

Seaweed Energy Solutions AS

SIG Seaweed 04.04.17

Maren Sæther





VISION

To enable large scale ocean farming of seaweed for food, feed, biochemicals, energy and other valuable products

Company overview

- Company founded in 2009
- Development of innovative technology for large scale offshore seaweed farming
- Patented cultivation concept ("The Seaweed Carrier")
- In-house hatchery
- Pilot farm established 2014 largest seaweed farm in Norway
- Targets the food market (short term goal)





The SES team



Pål Bakken Founder and Director



Jon Funderud, MSc



Frank Neumann, Dipl.-Ing. Cultivation Technology



Kaia Kjølbo Rød, MSc Cultivation Manager



Luiza Neves, MSc Cultivation & Environment



Diogo Raposo, MSc Hatchery & Cultivation



Maren Sæther, MSc Processing & Biotechnology



Located in Mid-Norway

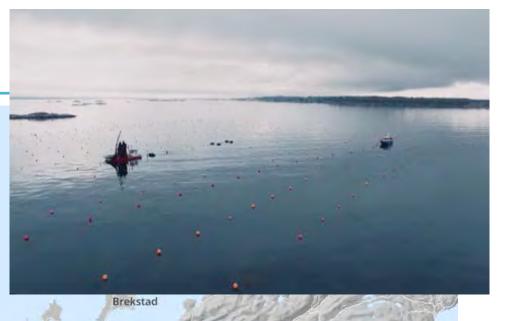
Frøya

- Sea farm
- 65 ha farming concessions

Hitra

 Processing at Hitramat







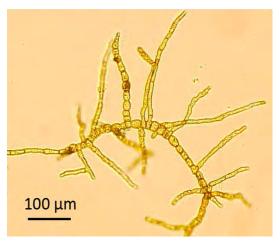


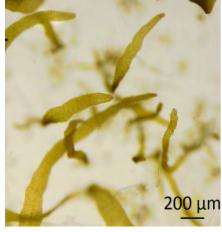
Lab and hatchery



- Lab and pilot scale hatchery in Trondheim
- Development of seeding and hatchery techniques
- Supply of seeded material both for internal use and sales
- Method development for selective breeding











The Pilot farm

2015:

Proof of concept 100 tonnes *Saccharina* **23 200 meter rope**

2016:

Processing; freezing and drying 25 tonnes *Saccharina* and *Alaria* **16 000 meter rope**

2017:

Upscaling **26 600 meter rope** *Saccharina* and *Alaria*

Future: Upscaling...





FOODS PNORWAY

BIOFEED







Student theses



Department of Biology, NTNU

MSc. Elin B. Njåstad (Prof. Yngvar Olsen)

MSc. David Cohen (Prof. Yngvar Olsen)



MSc. Nicoline Korsvold (Prof. Turid Rustad)

BSc. Greta Moen, Marte Dalsnes, Susann Andersen (Ass. prof Marianne Østerlie)

BSc. Pia L. Rostad, Marit M. Amundsen, Siv Maria Nguyen (Ass. prof Marianne Østerlie)

BSc. Kristin Brustad, Sunniva Ø. Opsahl, Torill Hagen (Ass. prof Marianne Østerlie)

Department of Mechanical and Industrial Engineering, NTNU

BSc. Emil Høgli, Brynjar Hykkerud, Martin Aasvestad, Ulrik T. Vermedal (Ass. prof. Bjørn Austbø)

NTNU, Ålesund

BSc. Maria Elvemo

Thank you!





