

Sofie Allert

Chief Executive Officer, Swedish Algae Factory

Sofie Allert is the co-founder and CEO of Swedish Algae Factory. She has a Bachelor degree in Biotechnology and a Master's degree in Entrepreneurship and Business design from Chalmers University of Technology. The company was founded as a result of her passion for making use of a natural resource that can create a lot of sustainable value for society, algae.

The Swedish Algae Factory has developed a circular economic business model around a group of algae called diatoms. The organic biomass of diatoms is surrounded by a nanoporous glass shell. A shell that is naturally designed to trap light and nutrients efficiently and in different ways protect the algae, to secure its survival deep down in dark oceans. This shell material can e.g. be utilized industrially to enhance the efficiency of solar panels, block UV and as a more sustainable ingredient in cosmetics and skincare. Swedish Algae Factory are operating an algae cultivation facility in Kungshamn, Sweden, where the algae absorbs the nutrients nitrogen and phosphorus in wastewater released from a land based fish farm. The nutrients are trapped in the organic biomass of the algae. This organic biomass is a by-product after extraction of the algae shells and can e.g. be utilized to produce more sustainable feed or as organic fertilizers and energy.