











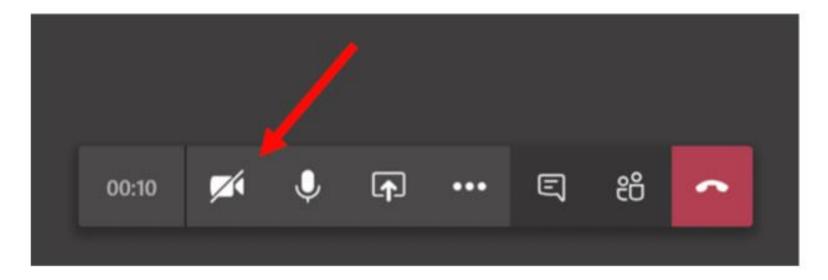


European Climate, Infrastructure and Environment Executive Agency

## Recording

This meeting is being recorded for reporting purposes

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# Agenda

Time	ltem	Lead	
13:00	Welcome & Introductions	s.Pro/EU4Algae: Kim Anderle	
13:05	Introduction to EU4Algae, Meeting Schedule & Communication Platform	s.Pro/EU4Algae: Kim Anderle	
13:10	Getting feed ingredients on the market	FEFAC: Arnaud Bouxin	
13:30		FEFANA: Luca Capodieci	
13:50	Provisions in EU legislation on undesirable substances in feed in relation to the use of algae for feed	DG Sante: Frans Verstraete	
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14:40	Action Plan Validation: Do the tasks fill the gap? What is missing?	s.Pro/EU4Algae: Kim Anderle	
14:55	Any Other Business, Wrap-Up and Next Steps	s.Pro/EU4Algae: Kim Anderle	
END OF MEETING			













# About EU4Algae

**EU4Algae** Forum is the platform that enables **algae interested parties**, from all relavent public and private organisations, **to jointly implement the EU Algae Initiative**, while offering ta forum to openly speak and discuss market driven breakthrough for the sector.

The tender consortium is directly connected to the main European algae initiatives from over 43 countries.

The ultimate objective is to <u>accelerate the</u> <u>scale up of a regenerative, resilient, fair and climate friendly algae industry in Europe.</u>









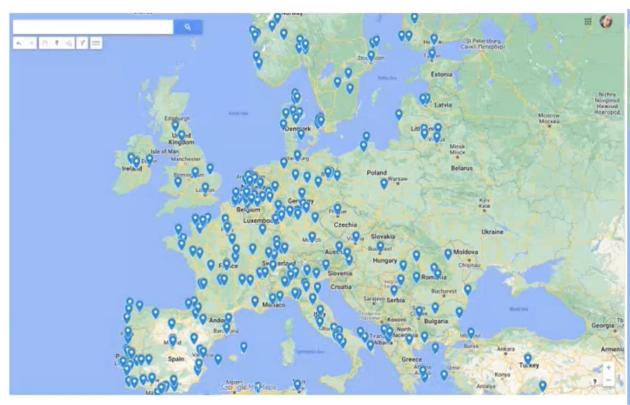






# **EU4Algae Members**

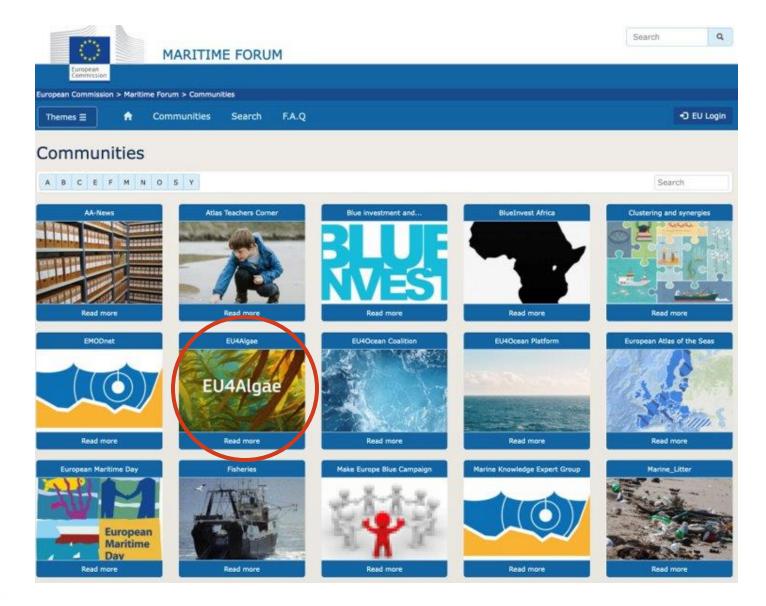
Over 700 members registered and participating in WGs discussions







# Where?









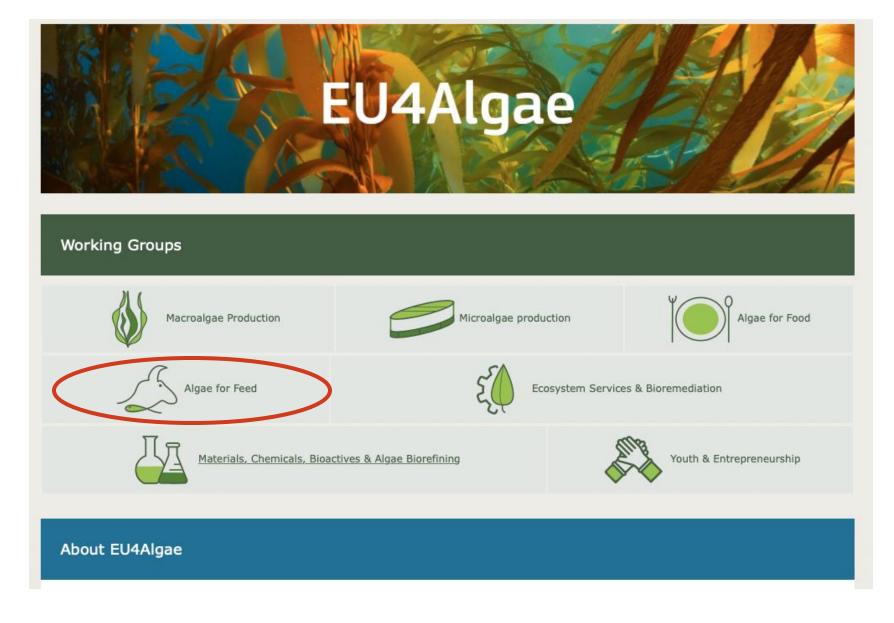
























# **EU Algae Initiative**



## Virginijus Sinkevičius • 1er

European Commissioner for Environment, Oceans and Fisheries at European ...

Pioneering Eu initiative just out!

We present 23 actions to boost the Algae sector in Europe.

Some key actions include:

developing a new algae farmers' toolkit

facilitating access to marine space, identifying optimal sites for seaweed farming and including it in maritime spatial plans

Eu developing standards for algae ingredients and contaminants, as well as for algae biofuel

A examining the algae market and proposing market-stimulating mechanisms to support the transfer of technology from research to market

This initiative will help create a robust and sustainable industry and stronger algae farming as demand of seaweed products in EU is expected to reach EUR 9 billion in 2030.



Brussels, 15.11.2022 COM(2022) 592 final

## COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

Towards a Strong and Sustainable EU Algae Sector

{SWD(2022) 361 final}













...



# EU Algae Initiative: 23 Actions

- 1. Algae farmers' toolkit
- 2. Improve Acess to Space & Multi-Use
- CEN Standardisation of testing & extraction methods
- 4. Develop Biofuel Certification Methodology
- 5. Develop Fertilisers under Regulation (EU) 2019/1009
- 6. Develop Market-Stimulating Mechanisms\*

- Develop algae-based feed\*
- 8. Promote Carbon Capture, Nutrient Extraction & LCA Methodologies\*
- 9. Reorintation of fisheries
- 10. Support for SMEs (esp. via BlueInvest)\*
- 11. Macroregional cooperation (SBEP)
- 12. Align with Aquaculture Assistance Mechanism













# EU Algae Initiative: 23 Actions (cont.)

- 13. Find evidance of algae as Blue Carbon Sink
- 14. Establish an EU Biobank Network
- 15. Align safe levels of contaminiation & iodine\*
- Map existing Monitoring & Data for seaweed 6 beach cast
- 17. New Processing & Biorefining systems\*
- 18. New Cultivation systems\*

- 19. Develop new Biofules
- 20. Consolidation of data
- 21. Consumer awerness campaigns\*
- 22. Labelling framwork\*
- 23. Awarness-raising in schools















# Working Group 4: Algae for Feed

## Goal:

• Promotion of algae feed product development by improving the business environment and cooperation across the algae feed value chains.

## • Expected outcomes:

- Factsheets on R&D needs for feed products
- Funding opportunities for innovation and market access
- Guidance on business support
- Report on legislation barriers for product development
- Campaigns for algae feed products













## Action Plan developed with the members

Integrate knowledge from relevant projects and studies



Develop a knowledge hub with relevant studies and project results



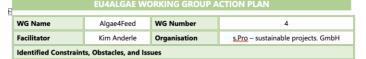
Host regular meetings



Develop 1-2 product licensing roadmaps



- Define next level of R&D needs
- Raise awareness to understand the feed market and consumer trends



According to EC, approximately there are 5 million EU farmers raise animals for food production, for which they need approximately 450 million tons of feed for their animals. As a result, to use as animal feed, EU imports 27 million tons soybean alone<sup>1</sup>, putting and enormous pressure outside EU borders. The feeds are a commodity product and thereby qualities and prices are controlled by global markets. Feeds from algae, such as ingredients and additives, are an upcoming application sector in EU, directly replacing feed imports, as algae feed products have been extensively studied and tested by industry, and there are some products in the market already.

However, to replace feed imports, we need to meet the market demand on supply and commodity prices, and so far ingredients from algae-based ingredients are costly, while innovation and market access is slowed or even stopped by regulatory barriers, lack of investment, business support and also product standards.

### **General Objective**

The aim is to promote algae feed product development by improving the business environment and cooperation across the algae feed value chains.

## **Working Groups Actions**

For delivering the outputs/outcomes, the planned activities are:

- T1: Integrate knowledge from relevant studies and project results
- T2: Develop a knowledge hub on
  - · novel feed ingredients and clinical trial results on large studies
  - · energy integration in production, e.g. microalgae production combined with industrial flue-gases, solar-powered algae production
  - science to policy e.g. continue work on EC regulation on algae heavy metals
- T3: Define next level of R&D needs of most important themes
- T4: Develop 1-2 product licensing roadmaps
- T5: Raise awareness to understand the feed market and consumer trends.
- T6: Meet 5x online or physically, usually for half a day or one day and back-to-back with existing events e.g. AlgaEurope, IFIF, FAO, Nordic Algae, AES etc

The planned deliverables by the end of 2024 are:

- O1: Factsheets on R&D needs for feed products
- O2: Funding opportunities for innovation and market access
- O3: Guidance on best available business support
- O4: Campaigns for algae feed products
- O5: 1-2 product licensing roadmaps e.g. feed ingredient vs. feed additive















## Network & Events













# Knowledge Hub

Mock-up presentation of the factsheets on the EU4Algae website and social media











HORIZON















Bio-based

**European Maritime** 

Fisheries and

# **Timeline**

- M11: Session legislation
- M12 / Dec 2022: Session 1
- M16 / April 2023: Session 2: Regulatory barriers
- M23 / Nov 2023: Session 3: Guest speaker 2
- M28 / Apr 2024: Session 4: Guest speaker 3
- M35 / Nov 2024: Session 5: Guest speaker 4













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## 1. What species are you working with?

- Spirulina
- Nostoc
- Chlorella
- Saccharina
- Laminaria
- ulva

- palmaria palmata
- porphyra
- Codium
- Fucus
- Ascophyllum
- Bonnemaissonia
- Asparagopsis

## 2. Is this a new algae species?

- Yes (Galdieria)
- No (most species but upscaling to satisfy a market is an issue)

## 3. Is the strain genetically modified?

- No (most responses)
- Yes (Chlamydomonas reinhardtii, Porphyridium purpureum)

## 7. What claims or functionality does your product have?

- 1. Protein source
- 2. Aminoacid compasiton
- 3. Immune Modulation
- 4. Prebiotic
- 5. Mineral source
- 6. Vitamin source
- 7. Hydrocollid production
- 8. Anti-methanogenic
- 9. Increase of milk production
- 10. Muscular weight gain

- Chlamydomonas reinhardtii
- Porphyridium purpureum
- Nannochloropsis
- Kappaphycus
- Gracilaria
- Galdieria

# Survey Overview

## 4. Is the strain on the list of qualified presumption of safety (QPS)?

- Not aware of this only thing that counts is it GMP+
- Don't know
- 5. Is it listed in the feed catalogue?

## Below you can see the variation in responses!!!

- I don't know. I thought I understood algae in general are allowed.
- Some are
- Aren't all algae covered by 7.1.1-7.1.5?
- I dont belive it is.
- No
- Yes
- . ALI of them are allowed to use as feeds IF they do not have critical mineral contents exceeding EU restrictions
- · just 'algae flour' listed

## 6. Is it listed but is produced by a new technology or from waste streams?

- New technology enclosed system using wastestream of CO2
- Yes, we work on waste stream use by microalgae.
- We grow Asparagopsis using wastewater from a fish hatchery
- Yes, mutants were generated via genetic engineering.
- New tech
- Contents of critical minerals (As, Cd, Pg, Hg) is a serious show stopper for inclusion af algae in feeds for food-producing livestock, since there are upper so-called reject levels in the EU. If these concentrations are exceeded they are illegal to use. For iodine there are max allowed contents in the whole diet of the animal, and this will limit inclusion to almost 0 for many species



# Join at slido.com #1513 913













