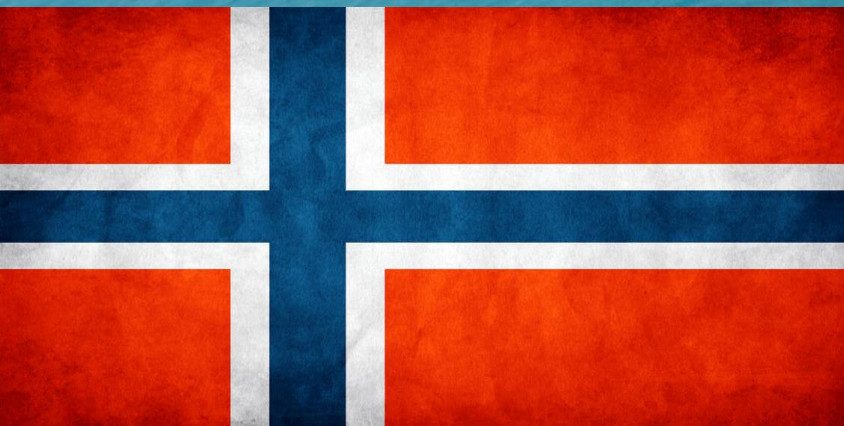


# FISK OG HAVVIND 2024 STAVANGER

## SCOTLAND OFFSHORE RENEWABLE UPDATE JUNE 2023-JUNE 2024

- PHYSICAL CHANGES
- INCREASED PRESSURES
- MARINE PLANNING UPDATE
- KEY TO SUCCESSFUL CO EXISTANCE
- IMPORTANCE OF ON AND OFFSHORE CONSULTANTS
- DECCOMMISIONING OF OFFSHORE WIND FARMS
- PROGRESS OVER LAST 12 MONTHS
- ICES WORKING GROUP ON OFFSHORE WIND DEVELOPMENT AND FISHERIES (WGOWDF)



- **SEAGREEN OWF OPERATIONAL Q4 2023**

- **NEART na GAOITHE NnG OWF (9)**

- UNDER CONSTRUCTION

- **MORAY WEST (10)**

- UNDER CONSTRUCTION

- **BERWICK BANK OWF (15)**

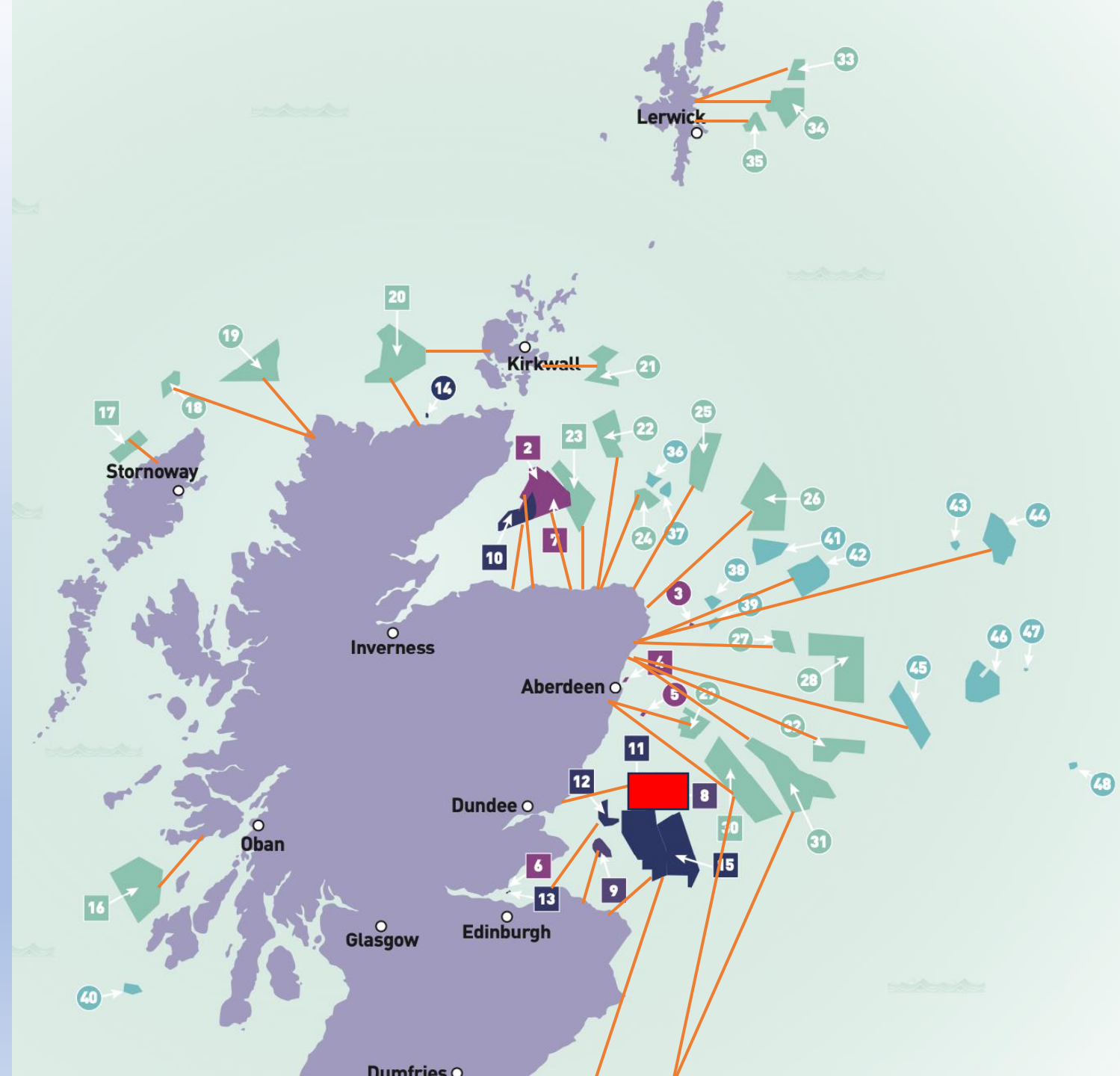
- PLANNING APPLICATION SUBMITTED

- **WEST of ORKNEY OWF (20)**

- PLANNING APPLICATION SUBMITTED

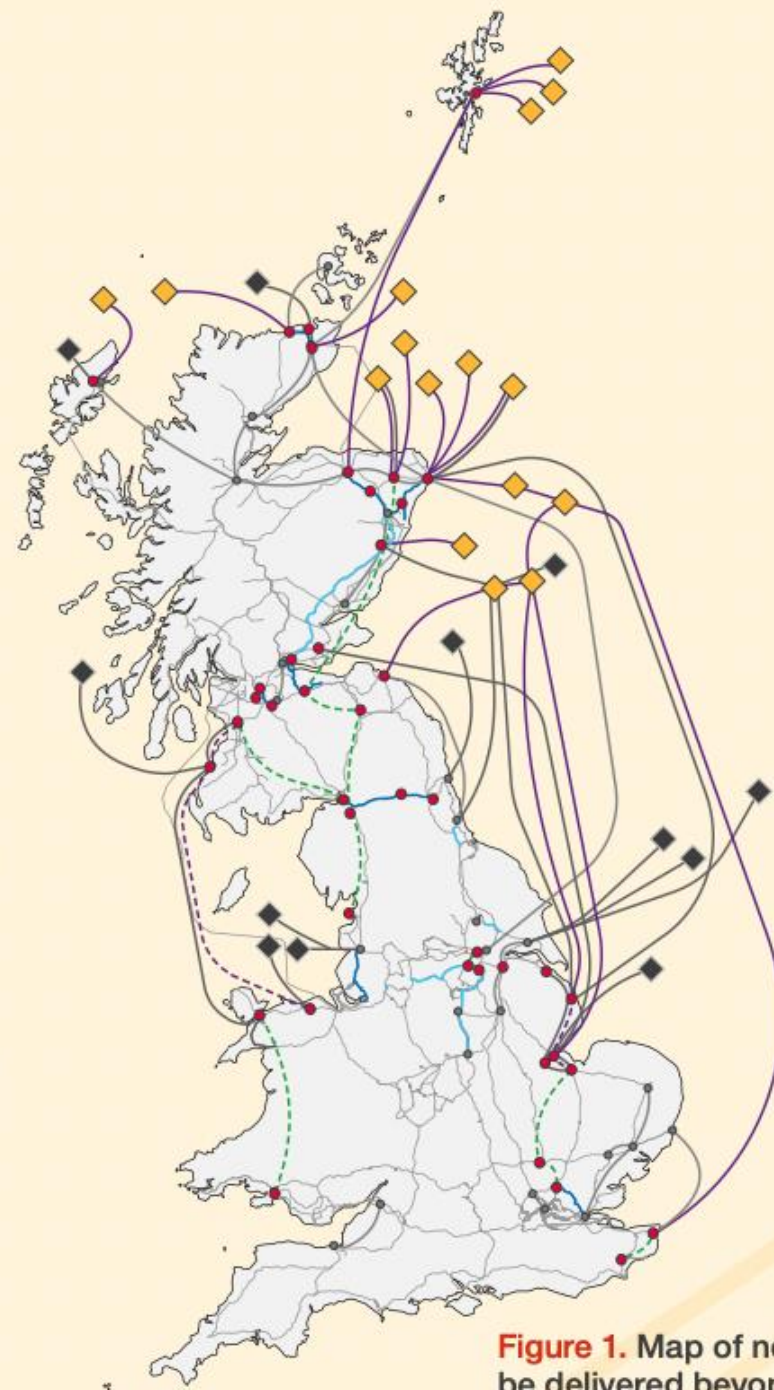
- **GREENVOLT (TOG) (38)**

- CONSENTED MARCH 21<sup>ST</sup> 2024 LARGEST FLOATING OFFSHORE WINDFARM TO DATE 560Mw (35 FLOATING TURBINES)



# ELECTRICITY SYSTEM OPERATOR (ESO) BEYOND 2030

- 3 X MORE SUBSEA CABLING THAN ONSHORE
- INCREASED PIPELINE AND CABLE CROSSINGS
- UNPRECEDENTED LEVELS OF ROCK PROTECTION
- ROCK PROTECTED AREAS MUST BE SHOWN AS A HAZARD ON CHARTS GIVEN TO FISHERMEN (ELECTRONIC)



Category	Key
New offshore network infrastructure	—
New onshore network infrastructure	—
Voltage increase on network	—
Existing network upgrade	—
Substation upgrade or new substation	●
Substations delivered for 2030	●
In scope wind farm	◆
HND wind farm	◆
Existing Network	—
Reinforcements delivered for 2030	—

\*Dashed lines represent low maturity options.  
**Note:** all routes and options shown on this map are for illustrative purposes only.

**Figure 1.** Map of network infrastructure to be delivered beyond 2030

# MARINE PLANNING UPDATES

- **NATIONAL MARINE PLAN (2015)**

- FRAMEWORK TO HELP DETERMINE IF A NEW OR EXISTING MARINE ACTIVITY IS ENVIRONMENTALLY OR ECONOMICALLY SUSTAINABLE AND SUITABLE FOR THE AREA. (THE NMP2 IS CURRENTLY UNDER REVISION)

- **SECTORAL MARINE PLAN-OFFSHORE WIND FOR TARGETED OIL and GAS DECARBONISATION(DUE SPRING 2025)**

- CURRENTLY BEING DEVELOPED HOWEVER DEVELOPERS AWARDED EXCLUSIVITY LEASING RIGHTS CAN PROCEED WITH PRE CONSENT SURVEYS, SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENTS (EIA)

- **The FISHING LIAISON with OFFSHORE WIND and WET (FLOWW)**

- ESTABLISHED IN 2002 TO FOSTER GOOD RELATIONS BETWEEN THE FISHING INDUSTRY AND OFFSHORE RENEWABLE SECTORS. (FLOWW BEST PRACTICE GUIDELINES UNDER REVISION)

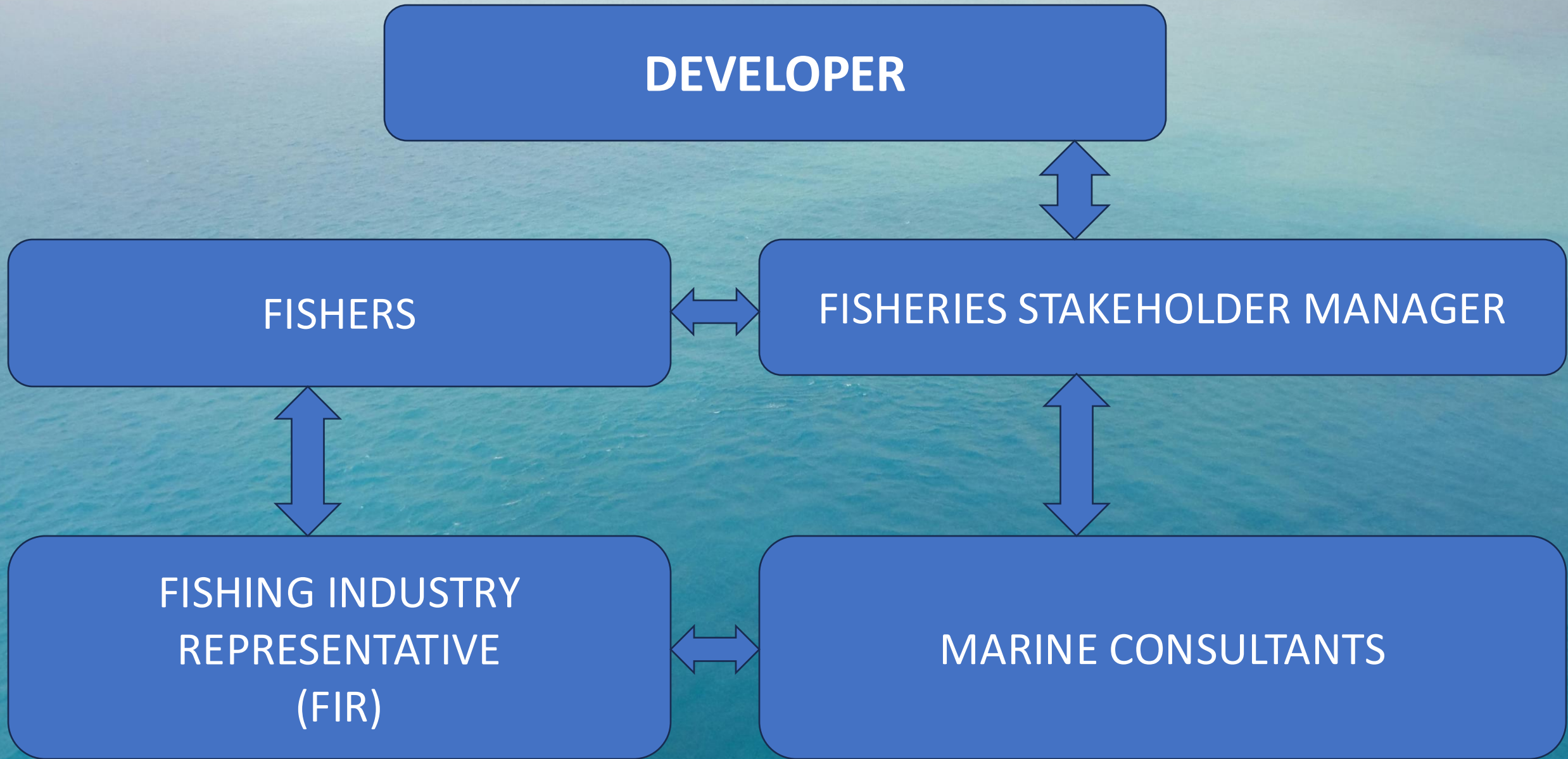
**DEVELOPER**

**FISHERS**

**FISHERIES STAKEHOLDER MANAGER**

**FISHING INDUSTRY  
REPRESENTATIVE  
(FIR)**

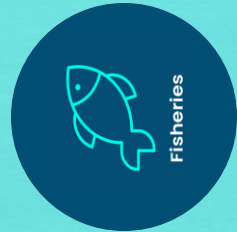
**MARINE CONSULTANTS**



# Offshore environmental consultancy



- Fisheries heat mapping to inform site selection
- Environmental impact assessment
- Support throughout offshore consenting process
- Monitoring changes in fisheries activity in response to offshore developments



- Development of Fisheries Management and Mitigation Strategies
- Advice for improved management and development of Fishery Management Plans
- Fishery Improvement Projects - working with industry, government and scientific partners to deliver improved environmental sustainability



- Marine Stewardship Council assessors
- Consultation with fishers, industry representatives, scientists and governing bodies

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**nima**  
CONSULTANTS



Fiona Nimmo

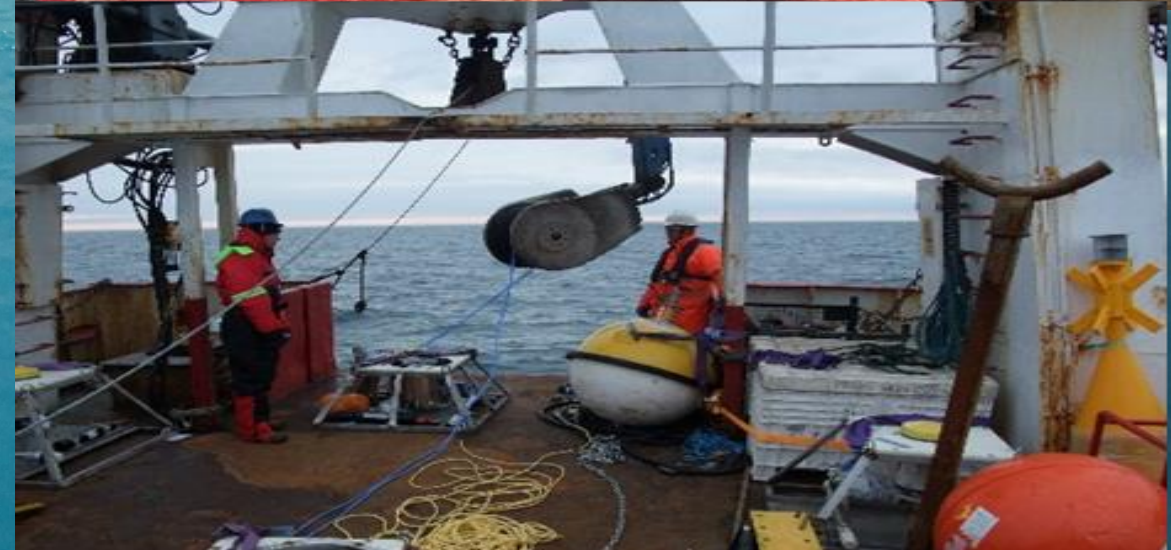


Sarah MacNab

[www.nima.blue](http://www.nima.blue)

# FISHING VESSELS JUST WANT TO FISH

- Guard / Fisheries Liaison vessels
- Survey support vessels
- Site Remediation/seabed clearance
- Environmental monitoring
- Oil spill sampling / response
- Inshore survey (ROV/AUV/Magnetometer /Grab sampling capabilities)



# FISHERS EXPERTISE

- Fisheries Liaison Officers (FLO)
- Marine Mammal Observers (MMO)
- Passive Acoustic Monitoring (PAM) Operators
- Acoustic Deterrent Device (ADD) Operators





# DECOMMISSIONING PLAN (DP) OFFSHORE WIND FARMS

- MOST IMPORTANT LESSON LEARNT FROM OIL and GAS INDUSTRY
- PART OF THE CONSENT PROCESS FOR OFFSHORE WIND PROJECTS
  - FINANCIAL ASSURANCE (PROVISION of GUARANTEES or BONDS)
  - LEGAL and REGULATORY COMPLIANCE
  - MUST COVER THE OREI and THE OFFSHORE TRANSMISSION WORKS
  - POST DECOMMISSIONING SITE MANAGEMENT (SITE RESTORATION)

LESSONS LEARNED

EARLY

MEANINGFUL

HONEST

ENGAGEMENT



# ICES WORKING GROUP ON OFFSHORE WIND DEVELOPMENT AND FISHERIES (WGOWDF)

NEW BEDFORD, MASSACHUSETTS, USA

- 40 MEMBERS OF WORKING GROUP ATTENDED IN PERSON
- REPRESENTATION FROM ALL OVER EUROPE AND THE USA
- REGULATORS, SCIENCE, DEVELOPERS AND FISHING REPRESENTATIVES
- EVERY COUNTRY HAD THE SAME CONCERNS, THE BIGGESTS CONCERNS WERE IMPACTS ON THE MARINE ENVIRONMENT AND SAFETY

INSTITUTE OF MARINE RESEARCH BERGEN

# INNOVATION

GOVERNANCE



SPATIAL  
PLANNING



SHARING  
IDEAS



CABLE BURIAL  
METHODS



WTG MOORING  
TYPES



SCIENTIFIC  
UNCERTAINTY

FISHING GEAR



FISHERIES  
MONITORING



CABLE PROTECTION



DATA  
SHARING



FISHING LANES IN FOWF



WORKING  
TOGETHER



PERHAPS THE ONLY WAY WE COULD SUCCESSFULLY CO-EXIST

# WHY IT IS CRITICAL WE GET THE CORRECT BALANCE OF MULTI USE OF THE MARINE SPACE.

- PROTECT THE OPPORTUNITIES FOR THE NEXT GENERATIONS OF FISHERS
- PROTECT THE MARINE ENVIRONMENT AND ECOSYSTEMS
- PROTECT OUR FOOD SECURITY
- IS IT ALL ABOUT CLIMATE CHANGE AND ENERGY SECURITY ? OR
- **IS IT ABOUT PROFIT**





THANKS FOR INVITING ME BACK  
AND FOR LISTENING

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