

Public consultation - IA on EU Algae initiative

Fields marked with * are mandatory.

Introduction



Public consultation on the EU Algae initiative

The initiative aims at increasing sustainable production, ensure safe consumption and boost the innovative use of algae and algae-based products in the European Union.

The objectives of this consultation are to:

- Collect facts, views and opinions on current challenges in the algae production and consumption as well as options and preferences for resolving them,
- ensure all voices are heard with adequate representation of all stakeholder groups – industry, public authorities, civil society, research; academia, NGOs, EU citizen, etc., and
- gather further information, including roadmaps, policy briefs, studies and analysis of policies, actions and technologies.

This survey seeks both your general opinion on the algae sector and provides an opportunity to answer more specific questions related to unlocking algae potential in Europe.

This survey should take approximately 10 to 30 minutes to complete. You can pause filling in the survey and continue at a later time. All information collected via the survey will be stored and handled in a confidential manner and compliant with the GDPR. You are entitled to upload a document or position paper to your contribution (maximum size 3 MB).

About you

* Language of my contribution

- Bulgarian
- Croatian
- Czech
- Danish
- Dutch
- English
- Estonian
- Finnish
- French
- German
- Greek
- Hungarian
- Irish
- Italian
- Latvian
- Lithuanian
- Maltese
- Polish
- Portuguese
- Romanian
- Slovak
- Slovenian
- Spanish
- Swedish

* I am giving my contribution as

- Academic/research institution
- Business association
- Company/business organisation
- Consumer organisation
- EU citizen
- Environmental organisation
- Non-EU citizen
- Non-governmental organisation (NGO)
- Public authority
- Trade union
- Other

* First name

The Bioenergy Association

* Surname

of Finland

* Email (this won't be published)

info@bioenergia.fi

* Organisation name

255 character(s) maximum

Bioenergia ry - the Bioenergy Association of Finland

* Organisation size

- Micro (1 to 9 employees)
- Small (10 to 49 employees)
- Medium (50 to 249 employees)
- Large (250 or more)

Transparency register number

255 character(s) maximum

Check if your organisation is on the [transparency register](#). It's a voluntary database for organisations seeking to influence EU decision-making.

174042620514-51

* Country of origin

Please add your country of origin, or that of your organisation.

- | | | | |
|---|---|--|--|
| <input type="radio"/> Afghanistan | <input type="radio"/> Djibouti | <input type="radio"/> Libya | <input type="radio"/> Saint Martin |
| <input type="radio"/> Åland Islands | <input type="radio"/> Dominica | <input type="radio"/> Liechtenstein | <input type="radio"/> Saint Pierre and Miquelon |
| <input type="radio"/> Albania | <input type="radio"/> Dominican Republic | <input type="radio"/> Lithuania | <input type="radio"/> Saint Vincent and the Grenadines |
| <input type="radio"/> Algeria | <input type="radio"/> Ecuador | <input type="radio"/> Luxembourg | <input type="radio"/> Samoa |
| <input type="radio"/> American Samoa | <input type="radio"/> Egypt | <input type="radio"/> Macau | <input type="radio"/> San Marino |
| <input type="radio"/> Andorra | <input type="radio"/> El Salvador | <input type="radio"/> Madagascar | <input type="radio"/> São Tomé and Príncipe |
| <input type="radio"/> Angola | <input type="radio"/> Equatorial Guinea | <input type="radio"/> Malawi | <input type="radio"/> Saudi Arabia |
| <input type="radio"/> Anguilla | <input type="radio"/> Eritrea | <input type="radio"/> Malaysia | <input type="radio"/> Senegal |
| <input type="radio"/> Antarctica | <input type="radio"/> Estonia | <input type="radio"/> Maldives | <input type="radio"/> Serbia |
| <input type="radio"/> Antigua and Barbuda | <input type="radio"/> Eswatini | <input type="radio"/> Mali | <input type="radio"/> Seychelles |
| <input type="radio"/> Argentina | <input type="radio"/> Ethiopia | <input type="radio"/> Malta | <input type="radio"/> Sierra Leone |
| <input type="radio"/> Armenia | <input type="radio"/> Falkland Islands | <input type="radio"/> Marshall Islands | <input type="radio"/> Singapore |
| <input type="radio"/> Aruba | <input type="radio"/> Faroe Islands | <input type="radio"/> Martinique | <input type="radio"/> Sint Maarten |
| <input type="radio"/> Australia | <input type="radio"/> Fiji | <input type="radio"/> Mauritania | <input type="radio"/> Slovakia |
| <input type="radio"/> Austria | <input checked="" type="radio"/> Finland | <input type="radio"/> Mauritius | <input type="radio"/> Slovenia |
| <input type="radio"/> Azerbaijan | <input type="radio"/> France | <input type="radio"/> Mayotte | <input type="radio"/> Solomon Islands |
| <input type="radio"/> Bahamas | <input type="radio"/> French Guiana | <input type="radio"/> Mexico | <input type="radio"/> Somalia |
| <input type="radio"/> Bahrain | <input type="radio"/> French Polynesia | <input type="radio"/> Micronesia | <input type="radio"/> South Africa |
| <input type="radio"/> Bangladesh | <input type="radio"/> French Southern and Antarctic Lands | <input type="radio"/> Moldova | <input type="radio"/> South Georgia and the South Sandwich Islands |
| <input type="radio"/> Barbados | <input type="radio"/> Gabon | <input type="radio"/> Monaco | <input type="radio"/> South Korea |
| <input type="radio"/> Belarus | <input type="radio"/> Georgia | <input type="radio"/> Mongolia | <input type="radio"/> South Sudan |
| <input type="radio"/> Belgium | <input type="radio"/> Germany | <input type="radio"/> Montenegro | <input type="radio"/> Spain |

- Belize
- Benin
- Bermuda
- Bhutan

- Bolivia
- Bonaire Saint Eustatius and Saba
- Bosnia and Herzegovina
- Botswana
- Bouvet Island
- Brazil
- British Indian Ocean Territory
- British Virgin Islands
- Brunei
- Bulgaria

- Burkina Faso
- Burundi

- Cambodia

- Cameroon
- Canada
- Cape Verde
- Cayman Islands

- Central African Republic
- Chad
- Chile
-

- Ghana
- Gibraltar
- Greece
- Greenland

- Grenada
- Guadeloupe

- Guam

- Guatemala
- Guernsey
- Guinea
- Guinea-Bissau

- Guyana

- Haiti
- Heard Island and McDonald Islands
- Honduras
- Hong Kong

- Hungary

- Iceland
- India
- Indonesia
- Iran

- Iraq

- Ireland
- Isle of Man
-

- Montserrat
- Morocco
- Mozambique
- Myanmar/Burma

- Namibia
- Nauru

- Nepal

- Netherlands
- New Caledonia
- New Zealand
- Nicaragua

- Niger

- Nigeria
- Niue

- Norfolk Island
- Northern Mariana Islands
- North Korea
- North Macedonia
- Norway
- Oman
- Pakistan

- Palau

- Palestine
- Panama
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- Sri Lanka
- Sudan
- Suriname
- Svalbard and Jan Mayen
- Sweden
- Switzerland

- Syria

- Taiwan
- Tajikistan
- Tanzania
- Thailand

- The Gambia

- Timor-Leste
- Togo

- Tokelau
- Tonga

- Trinidad and Tobago
- Tunisia
- Turkey
- Turkmenistan
- Turks and Caicos Islands
- Tuvalu

- Uganda
- Ukraine
-

- | | | | |
|--|----------------------------------|---|--|
| <input type="radio"/> China | <input type="radio"/> Israel | <input type="radio"/> Papua New Guinea | <input type="radio"/> United Arab Emirates |
| <input type="radio"/> Christmas Island | <input type="radio"/> Italy | <input type="radio"/> Paraguay | <input type="radio"/> United Kingdom |
| <input type="radio"/> Clipperton | <input type="radio"/> Jamaica | <input type="radio"/> Peru | <input type="radio"/> United States |
| <input type="radio"/> Cocos (Keeling) Islands | <input type="radio"/> Japan | <input type="radio"/> Philippines | <input type="radio"/> United States Minor Outlying Islands |
| <input type="radio"/> Colombia | <input type="radio"/> Jersey | <input type="radio"/> Pitcairn Islands | <input type="radio"/> Uruguay |
| <input type="radio"/> Comoros | <input type="radio"/> Jordan | <input type="radio"/> Poland | <input type="radio"/> US Virgin Islands |
| <input type="radio"/> Congo | <input type="radio"/> Kazakhstan | <input type="radio"/> Portugal | <input type="radio"/> Uzbekistan |
| <input type="radio"/> Cook Islands | <input type="radio"/> Kenya | <input type="radio"/> Puerto Rico | <input type="radio"/> Vanuatu |
| <input type="radio"/> Costa Rica | <input type="radio"/> Kiribati | <input type="radio"/> Qatar | <input type="radio"/> Vatican City |
| <input type="radio"/> Côte d'Ivoire | <input type="radio"/> Kosovo | <input type="radio"/> Réunion | <input type="radio"/> Venezuela |
| <input type="radio"/> Croatia | <input type="radio"/> Kuwait | <input type="radio"/> Romania | <input type="radio"/> Vietnam |
| <input type="radio"/> Cuba | <input type="radio"/> Kyrgyzstan | <input type="radio"/> Russia | <input type="radio"/> Wallis and Futuna |
| <input type="radio"/> Curaçao | <input type="radio"/> Laos | <input type="radio"/> Rwanda | <input type="radio"/> Western Sahara |
| <input type="radio"/> Cyprus | <input type="radio"/> Latvia | <input type="radio"/> Saint Barthélemy | <input type="radio"/> Yemen |
| <input type="radio"/> Czechia | <input type="radio"/> Lebanon | <input type="radio"/> Saint Helena
Ascension and
Tristan da Cunha | <input type="radio"/> Zambia |
| <input type="radio"/> Democratic Republic of the Congo | <input type="radio"/> Lesotho | <input type="radio"/> Saint Kitts and Nevis | <input type="radio"/> Zimbabwe |
| <input type="radio"/> Denmark | <input type="radio"/> Liberia | <input type="radio"/> Saint Lucia | |

* Please specify your organisation's role/relevance in the algae industry

- Production/cultivation of algae
- Pre-processing of algae
- Processing of algae into end-products
- Provide technology /services for algae production
- Sales of algae end-products
- Industry associations
- Research & development organisations
- Non-governmental organisations
-

Educational organisations

- None, I am a private person
- Other, please specify

The Commission will publish all contributions to this public consultation. You can choose whether you would prefer to have your details published or to remain anonymous when your contribution is published. **For the purpose of transparency, the type of respondent (for example, 'business association', 'consumer association', 'EU citizen') country of origin, organisation name and size, and its transparency register number, are always published. Your e-mail address will never be published.** Opt in to select the privacy option that best suits you. Privacy options default based on the type of respondent selected

* Contribution publication privacy settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous.

Anonymous

Only organisation details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published as received. Your name will not be published. Please do not include any personal data in the contribution itself if you want to remain anonymous.

Public

Organisation details and respondent details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published. Your name will also be published.

I agree with the [personal data protection provisions](#)

1. General questions

1.1. Please indicate, on a scale from 1 to 5 (1 = not important, 5 = very important) those areas which you consider should be prioritized in the EU algae sector.

	1	2	3	4	5	No opinion
* Simplification of administrative procedures	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Regulation for the algae sector	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Access to space and water	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improve EU algae industry's competitiveness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Ensure fair market competition	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Ensure skilled workforce and training	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Improve awareness and acceptance of the consumers about algae products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Integration of the algae sector in the local economy	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Potential contribution of algae towards environmental sustainability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Availability of funding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

1.2. For what uses do you see the most promising potential of algae? (optional)

at most 3 choice(s)

- Human food and food ingredients
- Animal/fish feed and ingredients
- Pharmaceuticals
- Cosmetics
- Biofertilizers
- Biostimulants
- Bioremediation (fixing carbon, phosphorus and nitrogen in water)
- Innovative applications (textiles, 3D printing, etc.)
- Other, please specify

* Please specify

255 character(s) maximum

Biofuels, bioliquids, biogas

1.3. There will be 5 webinars organised around the topics below. Please feel free to express your interest to join one or more of them

- Improving governance framework
- Supporting the functioning of the market
- Ensuring sustainable development of the EU algae sector
- Increasing social awareness and acceptance
- Closing knowledge, research, technological and innovation gaps

2. More specific questions on the targeted activities to support the sustainable growth of the algae sector

2.1. Please indicate, on a scale from 1 to 5 (1 = not important, 5 = very important) the importance of each of the following objectives to unlock the EU algae sector's potential

	1	2	3	4	5	No opinion
* 1. Improving governance framework	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* 2. Supporting the functioning of the market	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* 3. Ensuring sustainable development of the EU algae sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* 4. Increasing social awareness and acceptance of algae production, products and applications	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* 5. Closing knowledge, research, technological and innovation gaps	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Please provide us with further details on why you chose "very important" for the objective "Ensuring sustainable development of the EU algae sector" (optional)

500 character(s) maximum

Algae is a potential source for producing sustainable renewable fuels (i.e.diesel, bioliquids, SAF, biogas)

Please provide us with further details on why you chose "very important" for the objective "Closing knowledge, research, technological and innovation gaps" (optional)

500 character(s) maximum

Knowledge in producing different kinds of algae for different purposes needs to be strongly improved by technological solutions and innovation.

* Please elaborate

-

5. Ensuring sustainable development of the EU algae sector

5.1. In your opinion, what measures would ensure a sustainable development of the EU algae sector? Please indicate, on a scale from 1 to 5 (1 = not important, 5 = very important) the importance of each measure.

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	1	2	3	4	5	No opinion
* Create an EU wide sector organisation/network	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Create and maintain a web-based one-stop-shop for EU algae stakeholders for knowledge, good practices sharing, mapping of funding, algae project results, etc	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Create and maintain an assistance mechanism for EU algae stakeholders	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Identify and assess specific needs and availability of investment funding for innovation, technology, infrastructure, knowledge and skills development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Mapping and keeping an up-to-date EU funding sources overview for EU algae sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Support to start-ups in the algae sector in accessing the value chain, including contacts with others companies, knowledge institutes and/or regulators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

What else, in your opinion, should the one-stop-shop contain/deal with?

* 5.2. Are there any additional measures that should be incorporated?

- Yes
 No

* Please elaborate

Dissemination of knowledge

* 5.3. What kind of work, in terms of administrative burden, is added/removed when measures to ensure a sustainable development of the EU algae sector referred to in 5.1. are implemented?

The administration already exists, sustainability legislation already exists.

5.4. Impact from measures ensuring the sustainable development of the EU algae sector

* 5.5. Please choose the measures which according to you will have the highest impact

at most 3 choice(s)

Create an EU wide sector organisation/network

- Create and maintain a web-based one-stop-shop for EU algae stakeholders for knowledge, good practices sharing, mapping of funding, algae project results, etc
- Create and maintain an assistance mechanism for EU algae stakeholders
- Identify and assess specific needs and availability of investment funding for innovation, technology, infrastructure, knowledge and skills development
- Mapping and keeping an up-to-date EU funding sources overview for EU algae sector
- Support to start-ups in the algae sector in accessing the value chain, including contacts with others companies, knowledge institutes and/or regulators

* 5.6. What is, in your opinion, the most significant economic impact of ensuring a sustainable development of the EU algae sector? (Multiple options possible)

- Increase in total revenue generated by your organisation
- Decrease in total revenue generated by your organisation
- Increase in total gross value added from the algae sector
- Decrease in total gross value added from the algae sector
- Impact on the expansion / scale-up of micro- and macroalgae production facilities
- Impact on the market uptake of innovative products
- Increase in market prices
- Decrease in market prices
- Impact on potential competition in the algae sector
- Other, please specify

* 5.7. What is, in your opinion, the most significant social impact of ensuring a sustainable development of the EU algae sector? (Multiple options possible)

- Increase in employment
- Decrease in employment
- Impact on the attractiveness of the sector (e.g. salaries and how attractive the sector is for people to progress in careers)
- Impact on consumer awareness and acceptance
- Impact on improved availability of health-related products (nutraceuticals, cosmeceuticals, etc)
- Other, please specify

* 5.8. What is, in your opinion, the most significant environmental impact of ensuring a sustainable development of the EU algae sector? (Multiple options possible)

- Impact on CO2 and nutrients captured - bioremediation potential of algae
- Impact on the biodiversity
- Impact on the improved environmental footprint of algae-based industrial products (e.g. bio-based polymers, surfactants, etc) vs. fossil counterparts.
- Impact on reduction of the environmental footprint of production
- Impact by replacement of current products with more environmentally friendly alternatives (e.g. proteins from algae instead of soy)
- Other, please specify

7. Closing knowledge, research and innovation gaps

7.1. How could knowledge, research and innovation gaps best be closed? Please indicate, on a scale from 1 to 5 (1 = not important, 5 = very important) the importance of each measure.

	1	2	3	4	5	No opinion
* Developing improved algae cultivation systems (integrated multi-trophic aquaculture, offshore cultivation) or methods (e.g. cellular mariculture) contributing to fighting the current technical constraints in the production systems and consequently upscaling production volumes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Developing improved algae processing systems (biorefineries), processing algae into multiple products and for multiple applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Establishing a monitoring framework, targets and methodologies for (1) quantifying ecosystem services (e.g. carbon sequestration, blue carbon credits, nutrients uptake), (2) carrying capacities of EU waters for seaweed aquaculture and marine permaculture and (3) impacts of cultivation, restoration and harvesting on marine ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Research to strengthen the potential nutritional benefits of algae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Research to deliver new innovative algae-based products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Targeted support to industry helping to move from research /demonstration stage to the market	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Research on safe and secure algae production methods in closed systems (eg. by using animal based biofertilizers)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

* To support higher education programs in the area of blue biotechnology and innovative solutions for algae cultivation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Fund doctoral theses in the area of innovative solutions, knowledge, data or good practices on the blue bioeconomy and algae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

* 7.2. Are there any additional measures that should be incorporated?

- Yes
 No

* 7.3. What kind of work, in terms of administrative burden, is added/removed when measures to close knowledge, research and innovation gaps referred to in 7.1. are implemented?

Use of existing administration

7.4. What specific actions, in your view, could help to improve the collaboration among academia, research and industry?

7.5. Impact from closing knowledge, research and innovation gaps

* 7.6. Please choose the measures which according to you will have the highest impact

at most 3 choice(s)

- Developing improved algae cultivation systems (integrated multi-trophic aquaculture, offshore cultivation) or methods (e.g. cellular mariculture) contributing to fighting the current technical constraints in the production systems and consequently upscaling production volumes
- Developing improved algae processing systems (biorefineries), processing algae into multiple products and for multiple applications
- Establishing a monitoring framework, targets and methodologies for (1) quantifying ecosystem services (e.g. carbon sequestration, blue carbon credits, nutrients uptake), (2) carrying capacities of EU waters for seaweed aquaculture and marine permaculture and (3) impacts of cultivation, restoration and harvesting on marine ecosystems
- Research to strengthen the potential nutritional benefits of algae
- Research to deliver new innovative algae-based products
-

Targeted support to industry helping to move from research/demonstration stage to the market

- To support higher education programs in the area of blue biotechnology and innovative solutions for algae cultivation
- Fund doctoral theses in the area of innovative solutions, knowledge, data or good practices on the blue bioeconomy and algae

* 7.7. What is, in your opinion, the most significant economic impact of closing knowledge, research and innovation gaps? (Multiple options possible)

- Increase in total revenue generated by your organisation
- Decrease in total revenue generated by your organisation
- Increase in total gross value added from the algae sector
- Decrease in total gross value added from the algae sector
- Impact on the expansion / scale-up of micro- and macroalgae production facilities
- Impact on the market uptake of innovative products
- Increase in market prices
- Decrease in market prices
- Impact on potential competition in the algae sector
- Increase in R&D (i.e. the number of innovations seen)
- Other, please specify

* 7.8. What is, in your opinion, the most significant social impact of closing knowledge, research and innovation gaps? (Multiple options possible)

- Increase in employment
- Decrease in employment
- Impact on the attractiveness of the sector (e.g. salaries and how attractive the sector is for people to progress in careers)
- Impact on consumer awareness and acceptance
- Impact on improved availability of health-related products (nutraceuticals, cosmeceuticals, etc)
- Other, please specify

* 7.9. What is, in your opinion, the most significant environmental impact of closing knowledge, research and innovation gaps? (Multiple options possible)

- Impact on CO₂ and nutrients captured - bioremediation potential of algae
-

Impact on the biodiversity

- Impact on the improved environmental footprint of algae-based industrial products (e.g. bio-based polymers, surfactants, etc) vs. fossil counterparts.
- Impact on reduction of the environmental footprint of production
- Impact by replacement of current products with more environmentally friendly alternatives (e.g. proteins from algae instead of soy)
- Other, please specify

8. Potential regulatory measures

8.1. Please indicate, on a scale from 1 to 5 (1 = not important, 5 = very important) the importance of implementing the following measures.

	1	2	3	4	5	No opinion
* Targets (binding or voluntary) for substitution of fish-based fish feed and animal feed with algae-based feed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Better inclusion of algae in the Common fisheries policy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Targets for governments agencies to purchase/subsidize the price of algae-based food, the use of feed, and other products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Identification of regulatory gaps such as in agriculture, limiting use of algae-based feed/fertilisers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Establish an enabling regulatory framework allowing the deployment of algae-based (pilot) ecosystem services projects (e.g. bioremediation (removal of nutrients, CO2 from the water), biological carbon capture and storage, carbon pricing, carbon credits, marine permaculture)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Improved implementation of the Organic Regulation e.g. as regards algae international partnership initiatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Effective patents for algae technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 8.2. Are there any additional measures that should be incorporated?

- Yes
- No

* Please elaborate

Targets for use of algae for SAF, advanced biofuels and biogas

*

8.3. What kind of work, in terms of administrative burden, is added/removed when regulatory measures referred to in 8.1. are implemented?

Use of existing administration and legislation

8.4. Could you provide some examples of the consequences for you/your organisation of the absence of adequate regulatory frameworks in the EU algae sector?

8.5. Impact from the potential regulatory measures

* 8.6. Please choose the measures which according to you will have the highest impact

at most 3 choice(s)

- Targets (binding or voluntary) for substitution of fish-based fish feed and animal feed with algae-based feed[1]
- Better inclusion of algae in the Common fisheries policy
- Targets for governments agencies to purchase algae-based food, feed and other products, or materials
- Identification of regulatory gaps such as in agriculture, limiting use of algae-based feed/fertilisers
- Establish an enabling regulatory framework allowing the deployment of algae-based (pilot) ecosystem services projects (e.g. bioremediation (removal of nutrients, CO₂ from the water), biological carbon capture and storage, carbon pricing, carbon credits, marine permaculture)
- Improved implementation of the Organic Regulation e.g. as regards algae international partnership initiatives
- Effective patents for algae technologies

* 8.7. What is, in your opinion, the most significant economic impact of introducing regulatory measures? (Multiple options possible)

- Increase in total revenue generated by your organisation
- Decrease in total revenue generated by your organisation
- Increase in total gross value added from the algae sector
- Decrease in total gross value added from the algae sector
-

Impact on the expansion / scale-up of micro- and macroalgae production facilities

- Impact on the market uptake of innovative products
- Increase in market prices
- Decrease in market prices
- Impact on potential competition in the algae sector
- Other, please specify

* 8.8. What is, in your opinion, the most significant social impact of introducing regulatory measures? (Multiple options possible)

- Increase in employment
- Decrease in employment
- Impact on the attractiveness of the sector (e.g. salaries and how attractive the sector is for people to progress in careers)
- Impact on consumer awareness and acceptance
- Impact on improved availability of health-related products (nutraceuticals, cosmeceuticals, etc)
- Other, please specify

* 8.9. What is, in your opinion, the most significant environmental impact of introducing regulatory measures? (Multiple options possible)

- Impact on CO₂ and nutrients captured - bioremediation potential of algae
- Impact on the biodiversity
- Impact on the improved environmental footprint of algae-based industrial products (e.g. bio-based polymers, surfactants, etc) vs. fossil counterparts.
- Impact on reduction of the environmental footprint of production
- Impact by replacement of current products with more environmentally friendly alternatives (e.g. proteins from algae instead of soy)
- Other, please specify

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