

Review of Scottish fisheries practices to reduce climate change impacts

In supporting the delivery of Scotland's Future Fisheries Management Strategy 2020-2030[1], we aim to enhance our understanding of the impact that fishing can have on the marine environment and how the industry is managing this. **We would like to ask you some questions about the things that you or others are doing to reduce or the impact of fisheries on climate change.**

The results of this survey will be combined with a review of measures that fisheries industries around the world are implementing. This will be used to inform policy thinking around options and potential meaningful actions to encourage adaptive measures to ensure the sustainability and longevity of the fishing industry in Scotland.

The survey should take about 15 minutes to complete

If you have any questions at any time, please contact Jennifer.fox@aquatera.co.uk (<mailto:Jennifer.fox@aquatera.co.uk>), or Shane.quill@aquatera.co.uk (<mailto:Shane.quill@aquatera.co.uk>).

[1] Future fisheries: management strategy - 2020 to 2030 - <https://www.gov.scot/publications/scotlands-future-fisheries-management-strategy-2020-2030/> (<https://www.gov.scot/publications/scotlands-future-fisheries-management-strategy-2020-2030/>).

1. **Information Sheet, Privacy Notice and Consent Form:** The form attached explains the information that Aquatera wishes to collect from you including any personal data, how we intend to use it, what we do to protect the information we collect and what your legal rights are. Please indicate below that you have read the attached document and agree to it.

I have read and agree

I have read and do not agree

2. **Are involved in the catching or processing of fish and shellfish? If no, please go to Question 27.**

3. Have you made any **physical changes to your fishing vessel that reduce your fuel use or increase your fuel efficiency?** For example, engine, propeller or gearbox changes/upgrades or improved antifouling.

If yes, please provide details. If No, go to Question 6.

4. What was the primary reason for making this/these changes(s)?

Cost saving

Reduced emissions

Both are equally important

Other

5. Have you considered using alternative fuels and not yet done so? If so, why not?

- Have not had time
- I need more information on how to make these changes
- Initial investment needed
- I have no need to make changes

Other

6. Have you made any changes **specifically to your fishing practices in an effort to reduce fuel use or increase fuel efficiency**? For example, more selective gear leading to a lower proportion of bycatch, or changes to fishing gear to reduce drag.

If No, go to Question 11.

- Larger mesh size
- Changes in knot tying
- Use of Dyneema®

Other

7. What was the primary reason for making this/ these change(s)?

- Cost saving
- Reduced emissions
- Both are equally important

Other

8. If you have made changes to your fishing practices in an effort to reduce fuel use or increase fuel efficiency, has this changed your time at sea (fishing effort, time of day, type of fishing)?

If yes, please provide details.

9. How have these changes affected overall fuel consumption, and if so, how? For example, increased or reduced fuel consumption by x% compared to what it used to be (prior to changes).

10. Have you considered making these changes and not yet done so? If so, why not?

- Have not had time
- I need more information on how to make these changes
- Initial investment needed
- I have no need to make changes
- N/A

Other

11. Are you involved in **fish and shellfish processing**?

If No, go to Question 16.

12. Have you made any changes to **your working practices in an effort to reduce your energy/fuel consumption or switch to a greener source of fuel/energy**? For example, LED lighting, energy supply from renewables, use of biodiesel.

If yes, please provide details. If No, go to Question 16.

13. What was the primary reason for making this/ these change(s)?

- Cost saving
- Reduced emissions
- Both are equally important

Other

14. If you have made changes to your working practices in an effort to reduce your energy/ fuel consumption or switch to a greener source of fuel/energy- has this changed your pattern of fuel/energy consumption?

If yes, please provide details.

15. Have you considered making these changes and not yet done so? If so, why not?

- Have not had time
- I need more information on how to make these changes
- Initial investment needed
- I have no need to make changes
- N/A

Other

16. Have you made any changes in an **effort to reduce waste/gear loss, either on land or on your fishing vessels**? For example, fishing gear designed for easier recyclability, or participation in gear marking programmes?

If yes, please provide details. If No, please go to Question 20

17. What was the primary reason for making this/ these change(s)?

Cost saving

Reduced emissions

Both are equally important

Other

18. Has this had an effect on the lifespan of your fishing gear?

If yes, please provide details.

19. Have you considered making these changes and not yet done so? If so, why not?

- Have not had time
- I need more information on how to make these changes
- Initial investment needed
- I have no need to make changes
- N/A

20. Do you use a **local market, or have you made any change to your fish/shellfish sales by making increased use of local markets?**

If yes, please provide details. If No go to Question 23.

21. If this is a recent change, what was the primary reason for making this/ these change(s)?

- Cost saving
- Reduced emissions
- Both are equally important

Other

22. Have you considered making these changes and not yet done so? If so, why not?

- Have not had time
- I need more information on how to make these changes
- Initial investment needed
- I have no need to make changes
- N/A

Other

23. Have you made any change to your **refrigeration/freezer systems to increase energy efficiency**? If yes, please provide details. For example, what changes have been made, and what has this increased or reduced energy consumption? If no, please go to Question 27.

24. Have you made any change to your refrigeration/freezer systems to move away from hydrofluorocarbon refrigerants, and other refrigerants with a high Global Warming Potential (GWP)? If yes, please provide details. For example, which refrigerants have been replaced and which replacements have been used?

25. What was the primary reason for making this/ these change(s)?

- Cost saving
- Reduced emissions
- Both are equally important
- N/A

Other

26. Have you considered making these changes and not yet done so? If so, why not?

- Have not had time
- I need more information on how to make these changes
- Initial investment needed
- I have no need to make changes

Other

27. How aware are you of issues to do with **stock resilience and impacts of climate change on fish stocks** and does this influence your behaviour? Are there any specific measures such as better stock assessments, better distribution of quotas, better protection to vulnerable habitats & species, diversification of target species or other that you would like to see put in place to support this?

Please provide details.

28. Do you think specific measures should be put in place **to change consumer behaviour to address climate change impacts**?

For example, should authorities or the fish sellers make attempts to encourage consumers to eat locally fished species? Are there any other measures you may want to suggest?

Please provide details.

29. **Are there any other approaches that you have taken or that you know about that could reduce or mitigate fisheries climate change impacts?**

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