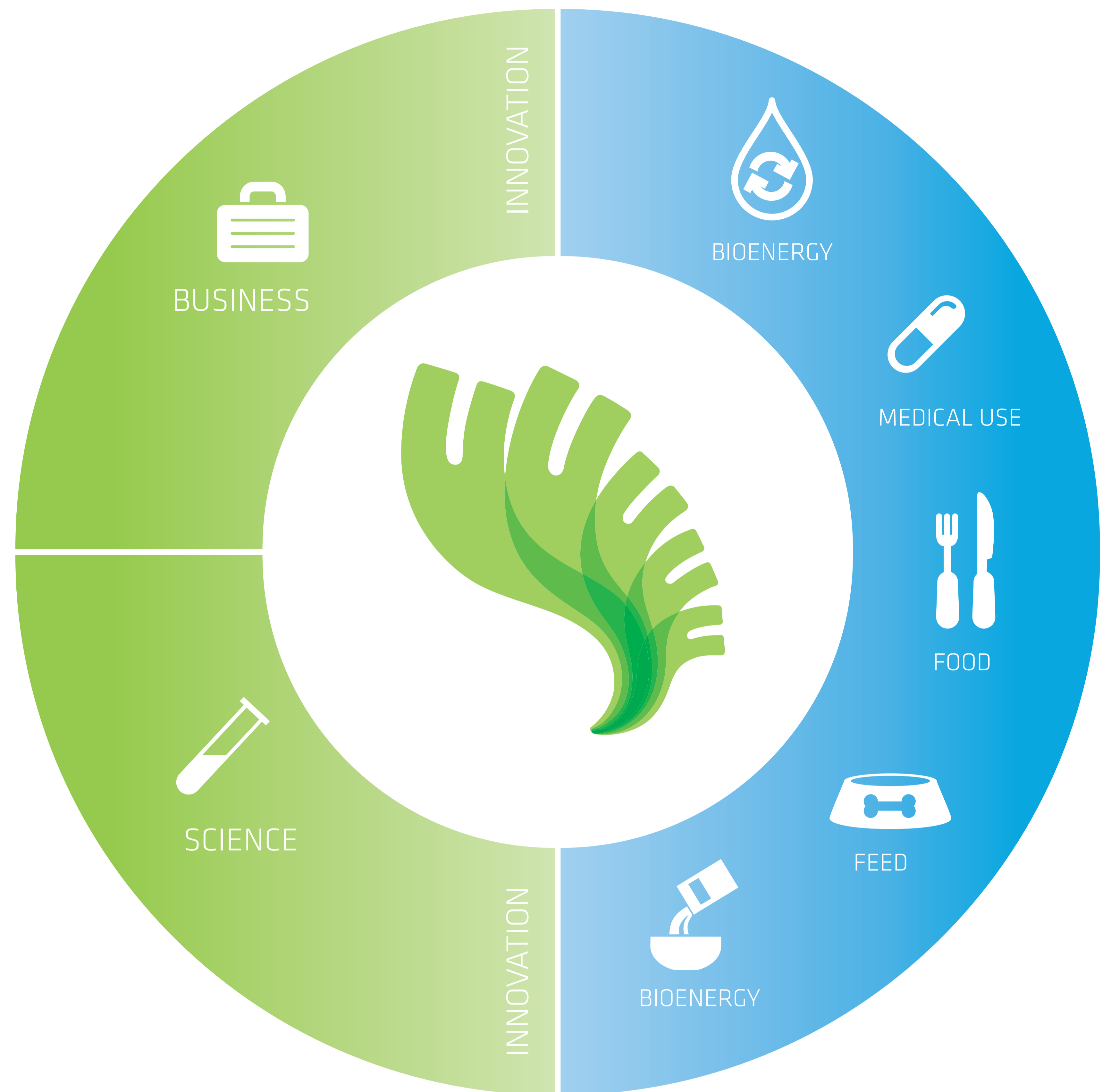


DANISH RESEARCH INTO THE GROWTH AND USE OF ALGAE

In May 2010 the recently established AlgaeCentre Denmark will open a modern algae research facility in the coastal city of Grenaa. The facility will be built right on the waterfront, in close proximity to a large public aquarium and a coming marine research and innovation centre.



→ ALGAE CENTRE DENMARK

In Denmark there is a strong tradition in the fields of biotechnology, marine biology and renewable energy but almost no tradition of using common or native algae species for any purpose. With the establishment of AlgaeCentre Denmark we intend to change this.

Research in the new centre will be focused on the possibilities of using algae for many purposes such as the production of sustainable bioenergy, feed and food, medical uses and as ingredients in the food industry. Furthermore necessary methodologies and technologies for growing, harvesting and using algae biomass for various purposes will be developed.

The aim of AlgaeCentre Denmark is to work closely together with existing and developing businesses in order to find new innovative, sustainable and economically promising uses of algae - and to develop practical, optimized and profitable ways of doing it.

The design of the facility will enable both recirculation and flow through experimental setups to be run. Online monitoring of key parameters and automatic feedback systems will be in place to ensure a practicable, reliable and flexible experimental system.

→ EXPERTISE AT ALGAE CENTRE DENMARK

The founders of AlgaeCentre Denmark are Aarhus University, the Danish Technological Institute, the Kattegatcenter - a large public aquarium, and Ocean Centre Denmark - a coming research and innovation centre.

The research group from Aarhus University is based at the National Environmental Research Institute. The group has a strong expertise in the ecophysiology and biochemistry of macroalgae and their interactions with the environment. Aarhus University has experience in cultivating algae and optimising their growth and composition for food and energy applications.

The Danish Technological Institute is working with algae in a biorefinery concept using algae and other biomass for energy and value-added products. The Danish Technological Institute has specific experience with conditioning of biomass (i.e. drying, size reduction and pelletizing), thermic conversion and quality characterization according to the CEN standards for solid biofuels.

The Kattegatcenter and Ocean Centre Denmark are experts on the communication of marine biology and related topics.

→ RESEARCH FOCUS

Initially the focus of research in the centre will primarily be on the use of common cold water algae species for production of biogas and liquid biofuel. The first research project will investigate and define optimal growth conditions for, and identify uses of, a variety of Danish macroalgae species, develop technology for the application of various waste-products in the growth process, develop methods for harvesting and pre-treatment of algae biomass and develop technology for the production of biogas and liquid biofuel from aquatic biomass.

Partners in this project are Aarhus University, Danish Technological Institute, the energy company DONG Energy and Ocean Centre Denmark.

→ FIND COLLABORATORS IN DENMARK

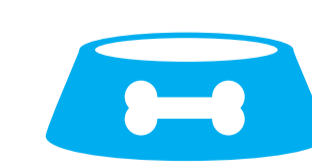
The partners behind AlgaeCentre Denmark and Ocean Centre Denmark wish to facilitate and push forward collaboration between academia and business and between local, national and international businesses and research groups.

The research group behind AlgaeCentre Denmark are looking for partners interested in our research fields and we would like to invite researchers and enterprises to join existing research projects in the facility or initiate new collaborative projects.

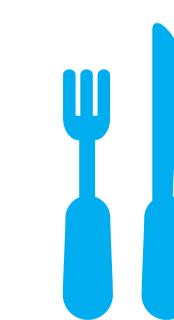
We therefore encourage you to contact us if you are looking for partners in a project concerning the use of algae. We will do our best to help you find partners in Denmark through our large scientific network or among the many Danish businesses operating in fields where innovative uses of algae biomass are promising.



BIOENERGY



FEED



FOOD



MEDICAL



INGREDIENTS (FOOD INDUSTRY)

CONTACT

Please contact the AlgaeCentre Denmark partners for more information or to find collaborators in Denmark:

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