

## **Market Update**

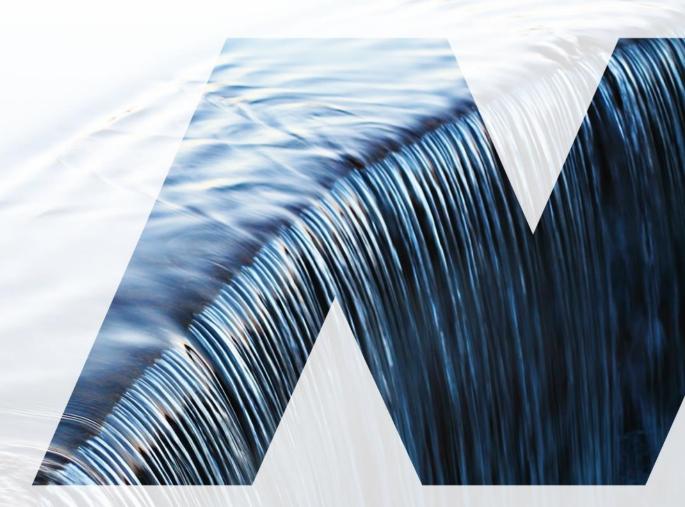
#### 16 January 2024

Stein Giljarhus, CEO

Atle Mundheim, CTO and Board member

Sigve Lothe, Technical Manager

Morten Hilton Thomassen, CFO



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#### Water treatment is a megatrend

- Urgent need for more clean and usable water
- By 2025, two-thirds of the world's population will face severe water shortages.
- Ecosystems around the world increasingly suffer due to wastewater related pollution.
- Nations and industries faces large investments as tightening regulations are introduced to stagnate or repair this development

 M Vest Water address these topics and supports the UN sustainability goals



#### Why invest in M Vest Water?

- ECO friendly solutions supported by macro trends
- High performance, disruptive technology
- Patented in selected markets
- Huge and growing markets
- Attractive business modell
  - Asset light, scalable with low CAPEX
  - Long term delivery contracts (supply of chemicals)

















#### Highlights

- Commercial sales Aquaculture:
  - Process equipment contracted to 4 slaughterhouses
  - Key market players choose MVW technology
- Successful qualifications of MVW solutions for municipal wastewater in Germany
- Oil & Gas
  - NORWAPOL® technology qualified by major international operator in the US market
  - Long term contract for major slop water treatment plant in Norway - SAR Gruppen
- Shareholder loan facility



M Vest Water offers full suite of treatment chemicals and equipment

















#### Agenda

MVEST WATER

- The technology
- Key Markets
- Financial update
- Summary and priorities going forward
- Q&A







# Our products



#### NORWAFLOC®:

- Combined flocculant and coagulant, formulated into one product.
- Based on natural and biodegradable products, no harm to nature.
- Substitute for synthetic chemicals, widely used.



#### NORWAPOL®:

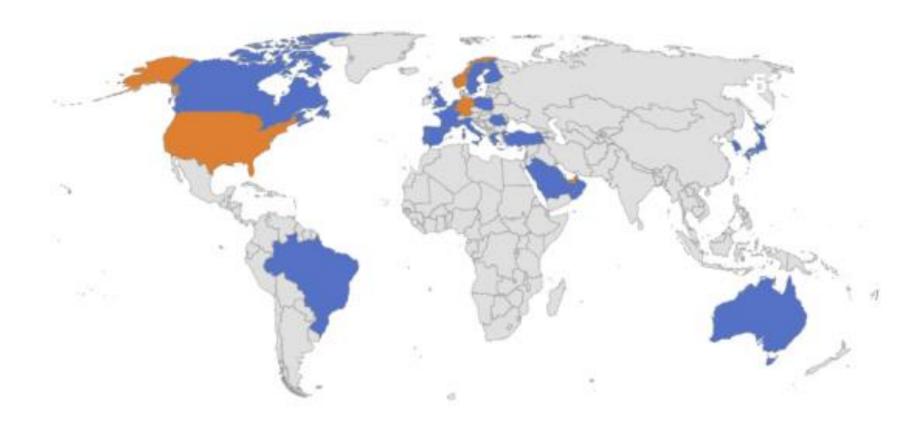
- Novel filtration process combined with NORWAFLOC®.
- Disruptive substitute to walnut shell filters.
- Removes particles, oil droplets and numerous other contaminants towards nondetectible levels.





#### Patents in Global Markets





- MVW`s patents portfolio is represented by the areas marked in orange and blue on the map.
- Our present focus areas and where active projects are ongoing is marked in orange on the map.
- Our disruptive and unique technology are now secured by 5 patents which have obtained 47 grants in 24 countries.

#### Green NORWAFLOC® - products

- Combined flocculant and coagulant, formulated into one product as a fluid or powder
- Based on natural and bio-degradable products,
   no harm to nature

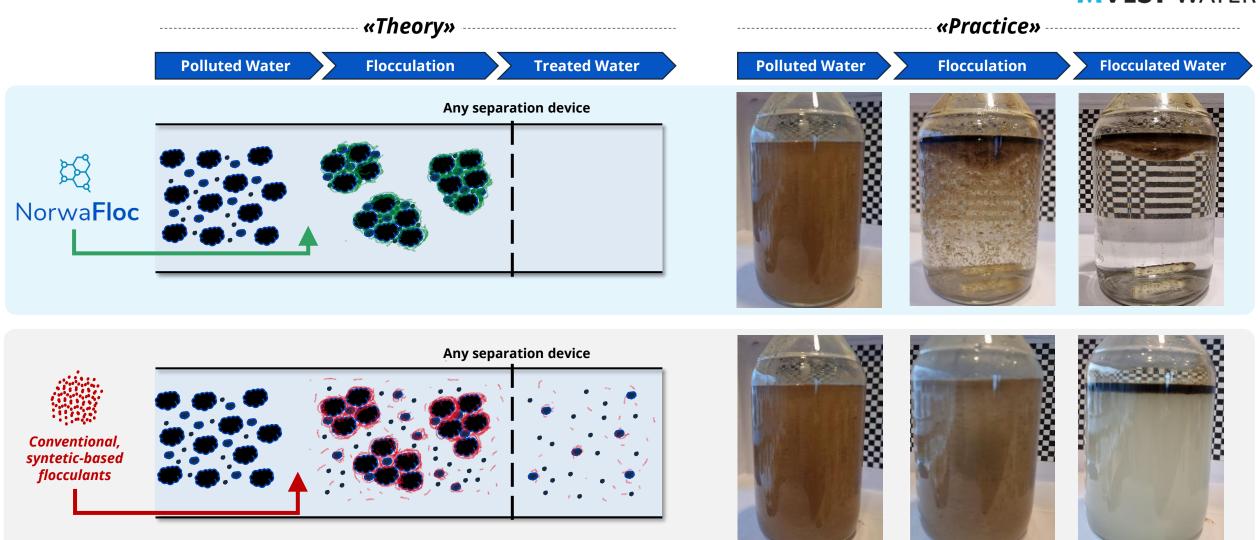
- Substitute for synthetic chemicals, widely used today
- Capture pollutants in wastewater and bring the pollution into big easy separable conglomerates





#### MVW technology - Illustration – removal of oil from highly oil contaminated water





#### Polishing reactor NORWAPOL®

- Polishing process
- Combined with NORWAFLOC® it removes pollutions down to molecular size
- High performance filter media with guaranteed 10-year lifetime
- Filtermedia can be reused / recirculated –sustainable,
   green circular economy











## Global markets with strong outlook in key segments



Global demand



Large-size



Accelerating growth



Tightening regulations





Aquaculture



Oil & Gas - produced water



# Aquaculture

#### Business segments

- Landbased fish farming
- Salmon slaughterhouses
- Launched solution for treatment of bloodwater and sludge for salmon slaughterhouses
- Opportunities:
  - Slaughterhouses for pelagic fish

#### Market and Drivers

#### Aquaculture – salmon slaughterhouses

#### The market

45 salmon slaughterhouses in Norway

**Expected equipment investments:** 

- NOK 2-300 million

**Chemical treatment** 

- estimate yearly consumption:

NOK 100 million (recurring revenues)



#### Market & Drivers

# Aquaculture – salmon slaughterhouses Tightening regulations

- The salmon slaughterhouses in Norway faces new and strict discharge regulations from Dec 2023, with a one-year deadline for implementation of solution for water treatment and sludge management.
- This requires chemical treatment and separation of sludge that has until now been discharged to the sea.
- The industry faces enormous challenges in meeting the requirements and, not least, handling the substantially increase in waste material separated from the water.



#### MVW positioned as frontrunner

# Aquaculture – salmon slaughterhouses Complete solution for treatment of water and sludge

 Corporation agreement Downstream Marine secures access to 70% of the Norwegian market

 Alliance agreement with Bioretur AS for delivery of solution for sludge management

- Cost efficient solution:
  - OPEX down to 10 øre pr. kilo slaughtered salmon





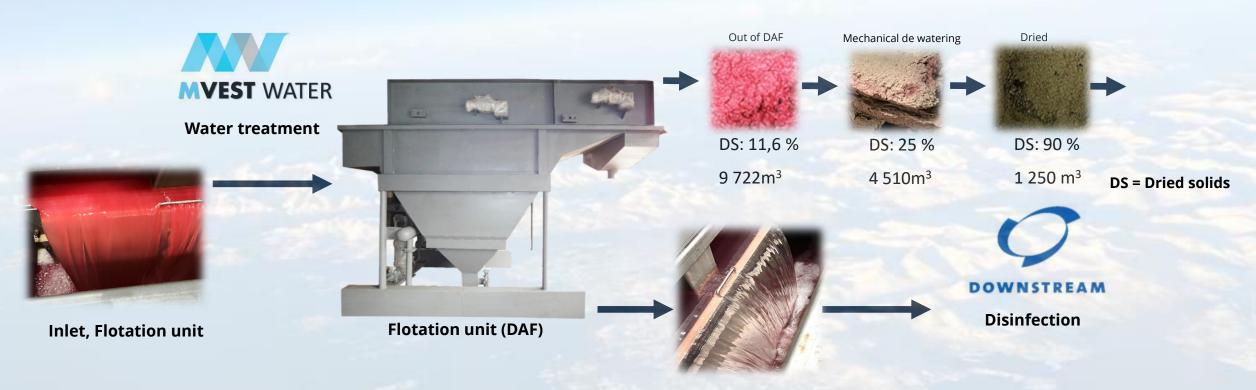
#### Total solution for salmon slaughterhouse industry



#### Overview water treatment and sludge management



Illustration: processing 500,000m3 of water and producing 100,000 tons of fish per year



Etimated cost NOK 0,10 - 0,12 pr. kilogram slaughtered salmon





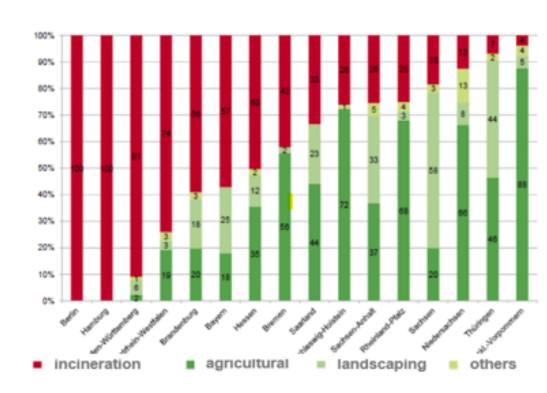
#### Key developments in 2023

- Developed 2 new methods for Municipal Wastewater Germany
- The methods has been successfully full scale qualified at 2 large plants. At present in process of full-scale qualification at another 4 plants.
- Cooperation with major distributors in Germany holding contracts with a large number of Municipalities

#### The German market for Municipal wastewater



- 9,600 municipal sewage plants in Germany produce 1.72 million tons of dry sludge per year
- The 300 largest from about 100,000 capita and above account for 80% of sewage sludge production
- Annually, 16,000 tons of synthetic polymers are consumed for dewatering sewage sludge to be incinerated
- Annually, 34,000 tons of lime (Calcium) and 26,000 tons of ferric chloride are used for sewage sludge to be used as agricultural fertilizer
- Market size based at total chemical consumption is in excess of 750 MNOK in annual recurring revenues
- Disposal cost incineration about 2000 NOK/t and for agricultural 900 NOK/t

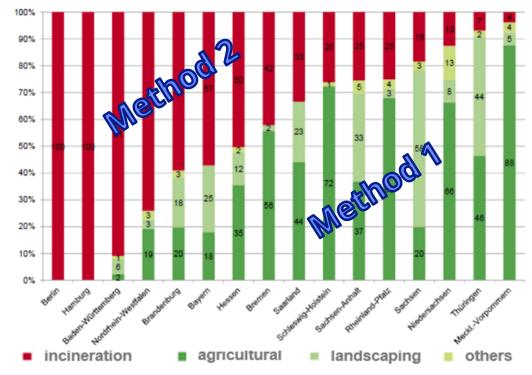






#### We are now qualifying at 6 large plants in Germany:

•	Osnabrück	(1	300 000 PE	Method 1
•	Schleiz	2	50 000 PE	Method 1
•	Municipal	3	100 000 PE	Method 2
•	Municipal	4	550 000 PE	Method 2
•	Municipal	5	265 000 PE	Method 2
•	Municipal	6	265 000 PE	Method 2



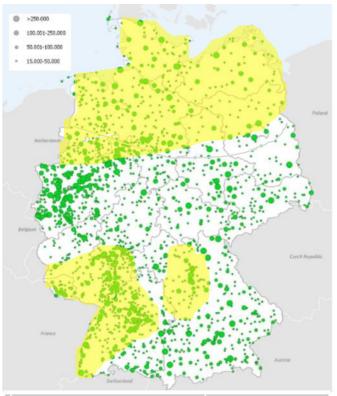






#### Municipal wastewater Germany – MVW positioned





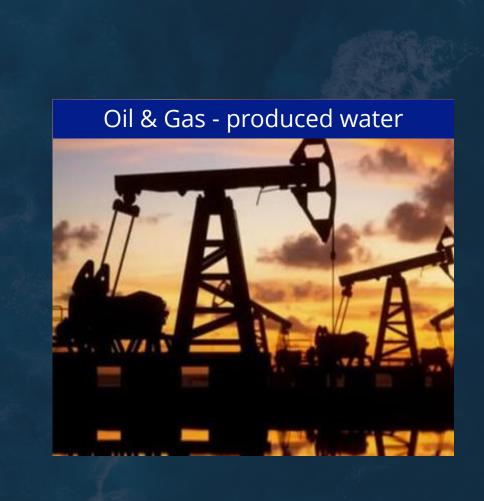
Størrelse PE	Antall	
> 100 000	256	
50 000 - 100 000	315	
10 000 - 50 000	1,657	
5 000 - 10 000	864	
1 000 - 5 000	2,387	
< 1 000	4,153	

#### How to scale-up business?

- Upon completion of full-scale verification and first contracts awarded, focus the 300 largest Municipal wastewater plants that produce 80% of sludge amounts in Germany.
- Distribution Agreement with Leading Distributors in North and South-West Germany now in process to be finalized
- Sign Agreements with identified independent distributors in each "county" in the rest of Germany.
- Formalize Agreement for large-scale outsourced production and logistics for Norwafloc® in Germany
- Use established channels for stable raw material supply for NORWAFLOC®
- Logistics is to be conducted through Distributors and Raw Material Producer including warehouse, inventory and production.

#### Oil & Gas Markets







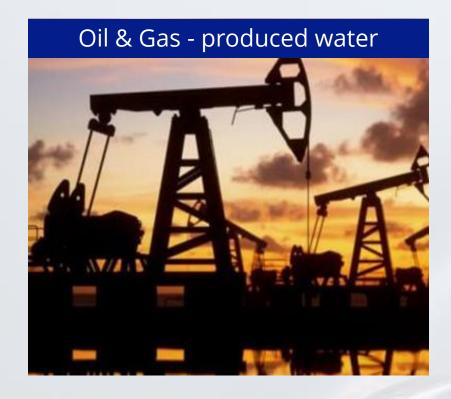


#### Development 2023



- Q1 Successfull full-scale qualification completed at SAR
   Mongstad
- Q2 5-year frame-agreement awarded by SAR AS

MVW are now duplicating the success at SAR in Norway,
 and towards facilities in Europe .



#### Development - timeline



- Supply of NORWAFLOC® to Sture Terminal since 2018.
- Q3 2022: NORWAPOL® proof of technology field proven at Sture Terminal, Norway.
- Q3 2023: Completed a 12-months qualification within 6 different re-use applications on a large onshore US oilfield with one of the major operators.
- Q4 2023: The Operator company's technical committee qualified NORWAPOL® - technology.
- Awaiting decision to proceed with final large-scale qualification project.

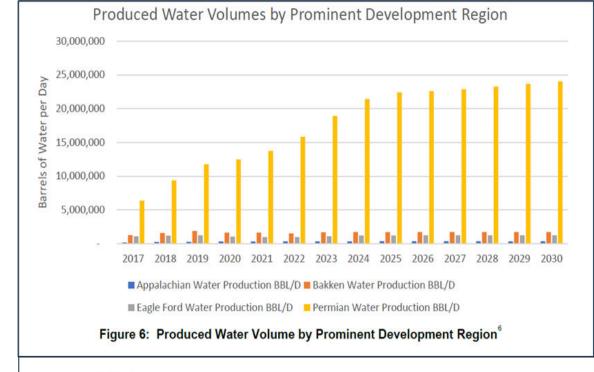
#### Market

#### Oil & Gas USA – produced water

Market size produced water North America

## 2,3 BUSD per year

Strong driver for change – water has become a scarce resource limiting the oil production



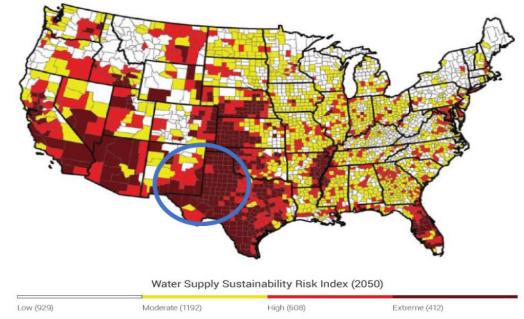


Figure 3: Projected Water Stress in the U.S. by Year 2050<sup>3</sup>

#### Next steps after our qualification at a large oil field

#### Oil & Gas USA – produced water

- Install MVW's technology in <u>large scale pilot</u>, followed by operation within first half of 2024
- Qualification project: People , equipment and chemicals treating 75 m3/h of Produced Water
- Operating phase:

   Replace 6 existing walnut shell filters with

   NORWAPOL® and NORWAFLOC®
- ESTIMATED VALUE:
  - NORWAPOL filter media: MNOK 5

NORWAFLOC®: MNOK 10 recurring rev.



#### Entrance to Oil & Gas produced water market in US

- Finalize Cooperation Agreement with reputable US service contractor and supplier
- This business partner's services and products complement MVW perfectly.
- Bypasses time-consuming qualification processes required to be a supplier to the operating companies
- Less investment and less resources needed from MVW to enter the world's largest oil market. Great cost savings for MVW.
- Utilize the disruptive results obtained in our qualification



#### Business development / commercialization - timeline



				MVEST
AQUACULTURE	<ul><li>Technology development</li><li>LAB and pilot qualification</li></ul>	<ul><li>Full-scale qualification</li><li>Contract awards</li><li>Business partnerships</li></ul>	<ul> <li>Scale up - sales of equipment of products</li> </ul>	Further opportunities for longer terms contracts
OIL & GAS	<ul><li>Technology development</li><li>First orders slopwater</li></ul>	<ul> <li>Longterm contract slopwater</li> <li>12 months testing in US completed</li> <li>Technology approval produced water in US</li> </ul>	<ul> <li>Longterm contracts slopwater</li> <li>Longterm contracts produced water</li> <li>Business partnerships</li> </ul>	<ul><li>Scale up</li><li>Expansion in US</li><li>Expansion in ME</li></ul>
MUNICIPAL WASTEWATER	<ul><li>Technology development</li><li>LAB and pilot qualification</li></ul>	Full-scale qualification	<ul> <li>Distribution agreements</li> <li>Logistics and manufactoring agreements</li> <li>Contracts and scale up</li> </ul>	<ul> <li>Scale up</li> <li>Geographical         expansion in         Germany</li> <li>Geographical         expansion Europe</li> </ul>
DREDGING	<ul><li>Technology development</li><li>Full-scala qualification</li></ul>	<ul> <li>Technology development</li> <li>Full-scale qualification postponed</li> </ul>	<ul><li>Full-scale qualification</li><li>Contracts and scale up</li></ul>	
	2022	2023	2024	2025

2022 2023 2024 2025



### Financial update

DNB

Supply chain financing

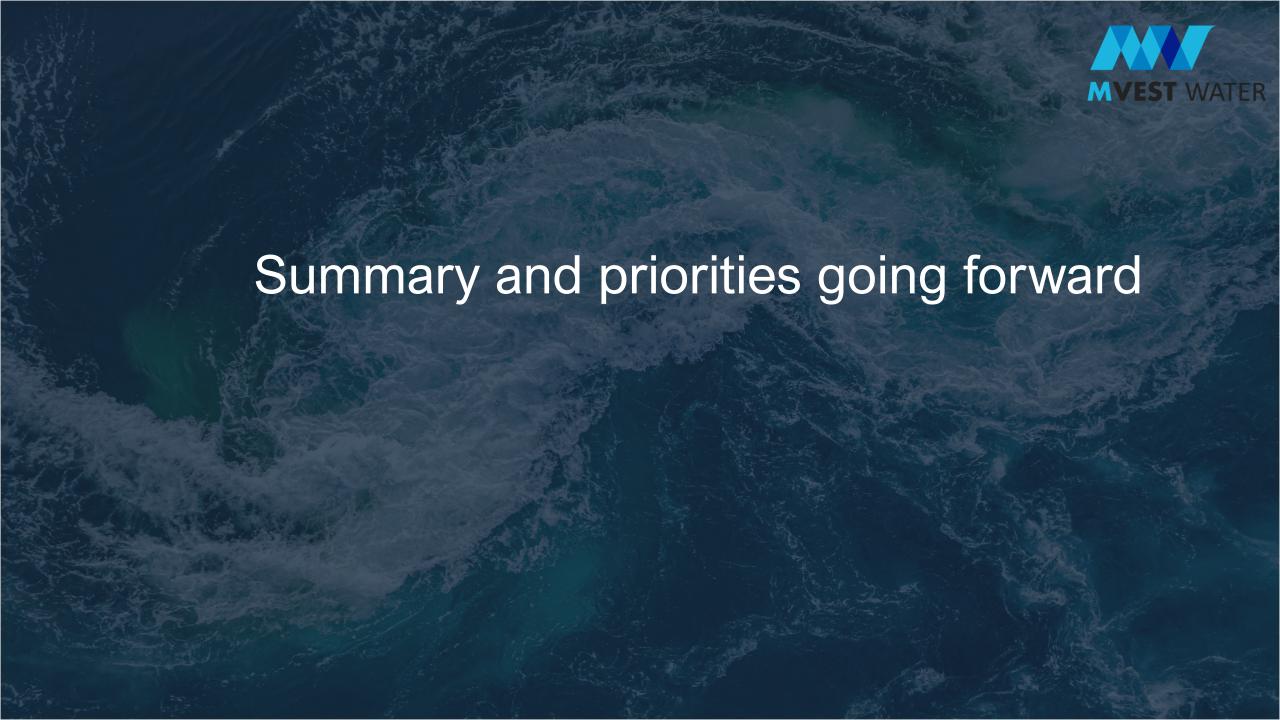


Loan facility from key shareholders

#### Key elements

- Increase in turnover 2022-2023
  - From # 2 to 15 clients
  - From NOK 2 to 10 million (Q3) in revenues
  - Positive development in Q4

- Attractive business modell
  - Asset light, low CAPEX
  - Scalable, long term delivery contracts (supply of chemicals)



#### Summary

- Our products and solutions are commercially ready to be launched to large global markets
- We have disruptive technology in O&G and for municipal sludge dewatering
- We have BAT (Best Available Technology) for salmon slaughterhouses
- Patents are globally granted
- Our technology is now proven, and M Vest Water's focus in 2024 is scale up and commercialization



Global water treatment market expected to exceed \$240bn by 2027



Imminent regulatory change in Europe will force changes to wastewater treatment



Huge/increasing market



Tightening Regulations

#### Key priorities going forward

- Fully take M Vest Water into commercialization in 2024 in all our focused markets
  - Aquaculture
    - Accelerate sales in Norway
  - Municipal wastewater
    - Formalize distribution and production agreements in Germany
    - Secure supply agreements
  - Oil & Gas produced water
     Formalize cooperation agreement with partner in US.
     Expand the sales of NORWAPOL® and NORWAFLOC® in the US and ME market
  - Oil & Gas slopwater
    - Duplicate the model of our Frame Agreement with SAR to other players in the Norwegian and European market



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