

Innovating for successful CAS production

BEAF 2024, Abu Dhabi, Sissel Susort, Global marketing manager, CAS



We are pioneers!



Established 1899





We are innovators!





Conflicting interest in the coastal zone







Why RAS? (Recirculating Aquaculture Systems)

Feeding a growing population Stagnated growth in traditional (salmon) farming

Saving freight → cost competitive + CO2 reduction

Can be done "anywhere"



- 2 How does CAS production change the focus for a feed supplier?
- 3 CAS growth will increase the need for sustainable ingredients



Statistics .

Global projects build global experience





The five biggest challenges of RAS production

2021 (n=46, 20 in production)

Early maturation Water temperature/water ozonation Technical stability of the RAS equipment System management

Scaling of biofilters

The five biggest challenges of RAS production (fishfarmingexpert.com) 15. April 2021



<u>Fem store risikoer i landbasert oppdrett (landbasedaq.no)</u> LandbasedAQ nr 4, 2023 - risiko i landbasert oppdrett



Sustainable aquaculture criteria for success

Technology Capital Regulatory framework Management Market KNOWHOW

Knowhow/ Experience!



Some lessons learned:

Good capacity for feed addition and gentle feed handling! Do not choose equipment and solutions that destroy the feed!

Provide space around the facility for trucks - both for feed in and fish out

Extended sustainability/quality goals that limit operations can be expensive

Calculate with buffer in the production plan

There will be delays and high densities are not good for fish welfare

Monitor fish quality and welfare and take measures quickly if needed

Think gentle slaughter and fast processing! 3 years of production can easily be destroyed.

It can be tempting to save cost during the construction phase, but bad ones can cause extra cost, bad reputation for a long time and can be very expensive to fix!



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Skretting is a fish feed company..!

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But..





CAS – Value proposition











Logistics



Advice & collaboration



Feeding equipment



Fish quality program



Fish health





Sustainability



Sludge handling

Customer driven best practice implementation

Investor relations



RCX



Click here

Link to the RCX short video (1 min)





A new standard in RAS feed





Importance of quality standards





CAS – Value proposition











Logistics



Advice & collaboration











Fish quality program

Fish health

Investor relations

Sustainability

Sludge handling

Customer driven best practice implementation



Skretting - long experience in Fish quality service – expand to CAS







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- **3** CAS growth will increase the need for sustainable ingredients



See Plates

We need to find more ingredients to support the expected growth





Disclosing absolute volumes of fishmeal

and fish oil

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Increasing the use of by-products

Certified ingredients







Goal 14: Conserve and sustainably use the oceans, seas and marine resources



Dependence on marine ingredients (salmonids)





94% of our carbon footprint comes from the ingredients (Scope 3)







Increasing the use of alternative feed ingredients





Carbon Tunnel Vision









Remove self-imposed restrictions

More R&D to increase flexibility in the diets

Circular economy

Novel ingredients



We are part of the solution!



Sharing of knowledge!

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