

Sectoral Emissions Ceilings

Q4: What do you view as the key actions required to ensure the emission reduction targets set out in the Sectoral Emission Ceilings are met?

[REDACTED] Killybegs Fishermens Organisation Ltd:

Regarding the fishing industry, a new approach to energy generation and usage from catching to consumer which would include:-

- ORE, with substantial input from the fishing industry regarding location and installation.
- R&D for new propulsion systems
- Improved planning and installation of processing facilities - at sea and on land
- Fisheries management, at EU, national and local levels, to reflect and facilitate such changes.

Q5: What do you view as the main challenges/obstacles to the Sectoral Emission Ceilings being met?

[REDACTED] Killybegs Fishermens Organisation Ltd:

Costs to the existing fishing industry

Renewable Gases

Q13: What role does renewable gas have in the power generation sector?

[REDACTED] Killybegs Fishermens Organisation Ltd:

Hydrogen production has a possible role in power generation but when making this submission, KFO is of the opinion that hydrogen is more suited to a hub approach where a hydrolysis plant is situated in close proximity to an ORE installation and acts as a hub for local distribution directed at the hard to abate sectors within transport namely the fishing fleet and HGVs.

Enterprise, Waste & Circular Economy

Q23: How can we encourage the diversification away from products with high levels of embodied carbon, such as traditional cement in construction to lower carbon alternatives?

[REDACTED] Killybegs Fishermens Organisation Ltd:

Support the research and development of low carbon alternatives

Q71: What are the main barriers to consumers embracing the Circular Economy, e.g. lack of awareness, increased costs compared to disposable products, lack of access to circular goods and services?

[REDACTED] Killybegs Fishermens Organisation Ltd:

All of the above

Electricity

Q11: What options are available to increase the penetration of renewable electricity beyond the up to 80% committed to in Climate Action Plan 2023?

[REDACTED] Killybegs Fishermens Organisation Ltd:

Explore the feasibility options of supplying renewable electricity to the fishing/aquaculture industry, including processing and route to market options and possibly other non-Irish stakeholders in those industries

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in close proximity to an ORE installation and acts as a hub for local distribution directed at the hard to abate sectors within transport namely the fishing fleet and HGVs.

Q16: What measures might be taken to improve the resilience of the electricity system to the impacts of climate change?

[REDACTED] Killybegs Fishermens Organisation Ltd:

Reduce exposure of the distribution system to extreme weather conditions

Q18: What financial incentives are needed to increase renewable generation capacity?

- a. To incentivise commercial scale production.
- b. To incentivise microgeneration.

[REDACTED] Killybegs Fishermens Organisation Ltd:

Grants, loans and tax benefits

Agriculture & LULUCF

Q69: What other opportunities exist to support the decarbonisation of the agriculture, land-use and marine sectors?

[REDACTED] Killybegs Fishermens Organisation Ltd:

KFO has engaged with a global ORE company (Hexion) to develop ORE which can

- (1) supply electricity to a substantial area of the northwest of Ireland with
- (2) minimum disruption of the important fishing grounds.
- (3) outcomes will be a fishing fleet using low-carbon fuel landing high quality food within a short distance of catching.

Marine Environment

Q68: What sort of role could Ireland's marine environment (lakes, seas) have in delivering climate mitigation? What are the building blocks that need to be put in place to support the role of the marine environment in climate mitigation (e.g. a regulatory framework, measurement and accounting rules)?

[REDACTED] Killybegs Fishermens Organisation Ltd:

There are a number of actions Marine Sector stakeholders can take to contribute to climate mitigation:

- 1, Reduce emissions from fishing vessels - KFO vessel participated in EU- funded EfficientShip project (<https://www.researchgate.net/publication/>) to demonstrate recovery of exhaust gases and convert to heat needs of the vessel.
2. Establish the Carbon Footprint of fishing vessels to guide future mitigation needs. KFO has engaged with the Neptunus project (<https://neptunus-project.eu/>) of which NUIG is a partner and can demonstrate the very positive Carbon Footprint of its Refrigerated Sea Water fleet which scores at global level and, more importantly, can identify those functional areas of the fishing vessels which can be adjusted to yield even better results.

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Research & Innovation

Q91: Are the required research and innovation programmes and structures in place to support our climate ambitions; including the provision of the evidence needed to underpin policy in a timely manner?

[REDACTED] Killybegs Fishermens Organisation Ltd:

Some progress has been made but some gaps remain.

1. Research is required regarding the infrastructure which will be required to ensure best possible use of ORE.

2. Training is required to ensure there is sufficient supply of competent personnel to:-

(i) transfer ORE into the updated national grid and maintain high safety standards for both workers and the public

(ii) fill the surge in demand for sea-going operatives who will need to move between fishing and ORE technical roles as demand fluctuates

(iii) service as yet unidentified new industries and roles which are likely to grow around this new technology.

Q92: Have you identified any research and innovation gaps which need to be addressed? If so, how can these gaps best be addressed?

[REDACTED] Killybegs Fishermens Organisation Ltd:


See 91

Q93: Are there important areas of research and innovation, where Ireland currently does not have sufficient capability, that need to be developed? If so, what are these areas?

[REDACTED] Killybegs Fishermens Organisation Ltd:

See 91

Q94: Is the research and innovation system developing and retaining the skills needed to deliver on our climate ambitions?

 Killybegs Fishermens Organisation Ltd:

There is a danger that skilled operatives in Ireland will be targeted by other operators as payment levels are likely to be very competitive in this workplace