

# Nordic Aqua Partners

Q3 2022

1 December 2022

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# Highlights

- Project on time and on budget, stage 1 with fixed capex
- Good biological performance, first batch is now 50 grams
- Installation of RAS 3 completed, RAS 4-5-6 ongoing
- Salmon prices in China supports long term business opportunity
- Capex of 51 MDKK in period Q3 2022 and 238 MDKK total out of total project capex of 370 MDKK (125 NOK/kg)
- Available liquidity of 379 MDKK as of 30.09.2022, including cash and undrawn credit facilities





### **Nordic Aqua Partners**

### - only producer of fresh Atlantic salmon in China



- Fully funded to reach 4,000 tonnes, equity in place for 8,000 tonnes
- Existing plan for 20,000 tonnes and an ambition to reach 50,000 tonnes, including replications on other locations
- Stage 1 production has commenced, with first harvest expected in Q1 2024
- Uniquely located near Shanghai, with access to +100 million consumers within 5 hours
- World class management team with strong RAS and local knowhow
- Dedicated support from local authorities and leading industry players





# **Project status**

- Project continues to develop on time and on budget
- Installation of RAS 3 completed in October, fish moved from RAS 2 to RAS 3 in November
- Installation of RAS 4 scheduled to be completed on schedule for fish transfer in January 2023
- Construction of RAS 5 to 9 facility in process as per plan
- Covid-19 situation in China and the war in Ukraine has fortunately not impacted progress significantly





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# Good progress at the construction site

**Construction site August 2022** 

**Construction site November 2022** 



**Stage 1:** 38k *m*<sup>2</sup>

**Stage 2:** 19k *m*<sup>2</sup>



### Senior RAS-team in place

#### Senior RAS management team

- Recruitment and training of local farming operators ongoing
- Currently 8 farming operators



#### **Working Chairman**

- >25 years of aquaculture experience
- Former MD of Mowi Norway and Global Head of Technology



#### **Assistant Farm Manager**

- ~35 years of RAS experience
- Hiddenfjord, Danish Trout farming and Fiskaaling



Farm Manager

- ~12 years of RAS experience
- Mowi, Vågåfossen Settefisk and Marineholmen RASLab



Fish Health Manager

- ~20 years of experience as a veterinary and fish health professional
- Tassal, Aquachile, Blumar and Skretting



#### RAS salmon expert

- >20 years salmon production with RAS
- Freshwater manager at Mowi & consulting for land-based projects

#### Selected reference projects

#### Faroe Islands - MOWI

Facility built by Mowi (former Marine Harvest) in 2017

Tank volume of 8,000 m<sup>3</sup> with production of 1,300 tonnes per year

Ragnar Joensen and Johan Toftegaard responsible for design and construction with technology from AKVA Group



#### Norway - Tytlandsvik Aqua

Located in Rogaland with Grieg Seafood, Bremnes Seashore, and the Viga family as largest owners

Constructed on time and budget

Stage 1 production of 3,000 tonnes per year, stage 2 with 9,000 tonnes per year

Ragnar Joensen jointly responsible for design and construction with technology from AKVA Group







# Salmon under production at Gaotang

### Hatchery



**RAS 1-2-3** 







RAS 4-5-6



**Construction: Completed** 

#### Batch 1

 First eggs arrived on site on March 9<sup>th</sup>

#### Batch 2

 Second batch of eggs arrived on site on June 10<sup>th</sup>

#### Batch 3

 Third batch of eggs arrived on site on September 10<sup>th</sup>

#### **Construction:** Completed

#### Batch 1

Introduced in May for start feeding, transferred to next facility every ~2 months

#### Batch 2

Introduced in August for start feeding, transferred to next facility every ~2 months

**Construction: Ongoing** 

#### Batch 1

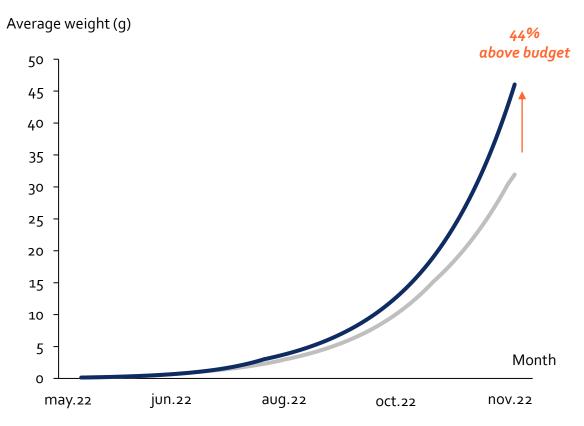
• RAS 4 on schedule for fish transfer in January



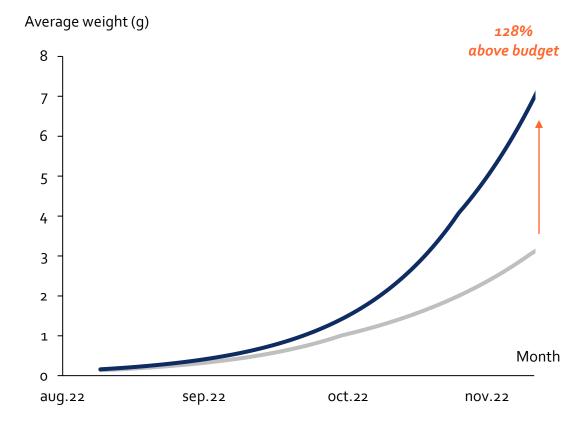


# Biological performance above budget

### Batch 1 startfed May 2022



### Batch 2 startfed August 2022



### Experience from production so far

- Facility is performing well, confirming good dimensioning high recirculation rate delivers clean water and good performance
- Able to run at higher density than budgeted while maintaining water quality and growth rate
- Survival better than expected



# 4,000 tonnes RAS facility under construction

 Delivered by leading technology provider AKVA Group and dimensioned by internal RAS team, securing robust technical design and production approach:

### √ Water replacement

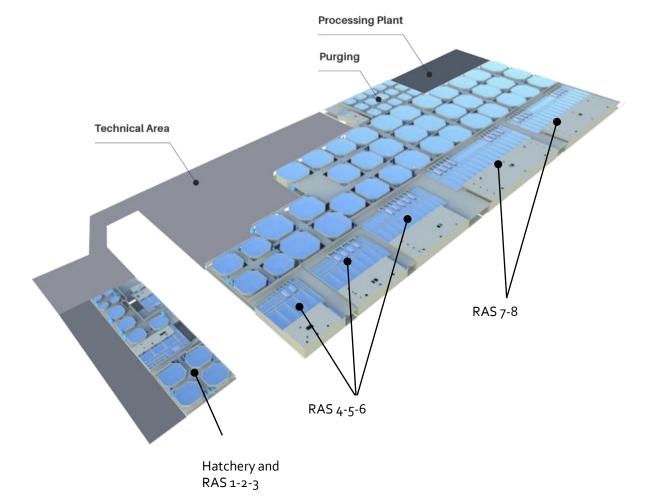
 The RAS design ensures very clear water with very high water exchange rate in fish tanks

### √ Water temperature

 Cooling capacity is sufficient to maintain ideal temperature for Atlantic salmon

### √ Running with low saline water

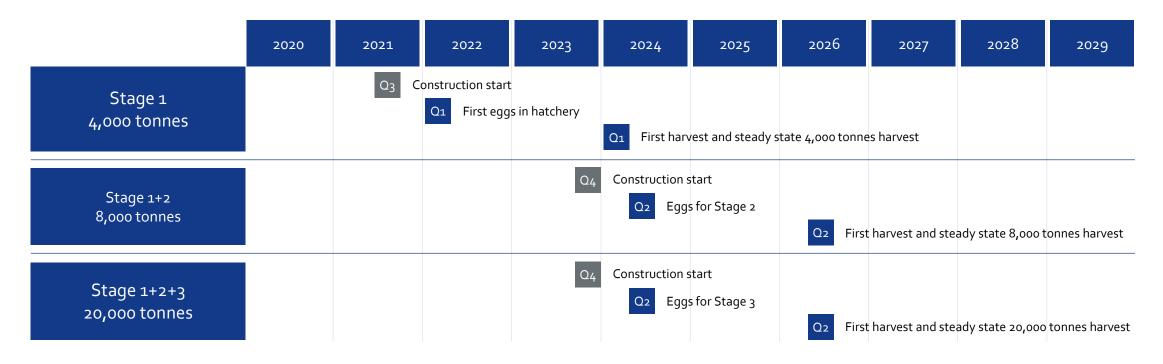
 Incidents of fish mortality in RAS facilities mostly occur with high saline water





# Timeline of Gaotang buildout

#### TIMELINE IN GAOTANG BUILDOUT

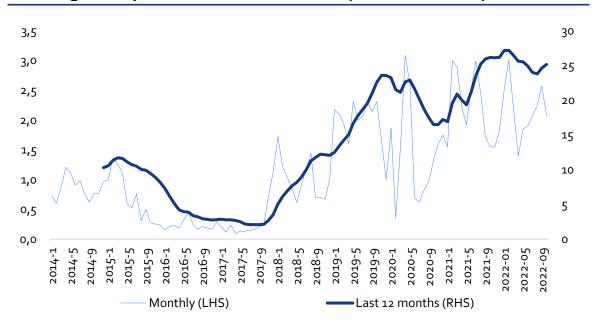






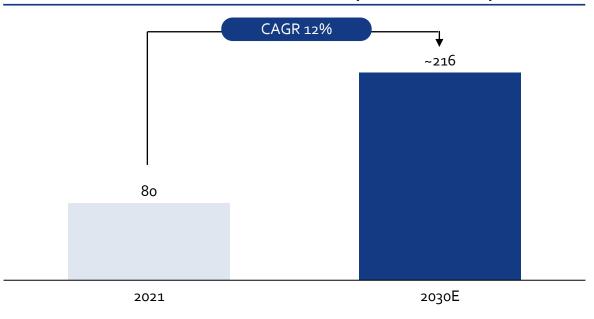
# **Growing demand for Atlantic Salmon in China**

#### Norwegian export of salmon to China (k tonnes, HOG)



- Export from Norway exceeds pre-pandemic levels, despite current lock-downs
  - Recent outbreak of Covid 19, in combination with logistic challenges due to the war in Ukraine, has temporary halted the market growth
  - On-line and home delivery of fresh seafood, including Atlantic salmon, continues to grow

#### Total Atlantic salmon demand in China (k tonnes, HOG)



 Kontali expect consumption of Atlantic Salmon to grow with a CAGR of 12% between 2021 and 2030, a total growth of 180%



# Atlantic salmon in China is priced substantially above Oslo

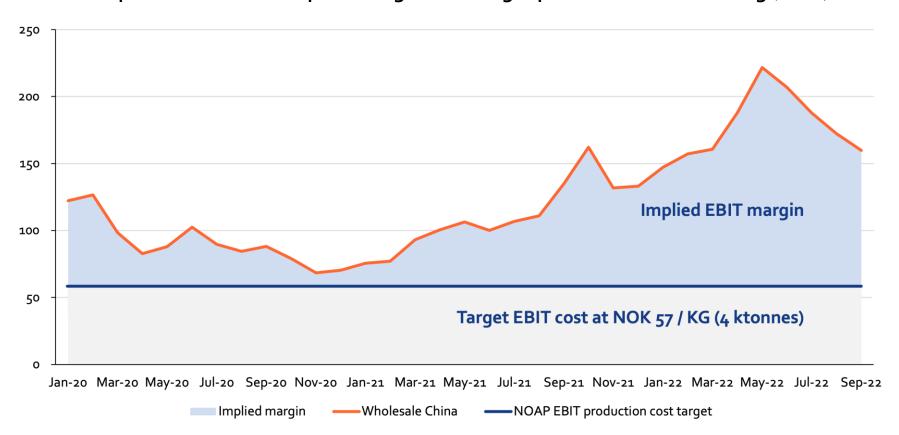
### Development in Atlantic salmon price references from FOB Oslo to wholesale in China





# Target production cost and local prices result in robust margins

### Wholesale price in China and implied margin from target production cost NOK / kg (HOG)



Expect to see attractive margin in 2024, first year on full harvest capacity

 Average wholesale price in 2022 has been NOK 178/kg, implying average NOAP margin of NOK 121/kg





# Budget Stage 1 mainly unchanged since IPO

Lease

Stage 1 and 2



Terms fixed for Stage 1 and 2 (8,000 t)

RAS technology from Akva Group

Stage 1



Turn-key contract at fixed price

**Production cost** 



Elevated feed prices (+40%\* since IPO) has resulted in revised budget.



### Minor adjustments to Stage 2 & 3 due to inflation

Lease

Stage 1 and 2



Terms fixed for Stage 1 and 2 (8,000 t)

Stage 3



Ongoing negotiations

RAS technology from Akva Group

Stage 1



Turn-key contract at fixed price

**Next stages** 



Cost inflation impact capex assumptions, in dialogue with suppliers.

Inflation effects somewhat offset by optimization, standardization and local sourcing.

**Production cost** 

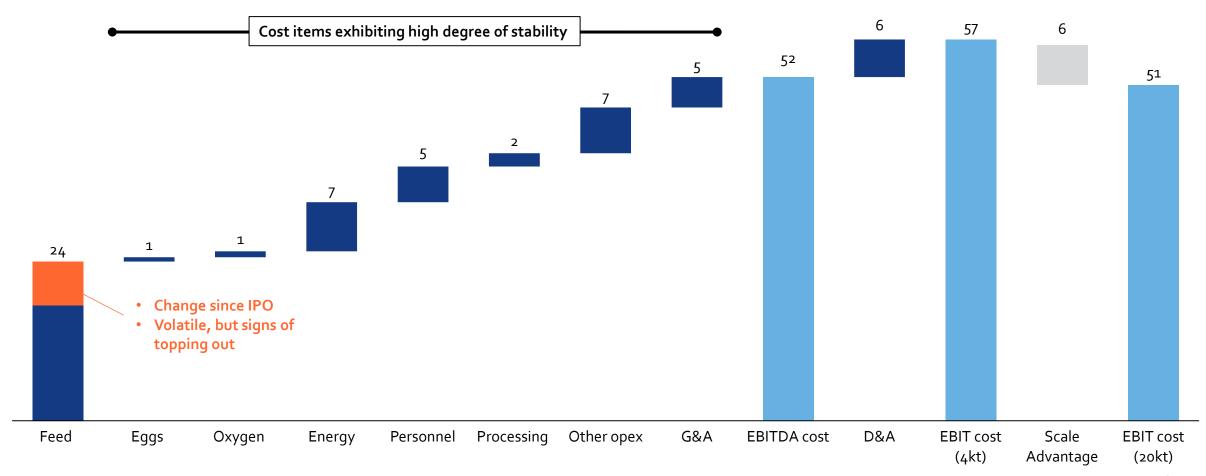


Elevated feed prices (+40% since IPO) has resulted in revised budget.



# Robust production cost profile with reductions driven by scale

Target production cost breakdown for stage 4,000 tonnes case (NOK/kg, HOG)





# **Attractive project economics**

	Stage 1	Stage 1+2	Stage 1+2+3 (flexibility)
Annual volume tonnes (HOG)	4,000	8,000	20,000
RAS Capex** / kg (HOG)	125 NOK	134 NOK*	140 NOK*
Lease financed capex*** / kg (HOG)	45 NOK	43 NOK*	41 NOK*
WC / kg (HOG)	27 NOK	28 NOK	25 NOK
EBITDA cost**** / kg (HOG)	52 NOK	49 NOK	44 NOK
EBIT cost / kg**** (HOG)	57 NOK	58 NOK	51 NOK

High local Atlantic salmon prices combined with competitive investment and cost level

\*\*\*\* Assumed feed cos of 24 NOK / kg. HOG, compared with current price of 28 NOK / kg. HOG. Two yeas average of 21 NOK / kg. HOG



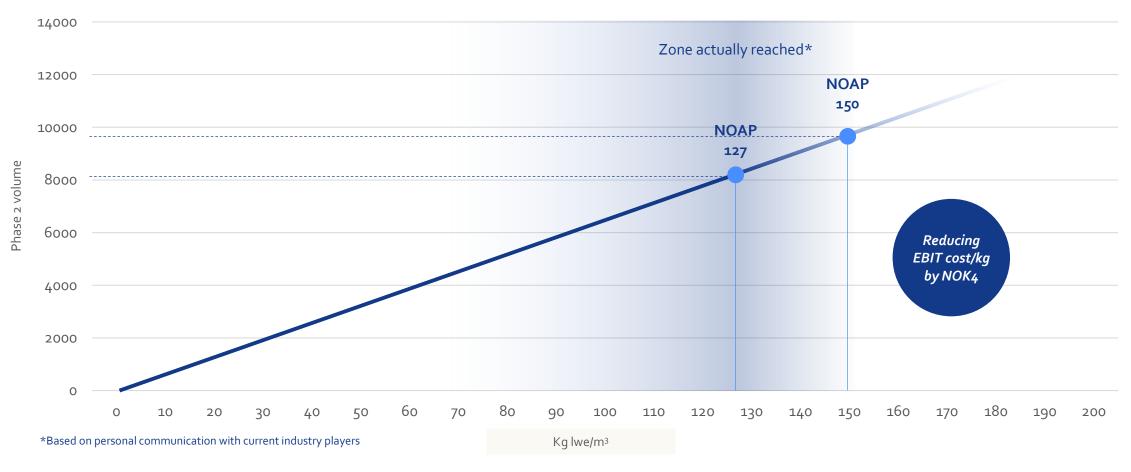
<sup>\*</sup> Estimates due to ongoing negotiations

<sup>\*\*</sup> Capex relates to processing equipment, building is leased

<sup>\*\*\*</sup> Estimated capex financed under lease with local government

# **Assumed production capacity**

Stage 2 production volume for different kg (lwe) / m<sup>3</sup>



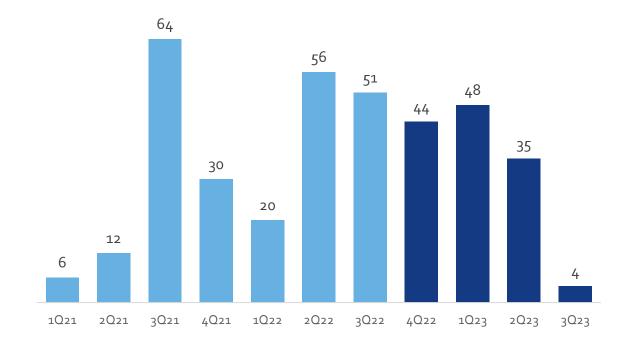




# **Project Financials**

- Capex of 51 MDKK in Q3 2022
- Remaining capex of 131 MDKK
- Capex remains on budget

### Capex plan Gaotang Island stage 1 / Total 370 MDKK





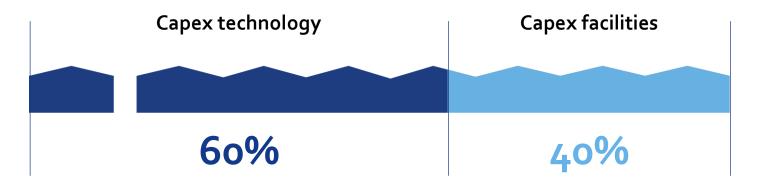
### Attractive lease with local government

#### Lease agreement

The leased facility corresponds to a capex/kg
 of NOK 40-45

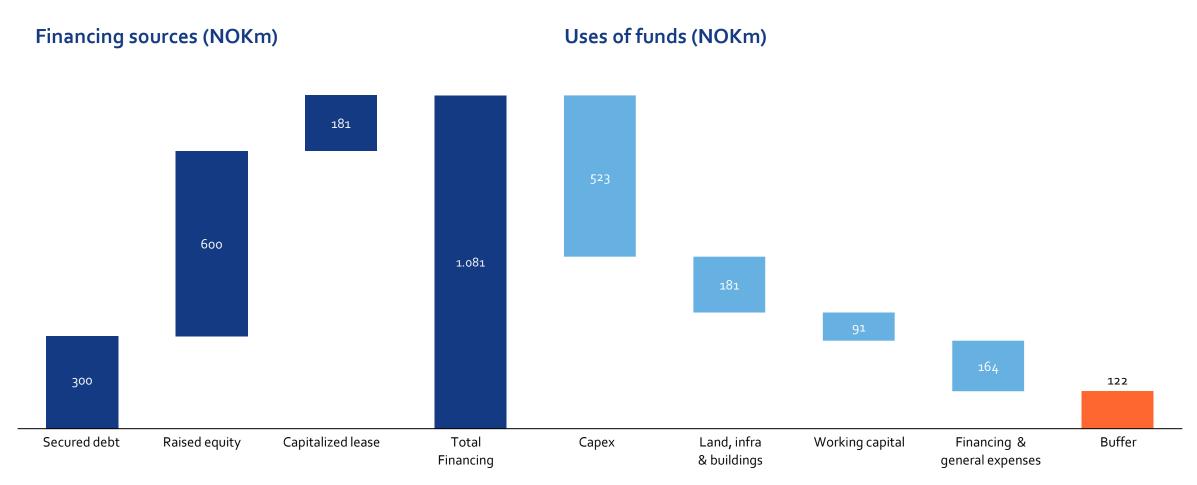
 Adding capex for RAS equipment of NOK 125/kg, total capex would be NOK 165/kg

Annual lease of 18 MNOK



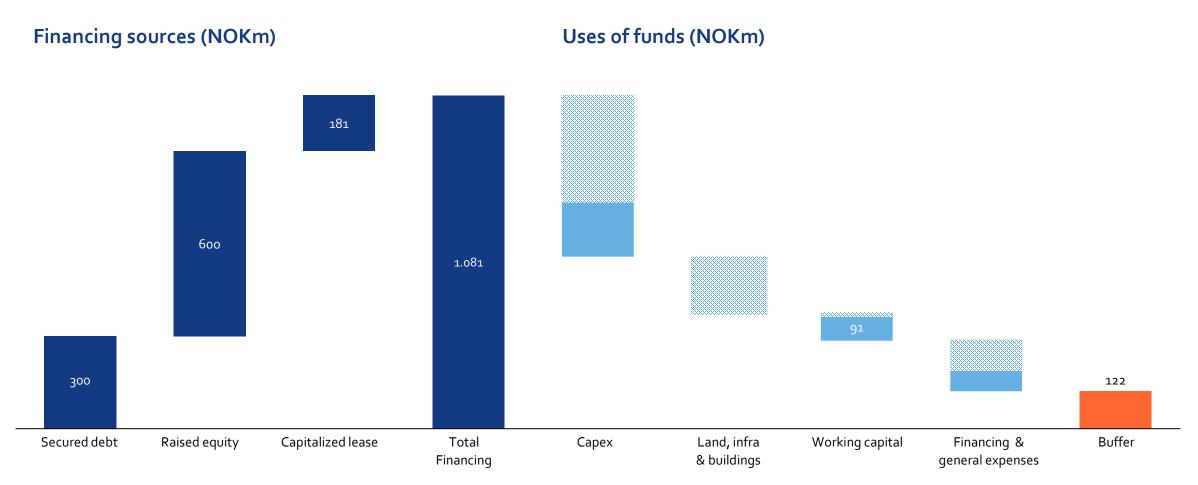


# Funded with significant buffer 4,000 tonnes under construction





# Funded with significant buffer 4,000 tonnes under construction





### **Profit & Loss**

(figures in DKK 1000)
Other operating income
Personnel expenses
Other operating expenses
EBITDA
Depreciations
Operating profit (EBIT)
Financial income
Exchange rate deviations
Financial expenses
Net financials
Profit/loss before tax
Income tax expense
Profit/loss for the period

Q3 2022	YTD 2022	Q3 2021	YTD 2021
0	175	0	0
-6.299	-13.462	-2.302	-5.927
-2.327	-6.786	-2.289	-6.163
-8.626	-20.073	-4.591	-12.090
-126	-358	-55	-83
-8.752	-20.431	-4.646	-12.173
279	1.736	18	20
506	3.599	0	0
-1.706	-4.401	-2.224	-7.983
-921	934	-2.206	-7.963
-9.673	-19.497	-6.852	-20.135
0	0	0	0
-9.673	-19.497	-6.852	-20.135

- Financial performance according to plan and budget
- Personnel expenses driven by increasing production.
- Financial expenses are negative interest on cash, commitment fee on the 25 MEUR loan.



### **Cash Flow**

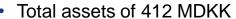
(figures in DKK 1000)	Q3 2022	YTD 2022	Q3 2021 YTD 2021
Cash flow from operations			
Operating profit/loss	-8.752	-20.431	-4.646
Adjustments for:			
Depreciation	126	358	55
Changes in working capital:			
Change in other current receivables	-551	4.939	-1.377
Change in trade payables	10.500	14.537	36.535
Cash generated from operations	1.324	-596	30.567
Interest paid	-1.706	-4.401	-2.224
Interest received	279	1.736	18
Net cash flow from operations	-103	-3.261	28.361
Cash flow from investment activities			
Payments for fixed assets and other capitalizations	-51.228	-128.769	-63.498
Net cash flow from investment activities	-51.228	-128.769	-63.498
Cash flow from financing activities			
Proceeds from new borrowings	0	0	0
Net cash flow from financing activities	O	0	0
Net change in cash and cash equivalents	-51.331	-132.030	-35. <del>1</del> 37
Foreign exchange differences	2.463	-23.895	3.849
Cash and cash equivalents at the beginning of the period	204.550	277.345	374.480
Cash and cash equivalents at the end of the period	155.682	121.420	343.192

- Cash flow according to plan and budget
- Payment for fixed assets 51
   MDKK in Q3 2022
- First utilization of loan expected in Q4 2022
- Net change in cash in Q2 2022 -51 MDKK
- Available liquidity of 379 MDKK as of 30.09.2022. Cash 156 MDKK, working capital 37 MDKK and loan 186 MDKK



### **Financial Position**

(figures in DKK 1000) Assets	Q3 2022	Q3 2021	<ul> <li>Total assets of 412 MDI</li> </ul>
Assets under construction	238.282	29.117	
Property, plant & equipment Deposits	2.918 10.720	74.644 9.935	<ul> <li>Cash 156 MDKK</li> </ul>
Total non-current assets	251.920	<b>113.696</b>	
Biolagical assets (Biomass) Other current receivables	3.870 962	0 3.624	<ul> <li>Biomass of 3.8 MDKK a increasing, equivalent to</li> </ul>
Receivables Cash and cash equivalents	11 155.682	0 343.192	moreasing, equivalent s
Total current assets Total assets	160.524 412.444	346.8 <b>1</b> 7 460.5 <b>1</b> 3	<ul> <li>Equity to reach Phase 2 production of 8.000 toni</li> </ul>
	4+2.444	400.513	production of ologo term
Equity and liabilities Total equity	385.470	400.072	
Provisions	2.240	0	
Trade payables	21.224	58.669	
Other current liabilities	3.509	1.772	
Total current liabilities	26.974	60.441	
Total liabilities	26.974	60.441	
Total equity and liabilities	412.444	460.513	



- and to ~4 tonnes
- 2, annual nnes HG





### **ESG**

#### **ESG** performance will monitored by:

• Audit Scopes 1, 2 and 3

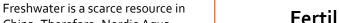






### Renewable energy

The 39,000 m<sup>2</sup> facility roof will be covered with solar panels producing 20-25% of the required energy. Gaotang Island is a net exporter of renewable energy with a 400 GWh solar and wind power plant in the immediate vicinity of the facility.



China. Therefore, Nordic Aqua will produce all freshwater from the adjacent sea rather than compete with neighbours for the restricted availability

**Freshwater** 



The effluent from the farm is carefully treated for all organic particles before the cleaned water is led back into the ocean. The collected waste will be fertilizing local agriculture farms.



### No Air transports

Nordic Aqua is a local producer of Atlantic salmon, hence no air-transport with high carbon footprint is required to reach the market.





### Neighbours and local government

Local government and neighbours are fully supporting Nordic Agua. Efforts are made to contribute to the local community, including creating meaningful and safe jobs in an area with declining fisheries.































### **Outlook and Summary**

- Project on time and on budget
- Installation of RAS equipment and fish transfers moving ahead according to plan
- Good biological performance with high growth rates and low mortality rates
- Continue to build and strengthen organisation
- Salmon prices in China combined with competitive investment and cost level continue to support business opportunity
- Investigating aspects of accelerated expansion plan to reach a capacity of 20,000 tons by 2026





