

## KEEPING OFFSHORE PROJECTS TO TIME AND BUDGET WHILST MITIGATING POTENTIAL HARM TO MARINE MAMMALS

**We combine pragmatic environmental advisory with effective co-ordination and project management to ensure that your offshore projects runs smoothly.**



### OUR SERVICES INCLUDE:

#### PRE-COMMENCEMENT

- European Protected Species risk assessments and derogation licence applications
- Identification of mitigation requirements and provision of marine mammal mitigation plans and work briefs/method statements
- Source and charter of suitable viewing vessels
- Supplying experienced and fully certified, equipped and briefed Marine Mammal Observers (MMO) and Passive Acoustic Monitoring (PAM) operators
- Sourcing and delivering appropriate PAM equipment (with necessary spares to ensure no delays)
- Setting up appropriate and functional communication plans
- Provision of appropriate health and safety documentation
- Arranging inductions for mitigation teams and inspections of viewing vessels
- Organising mitigation team and gear mobilisation to, and demobilisation from, site



**// we work pro-actively with project engineers to determine effective solutions to marine mammal mitigation //**

**JANE LANCASTER**  
PRINCIPAL MARINE ECOLOGIST

#### DURING OPERATIONS:

- 24/7 shore support
- Guidance on technical, compliance and work schedule issues
- Liaising between the client, the engineers/surveyors and the mitigation team to ensure that the service provided is appropriate, effective and compliant
- Providing relief MMOs/PAM operators
- Updating project documentation as needed
- Providing daily reports to developers/principle contractors

#### POST-COMPLETION

- Quality checks of data collected
- Production of comprehensive MMO Reports in a timely manner
- Completing (and maintaining) the Marine Noise Registry database



# MARINE MAMMAL MITIGATION CASE STUDIES

## MARINE MAMMAL MITIGATION – RAMPION OFFSHORE WIND FARM

**01** Natural Power provided 24/7 marine mammal mitigation during the piling activities for Rampion Offshore Wind Farm in the English Channel. This involved providing up to two mitigation vessels and two teams of MMOs and PAM operators for the eight month piling campaign. Visual and passive acoustic pre-work searches for marine mammals were conducted from the mitigation vessels at each of the 116 turbine foundation installations. A successful mitigation trial was also performed on board one of the piling vessels. Natural Power coordinated mitigation services and provided 24/7 support to the piling viewing and MMO/PAM operators throughout the piling campaign. Natural Power also collated piling reports and deck forms into a comprehensive report to fulfil the marine licence condition.



## MARINE MAMMAL SUPPORT AND MITIGATION – CAITHNESS TO MORAY HVDC INTERCONNECTOR (NKT, FORMALLY ABB)

**02** Natural Power is providing extensive marine mammal support for the Caithness to Moray HVDC Interconnector project including mitigation for geotechnical and geophysical surveys and the cable installation operations. We have undertaken European Protected Species risk assessments for multiple activities, provided documentation for submission to Marine Scotland's Licensing and Operations Team, and produced a comprehensive marine mammal protection plan for the project as a whole. Visual and passive acoustic pre-work searches for marine mammals have been conducted by mitigation teams comprising experienced MMOs and PAM operators either working on board noise-source vessels or based on separate viewing vessels for nearshore work. Shore-based MMO watches have also been conducted prior to horizontal directional drilling work from land to sub-sea pop out locations.



[annas@naturalpower.com](mailto:annas@naturalpower.com)

**ANNA SWEENEY**

MARINE MAMMAL MITIGATION COORDINATOR



[janel@naturalpower.com](mailto:janel@naturalpower.com)

**JANE LANCASTER**

PRINCIPAL MARINE ECOLOGIST

FOR FULL DETAILS ON OUR ISO AND OTHER CERTIFICATIONS, PLEASE VISIT:  
[naturalpower.com/company](https://www.naturalpower.com/company)

[naturalpower.com](https://www.naturalpower.com)

[sayhello@naturalpower.com](mailto:sayhello@naturalpower.com)

No part of this document or translations of it may be reproduced or transmitted in any form or by any means, electronic or mechanical including photocopying, recording or any other information storage and retrieval system, without prior permission in writing from Natural Power. All facts and figures correct at time of print. All rights reserved. © Copyright 2018.

