**Project Name**: FLOWW

**Name of Meeting**: Minutes of Fishing Liaison with Offshore Wind and Wet Renewables Group (FLOWW)

**Meeting Venue**: Board Room at The Crown Estate’s offices 1 St James’s Market, London. SW1Y 4AH.

**Date & Time of Meeting**: 10.30am on Monday 19th February 2018

**Chair of the Meeting**: Colin Warwick (Chair)

**Names of the Attendees**
- Harriet Nicholls (HN)
- Bruce Buchanan (BB)
- Graham Farrant (GF)
- Matthew Frow (MF)
- Rosie Scurr (RS)
- Hywel Roberts (HR)
- Jess Campbell (JC)
- Caitlin Long (CL)
- Dale Rodmell (DR)
- Oankar Birdi (OB)
- Merlin Jackson (MJ)
- Jake Laws (JL)
- John Hartley (JH)
- Davy Hill (DH)
- Paul Carter (PC)
- Peter Moore (PM)
- Peter Lawson (PL)
- Holly Best (HB)
- Nikki Christie (NC)
- Malcolm Morrison (MM)
- Ian Rowe (IR)
- Hannah Mary Goodlad (HMG)
- Raymond Hall (RH)
- Andy Roper (AR)
- Alastair Byford Bates (ABB)
- Ben Franks (BF)
- Chris Jenner (CJ)
- Tony Fisk (TF)
- Steve Dawe (SD)
- Ben Sims (BS)

**Dial in**
- Richard Green (RG)
- Peter Jamieson (PJ)
- Andronikos Kafas (AK)

**Item** | **Notes** | **Action** | **Due Date**
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1.0 | **WELCOME AND INTRODUCTION**
The Chair welcomed everyone and round-table introductions were given. |  |  |
2.0 | **Cable Cutting Workshop**
**Scene setting (20mins) – ICPC recommendations**

**Steve Dawe – ESCA Chair**

*ICPC recommendations can be requested from the below link.*
[https://www.iscpc.org/publications/recommendations/](https://www.iscpc.org/publications/recommendations/)

Copy of ICPC Recommendation No. 1 – Management of Redundant and Out of Service Cables to be sent out with minutes.

**Planning**
- Cable ends get clumped to ensure tension on the cable
- Should stay in the same place within licence area

**Removal**
- No requirement in ICPC guidance to remove out of service submarine cables outside 12nm, just in licence conditions within 12nm
  - ESCA trying to work with Kingfisher to ensure a more consistent dataset of cables out to edge of EEZ
- Different types of sinker
  - Not much guidance
  - Design is important |  |  |  |
### Meeting Actions

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|     | • Sinkers are essential  
|     |   - No obligation beyond 12nm to a) cut and clump disused cables, and b) record and disseminate position of cut ends  
|     |   - Question raised whether it’s possible to cut cables on the surface or seabed? Response that cutting in situ is not an option, as need to be able to maintain the tension in the cable - without weighting the cut ends, the cable will recoil in the seabed and potentially come loose, become more of a hazard.  
|     |   - Old and new cables have very different types of issues, e.g. Old cables have less tension and are heavy  
|     |   - TF understands there has been up to 160 cuts in last 6 months, e.g. high number of cuts required on new interconnector developments  
|     | Safe handling of weights important; ICPC guidelines are that a sinker is ~40-40kg, as this is sufficient to keep tension on the cable, friction on the seabed does a lot of work. In strong tidal conditions and/or hard ground, may need to consider other weighting options e.g. larger weights or mushroom anchor. Generally, avoid laying cables in strong tidal currents as they won’t stay put.  
|     | **ACTION:** Send round ICPC recommendations to FLOWW  

**Some discussion followed on cable cutting, marking cut ends, and clumping**

| 3.0 | Cable Cutting Workshop  
|     | Cables system planning (20mins)  
|     | **Tony Fisk** – *Commercial Director & Head of Practice, Pelagian Ltd*  
|     | General points raised  
|     |   - NtM should get issued pre-survey as part of best practise.  
|     |   - Routes change based on external changes  
|     |   - Fishing across cables = high risk  
|     |   - Fishing along /parallel to cables = lower risk  
|     |   - Risk to life / impacts on other activities = managed through Kingfisher Bulletin  
|     |   - Small percentage of seabed actually contains cables  
|     |   - Operators aim for quick repair = mobilise ship 24hour  
|     |   - Early engagement with fishing industry essential – has been an issue in the past  
|     |   - Can deviate from BPG or regulation but developer need to document why they have made changes.  
|     | **Cable Burial Plan**  
|     |   - This is produced at time of laying the cable  
|     |   - Different equipment used to lay cables; only go over the area with ROV after cable has been jetted in  
|     |   - Rock placement – often will need a separate licence  
|     |   • NB. cannot make any repairs once rocks placed  
|     | **Self-Insurance**  
|     |   - Most telecoms companies self-insure unlike interconnectors  
|     |   - Initial installation is key to productivity  
|     |   • Due to the cost of repairs  
|     |   - Cable installation works in line with seabed.  
|     | **Power cables**  
|     |   - Routes are more constrained due to grid connection locations | Action | Due Date |
|     | HN | With Minutes |
### Meeting Actions

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<td>Post construction surveys are likely to be necessary due to the risk as pre-defined route and seabed is likely to be more changeable.</td>
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<td>Offshore wind cables</td>
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<td>Fixed end and start location, influenced by grid connection</td>
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<td>Initial desk-based identification of likely route – GIS, stakeholder engagement and constraints identification</td>
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<td>Timings</td>
<td>Licences are often issued before detailed surveys are undertaken and so the developers are already tied in to a broad route/corridor.</td>
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<td>Data and GIS</td>
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<td>More knowledge and information that is on the systems the easier the choices are</td>
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<td>Importance of sharing knowledge and working together</td>
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<td>Use of GIS desk data with route planning</td>
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<td>UKFIM could be a useful tool that we could make more use of?</td>
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<td>Importance of understanding the grounds and seabed from early on in the process</td>
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*Discussion followed highlighting dialogue is still key.*

### 4.0 Cable Cutting Workshop

#### Regulator update (10mins)

*Richard Green, Marine Management Organisation*

- Marine Licence – Very few marine licences issued for cutting cables
- Renewables – now a standard licence condition for offshore wind farms that cut cable ends need to have location marked; have only dealt with one application so far, have another in process. Not a condition to pass that information onto Kingfisher, but this is something that could be looked at.
- MMO wouldn’t be sighted on most of the cable cutting activity (ref earlier point re no requirement beyond 12nm to have a ML for a cable, and so no conditions re cutting/mark ing)

**ACTION:** EN to provide the standard offshore wind Marine Licence condition re cable cutting again for info, and provide update at next meeting

**ACTION:** EN to provide the standard offshore wind Marine Licence condition re cable cutting again for info, and provide update at next meeting

**EN**

**FLOWW Meeting**

**asap**

### 5.0 Cable Cutting Workshop

#### Best practice in the Oil and gas sector (15mins)

*Raymond Hall, Scottish Fishermen’s Federation*

- Decommissioning means full removal for pipelines
- Rock dumping usual in pipeline cut ends or integrating with the mud line to keep it down.
- Pipeline composition – plastic contained in the pipelines that gets released when decommissioned. Volume of plastics potentially involved in cables a concern for the SFF.
### Item Notes

- Old submarine cables contain copper – studies by university researches show that this is not a pollution risk as does not leach into the marine environment
- Impact assessment for decommissioning – to look at what is the least damaging approach

### 6.0 Cable Cutting Workshop Discussion and questions

*Led by Colin Warwick, FLOWW Chair*

- TF – ESCA producing best practice guide on cables covering all stages of cable development (power cables, interconnectors, telecoms) – should be ready in next 3-6 months
- DR – link to FLOWW BPG and cables text, value of liaison in the industry
  - Cables Sub-group text needs to capture what FLOWW has learnt
  - How do we change the process?
  - There needs to be a plan, with early engagement and more data made available – getting better as we move on.
- Minimise risk to cables by engagement with fisheries stakeholders at planning stage
- Need to think of OFTOs and the power cables
  - ESCA view that we’re in a much better place than 7 years ago; panning for a power cable/interconnector these days would be a different experience than in past years, better emphasis on early dialogue. Timing is most important
- Fishing data
  - Need to be used to its full potential
  - Do we have good data at the moment
- Hornsey Project 1 has used good engagement and data in its development.
  - Good news story – could share this experience
  - Was UKFIM data used?
- Need to ensure that data is read by the fishermen and original FLO

**ACTION:** HN and JC to think how best to use UKFIM data and if it could be used more widely.

### 7.0 FLOWW going forward (45 mins)

*Jessica Campbell, The Crown Estate*

*Nikki Christie, Crown Estate Scotland*

Supporting recommendation paper circulated prior to meeting; since this was written, changes in TCE staffing levels (i.e. JC going on maternity leave in June, HN reduction in marine policy role) means that a solution to resourcing the secretariat and Chair functions needs to be agreed as a matter of priority.

- Marine Scotland – Support FLOWW going forward but just need time to have enough resource in place.
- Aspiration to have MS, CES, TCE and MMO jointly
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<td>responsible for managing the group in future</td>
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<td></td>
<td>• Support for interim option to outsource secretariat function –</td>
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<td>agreement for Colin to remain as chair until next year to</td>
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<td>ensure some continuity with the group.</td>
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<td>• Ideally group would have a 5 year plan – look to the future,</td>
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<td>what do we want the group to be focusing on and what do</td>
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<td>we want to be getting out of it?</td>
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<td><strong>ACTION:</strong> FLOWW group to pull together a 5 year plan to look at the future of FLOWW and how best to develop.</td>
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<td><strong>The Crown Estate - Offshore Wind Leasing</strong></td>
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<td><em>Jessica Campbell, The Crown Estate</em></td>
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<td>• Update and brief discussion what the potential new offshore leasing could look like – Further information on the website</td>
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<td><strong>ACTION:</strong> Send link to TCE new leasing information page to the FLOWW group – update at next FLOWW meeting on TCE formal engagement progress and process</td>
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<td><strong>UXOs (30mins)</strong></td>
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<td><em>Merlin Jackson, Thanet Fishermen’s Association</em></td>
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<td>• Originated as a Nemo issue</td>
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<td>• Located 210 over a 800km stretch, many more than originally anticipated</td>
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<td>• most had to be recovered by divers by hand</td>
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<td>• Recent change in UXO regulation, and how noise generated by UXO detonation is managed (impacts on marine mammals). Larger impact zone (15km) that needs to be mitigated. MMO are trying to work through how to implement new guidelines and mitigation.</td>
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<td>• Fishing industry worried how detonation would impact the fishing ground.</td>
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<td>• New cable route for proposed Thanet Extension could be an issue</td>
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<td>• Change in UXO survey</td>
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<td>• Better detection of anomalies, initial threat and risk assessment</td>
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<td>• Greater consideration given to future issues so likely more UXOs getting flagged</td>
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<td>• Now more limits to detonating in situ</td>
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<td>• Better to sort out now rather than repair later</td>
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<td>• Interconnectors – take out risks as want to decrease cost to the consumer.</td>
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<td>• FLOWW BPG – update in line with UXOs</td>
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<td>• New methods of survey = new issues</td>
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<td>• UXO explosions and impact on fish habitat</td>
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<td><strong>ACTION:</strong> Incorporate a UXO section of the Best Practise Guidelines update</td>
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<td><strong>UPDATES</strong></td>
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**Note:**

- TBC: To Be Confirmed
- HN: Head of Natural
- Next FLOWW meeting
- With minutes

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Unclassified
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| **BPG liaison update** | • Waiting to add in cables sub-group text  
• Update and maintenance of document could be outsourced to Secretariat role – resourcing at TCE has meant the update has not progressed in the timescales we originally wanted  
• Make a FLOWW priority – progress a BPG update and have ready by end of year (new Secretariat to lead) | | |
| **Notice to Mariners** | Document circulated before meeting  
• Discussion on who should be included when sending out a NtM?  
• Helpful if fisheries groups who could distribute to members and individuals of interest to have sight of the NtM  
• Should the NtM guidance note recommend close out reports/notices are issued?  
  o General view that it’s helpful to have a final close out. | **ACTION:** Final comments on latest draft back to Jess by week following meeting (w/c 2nd March). | JC  
W/c 3rd March |
| **Floating Wind** | • HMG from Statoil – Hywind project has been running for 7/8 months and is over performing  
• Potential for a workshop at next or future meeting looking at early engagement  
• Could get input from Hywind, MS, SFF... ; useful to draw in lessons learned from R3 re project siting, engagement | **ACTION:** HMG to present at next FLOWW meeting on technology and the project | HMG  
Next FLOWW meeting |
| | • Marine Scotland – are developing an Offshore Wind Plan with a workshop to take place in the next months. | **ACTION:** BB to provide information on workshop when known. | BB  
When known |
| **Cables Sub-group** | • OFTOs and physical cable mitigation measures to be discussed in the cables meeting being held following the meeting. | | |
| **10.0** | **“Notice Board”**  
Pre-requested topics:  
**Cable risk assessments and/ or post installation survey reporting**  
• Always preference to bury cables BUT mobile seabed means sometimes difficult/not possible  
• Monitoring and understanding of the risk and how to mitigate against | | |
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<td>Cables awareness bulletin – talks on cable exposure</td>
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<td>Monitoring programme – got input from fishermen and then created a plan</td>
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<td>Monitoring programmes should be developed in line with FLOs</td>
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<td>Free Span and Scour need to monitor as a high risk situation</td>
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<td>Could build up more evidence/knowledge about long term conditions</td>
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<td>Should the length and height of the span be recorded?</td>
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<td>AUVs could be used to do the surveys</td>
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**Jonas Seafood**

- Discussion on the letter received from Jonas Seafood around whether FLOWW is the appropriate forum to discuss the issues raised.
- Agreed response:
  - It is the considered opinion of FLOWW that we do not directly deal with producer organisations issues and FLOWW is not the forum for supply chain discussions.

**A list of all FIR / FLO for offshore wind and beyond**

- Oil and Gas UK – list of wider FLOs and FIRs
- Renewables UK to raise and look into possible list
- Onshore and Offshore FIR/FLOs are usually different with the OW industry being slightly different.

**ACTION:** Renewables UK and TCE to look into

**AoB**

- NOREL – John’s replacement
  - Raymond Hall will take over John Watt’s role as the FLOWW representative at the NOREL group.

**NEXT meeting to be held around July in London.**