

SWEDISH FACTORY

Advanced Materials from Algae



Our Mission

Be the world-leading producer of advanced materials from algae and a driving force towards a circular and bio-based industry

WE CULTIVATE DIATOMS, A TYPE OF ALGAE





NANOPOROUS STRUCTURE OF DIATOM SHELLS





THE SHELL ENABLES SURVIVAL



- Traps visible light efficiently
- Blocks harmful UV light, partly by manipulating UV light to visible light
- Absorbs and releases nutrients and water efficiently



SELLING TO SKIN CARE + PARTNERSHIPS IN SOLAR

Skin care and cosmetics



Natural and efficient:

- Moisturizer
- Absorbent
- UV filter



Sales started in autumn 2018. Customers:





+ 20 with ongoing tests + more in pipe

Solar energy



Enhances efficiency with at least:

- 4 % for silicon based solar panels
- 38 % for DSSC (Dye sensitized solar cells)

3 testing partnerships, each needing **200 kg -10 tons/year.** In discussions with **6** more actors.

Ο Ο ΛΝΤΟΙΙ

Research with among others:





Future applications



Long-term opportunities in e.g.

- Lithium ion batteries, 40 % increased capacity of anode
- Biosensors
- UV filter in e.g. plastic films

Commercialization and collaboration with:



Paper published in nature SCIENTIFIC REPORTS

CIRCULAR = SUSTAINABLE & PROFITABLE





IN ACTION ON THE SWEDISH WEST COAST



We clean water from this salmon farm. Our algae can grow in water from many other sources too.

Our algae grows in trays



Patent pending on cultivation process, efficiency enhancement of solar panels and UV absorption

GREAT TEAM WITH 100+ YEARS' EXPERIENCE IN ALGAE RESEARCH, CHEMISTRY & ENGINEERING

Gustav

CEO & Founder: Sofie

Award-winning entrepreneur and biotechnology engineer with an MSc in business development from Chalmers.

Sofie Angela

RnD & Founder: Angela

Award-winning and Nature-published professor at Gothenburg University. 29 years research in algae, climate and UV radiation.

Biz Dev: Harriet & Caroline

Micke

Harriet

Harriet's been 30 years in the chemical industry in sales and product management. Caroline is a tech entrepreneur, Forbes 30u30, Cambridge Uni science grad.

Tech: Gustav Micke Justin & Sanna

Justin

Algae veterans with large scale algae cultivation background, researchers with experience in algae, biology and process engineering. Published Nature paper with Angela.

