



AQUACOMBINE new circular industry to help salt effected areas.

How to deal with one of the important challenges of the 21st century to meet the world's demand for sustainably produced biomass for both food and the growing bio-products sector? Halophyte plants like Salicornia can be one answer.

Therefore, AQUACOMBINE project will create a new circular industry with co-production of food, pharma, and bioenergy from this new sustainable type of crop with very little or no production of waste streams. The outcomes of this study will enable Salicornia farmers and aquaponics farms to utilize all fractions of the produced biomass and produce value added HCAs, functional fish feed and bioenergy.

This combined aquaculture, farming and bioprocessing can help desalinate salt effected areas – and when combined with sustainable management of natural areas rural jobs will thrive.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 862834. The consortium has over 11 Mio. Euros and 48 Month to tackle the challenge.

[AQUACOMBINE objectives...](#)



AQUACOMBINE video

"A picture is worth a thousand words!"

Certainly, one of the most quoted sayings. AQUACOMBINE video proves that it is true. So, [click](#), watch the video and get a first impression of the AQUACOMBINE project.



Broad expertise to bring this project to success

17 European partners from 7 European countries working together on AQUACOMBINE project. The project coordinated by Aalborg University merges the knowledge of science and business. The project team combines expertise from halophytes cultivation, extraction, fraction and purification, chemical and bioactive analysis, formulation and testing of fish feed, cosmetics and dairy products, biogas and activated char coal production also as techno economic analysis, demonstration plant construction and tests and exploitation and dissemination.

[Read more...](#)

"The kick-off meeting on 29 and 30 October 2019 has already shown me the potential that lies in the collaboration of different experts from different countries. During project lifetime it has turned out that the wide range of expertise will be the key to bring AQUACOMBINE to success. I am happy to be a part of the consortium"



Pilot plant Phase 1 is finished - One step closer to the goal of helping salt-affected areas

As part of the H2020 project AQUA-COMBINE, AAU had built Phase 1 of the demonstration plant for processing of halophyte biomass (e.g., *Salicornia*) into bioactive extracts (for cosmetics and functional foods), pre-biotic protein and carbohydrates, and biogas.

[Read more...](#)

"Seeing Phase 1 of the demonstration plant for processing halophyte biomass is running so smoothly makes me confident that we will make this project a great success" Mette Hedegaard Thomsen, Associate Professor, Department of Energy Technology, Aalborg University



AALBORG UNIVERSITY
DENMARK

Meet the partner!

Aalborg University is the project coordinator therefore AAU will collaborate with all partners through all the work packages. AAU will develop optimised extraction methods for bioactive compounds in lignified biomass and will also identify the chemicals and analyse the bio-activity of halophyte extract fractions and isolate the pure components.

The AAU team consists of 8 people. With their different experience in scientific work has AAU a great base to lead the AQUACOMBINE project and fulfil their different work packages. www.aau.dk



The world of Halophytes

Halophytes (halo=salt + phyte=plant), are plants capable of completing their life cycle under highly saline conditions. Salt plants colonise salt-rich sites in dry to flooded habitats, often near the sea and at salt lakes.

The fresh tips of *Salicornia*, one of the most known halophytes, are a delicacy and can be eaten raw and cooked. And it does not even taste good it is also packed with minerals and vitamins like A, B1, B15, C, and D.

So, it might be time to eat more of this phantastic plant.

Through the AQUACOMBINE post we take pleasure in sharing ongoing progress and contributions to AQUACOMBINE developments, so AQUACOMBINE welcomes anyone interested to

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