada and the US, and planning an additional site in Ohio. The company has been challenged by fundraising for the Ohio project. The company produced just over 122 metric tons of salmon from its facilities in 2022.
AquaCon	United States	45,000	The company is still seeking financing for its project, and recently scrapped its initial planned location for its Maryland project.
AquaCultured Seafood	United Kingdom	5,000	Backed by former Scottish Salmon Company CEO Craig Anderson and former M&J Seafood executive Mike Berthet, among others. Estimated cost of \$90 million. Planned for Grimsby, UK.
Aquagroup	Russia	5,000	Targeted completion date for project of 2024. No updates.
Aquaproduct	Russia	2,500	Company started construction of the farm in Russia's northwest Vologda region in July 2019, with a target of late 2022 production, but unclear if it met the goal. Partners with AquaMoaf.

## VEDLEGG

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Aquatrade	Russia	2,000	Major shareholder is Russian billionaire Andrei Katkov. Project scheduled to enter full operation in three stages, the first of which was planned to be completed in 2022, with the third to finish in 2023. No updates.
Arctic Ocean - Jutland Invest	Norway	30,000	Plans to build a land-based salmon facility dubbed Arctic Ocean in Kirkenes, Finnmark for NOK 3 billion (€310 million/\$346.8 million).
Arctic Seafarms	Norway	15,000	Plant is planned to be in full production with two modules in 2027.
Atlantic Salmon South Africa	South Africa	3,400	Atlantis West Coast Salmon Project, according to industry executive.
Atlantic Sapphire	United States	220,000	The most advanced and ambitious land-based salmon farming project. All eyes are on the Miami-based group, with expectations that it's success or failure will dictate the future of multiple other projects.
Baring Farsund	Norway	24,000	Building was expected to start Q4 2022 with production beginning in Q2 2024.
Berliner Landlachs	Germany	5,000	
Blue Horizon Coho Farm	China	0	No available information.
Blue Star	Canada	100	Operates the Taste of BC steelhead farm in British Columbia. Its parent company also has a land-based crab unit.
Bolaks	Norway	12,000	Not sure if started building, focus on other seafood aspects.
Brumer Development	South Africa	0	No available information.
Bulandeet Miljofisk	Norway	0	No available information.
Cape D'or	Canada	225	No update on website or elsewhere found. Cape D'or is a successor to bankrupt Canaque run by Forrest Merlin. The company is producing in flow-through and partial reuse.
Cape Nor	South Africa	0	No available information.

## VEDLEGG

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Columbi Salmon	Belgium	20,000	Columbi Salmon is establishing a land-based salmon farming project in Oostende, Belgium. Over the coming years, the company plans to establish further production facilities throughout Europe and aims to produce 15,000-20,000 metric tons annually by 2024.
Danish Salmon	Denmark	3,000	Hirtshals-based group has operated at a loss, but investment by Marubeni and Nissui is expected to jump start operations.
EcoFish Circle	Norway	6,000	EcoFish Circle is the owner of Lista Laks which will be the group's salmon producer. In May 2022, Ecofish started operating a demo tank containing 4,000 smolt. It plans to start construction of a commercial-scale farm in 2022 that it expects will be operational in 2024.
Fish Farm UAE	United Arab Emirates	0	No available information.
Fishbase Group	Norway	2,000	The company uses both RAS and Flow-through technology.

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FishFrom	United Kingdom	3,000	Co-founded by former Salmobreed and Pan Fish MD Odd Geir Oddsen.
Geo Salmo	Iceland	24,000	The project, based in Thorlakshofn, has secured licenses, and expects construction to start in the second quarter. Phase 1 will be up and running by 2026 with around 7,500 tons production. The company is raising funds, but is backed by Bull Hill Capital, an Icelandic private investment company.
Gigante Salmon	Norway	13,700	Gigante's first salmon smolt will be released into its facility in Rodoy, Norway, in the autumn of 2023. The company plans to have its first fish ready for market in 2024. It recently signed a three-year agreement with feed giant Skretting.

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Greenaquanor	Norway	90,000	Greenaquanor is seeking local government permits to build a land-based salmon and trout facility in Norway's Balsfjord municipality.
Havlandet	Norway	10,000	The company, owned by INC Gruppen, has built land-based production facilities for salmon next to INC Gruppen's existing cod and ballan wrasse facilities in Florø, Norway. The first salmon were placed in fish tanks in February 2021 and harvested in October 2021, the company said. After the success of its first harvest, Havlandet has plans to build a large-scale facility with a capacity for 10,000 ton capacity.
Helgeland Miljøfisk	Norway	0	No available information.
Hjelvik Matfisk	Norway	2,000	First commercial harvest expected of up to 250 tons expected in winter of 2023, company told LandbasedAQ.com
Jurassic Salmon	Poland	1,000	In production with small volumes sold into domestic market.
Kfarms (Salmon Evolution and Dongwon)	South Korea	8,400	Backed by Korean giant Dongwon, the group will begin construction of its South Korean \$154 million (€149 million) facility in 2023.
Katahdin Salmon	United States	5,000	Newly launched by the ex-top executives at Nordic Aquafarms Inc., the \$120 million project is slated for Maine.
Kobbevik og Furuholmen	Norway	10,000	According to industry executive, the Norwegian Food Safety Authority rejected the company's application to build the plant, but the company has appealed.
Kotoura Grand Salmon	Japan	600	Kotoura Grand Salmon in Japan's Tottori Prefecture is planning to raise coho salmon.
Kuterra	Canada	260	Kuterra, which opened in 2013 in British Columbia, is one of the longest-running land-based facilities to date growing salmon. The company is owned by Emergent Holdings, which also owns fledgling land-based salmon farmer Whole Oceans in Maine. It is unclear how much salmon Kuterra is currently producing.
Landeldi	Iceland	33,500	Expects its first harvest to take place mid-2023. It is aiming for a harvest of 4,000-5,000 metric tons in 2024. Company is funded for 3,000 metric tons of annual production, but expects to raise additional funds by late 2023.

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LocalCoho / Finger Lakes Fish	United States	350	Selling small volumes, planning expansion. New backing from Peter Pan Seafoods CEO Rodger May.
Lofoten Salmon	Norway	NaN	No visible updates since 2020.
Losna Seafood	Norway	50,000	In 2022, Losna won a court case against the state regarding permits for land-based farming.
Maiken Food	Portugal	6,000	Projected construction start date of 2022. No updates.
Mt. Cook Alpine	New Zealand	1,000	A prototype for New Zealand's first sustainable, land-based salmon farm is in the early stages of development, with backing from the NZ government.
Norcantabric	Spain	10,000	Harvest projected by 2023.
Nordic Aqua Partners	China	40,000	Plans to harvest and sell to the Chinese market in late 2024. The existing land area has a potential to accommodate an annual production capacity of 16,000 tons, but expansion is planned.
Nordic Aquafarms California	United States	27,000	No listed start date. Primary group in Norway and Denmark shifted to kingfish production. Nordic Aquafarms Group continues to pursue projects in US.
Nordic Aquafarms Maine	United States	33,000	Construction to start in 2023. Primary group in Norway and Denmark shifted to kingfish production. Nordic Aquafarms Group continues to pursue projects in US.
Nordic Salmon	Sweden	0	No available information.
Norsal	China	30,000	Signed a contract with engineering consultancy Multiconsult for construction in Yantai, China.

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Swisslachs	Switzerland	600	In 2019, Swisslachs harvested 300 metric tons. Actively seeking funds for expansion.
Tianjing Changjiufada	China	0	No available information.
Tomren Fish	Norway	10,000	Expected to start building in 2022, according to local news.
Upstream Salmon	South Africa	0	Some company filings with 2022 updates, but very little information.
Viking Aqua	Norway	33,000	First fish will be in the tank in 2023.
Vikings Label	Saudi Arabia	50,000	Founded in 2017. Company plans to expand up to 50,000 mt per year production. Unclear how much of production will be solely salmon, however.
West Coast Salmon	United States	14,000	Expected to commence early site works in 2022 after concluding its construction financing. Backed by Nutreco, American Seafoods investor Bregal Partners, along with former Aker exec Hallvard Muri, former Icicle Seafoods CEO and former High Liner CEO.
Whole Oceans	United States	20,000	In 2022, the company said it is moving forward with site preparation work after delays, but has experienced multiple personnel changes and lack of financing.
Wild Coast Salmon	South Africa	NaN	No available information.
World Heritage Salmon	Norway	100,000	Backed by Norway's Roger Hofseth.
Xcelerate Aqua	United States	10,000	Founded in 2022 by former Nordic Aquafarms execs. Permits are in place for a Maine site.
Xinjinang E'he	China	0	No available information.