

Day 1 - Tuesday 27 August

08:00 - 09:00 Coffees/registration - **WINDOW ON THE WALLACE/HOTEL RECEPTION**

09:00 - 10:30 **OPENING SESSION - LOGIE LECTURE THEATRE**

Welcome and introduction - **Colin Galbraith**
Minister for Energy, Connectivity and the Islands - **Paul Wheelhouse**
Jeremy Sainsbury, Natural Power; **Francesca Osowska**, SNH; **Eva Phillip**,
Vattenfall; and **Anne McCall**, RSPB
Summary - **Colin Galbraith**

10:30 - 11:15 Coffees - **BLAIR/ATHOLL ROOMS**

11:15 - 12:45 **TALK SESSION 1 - up to 15 minutes each**

	Species specific issues LOGIE LECTURE THEATRE	Population level and ecosystems WALLACE/MONUMENT ROOMS
11:15	Avoidance behaviour of large-bodied birds to 222m high turbines - joint talk by Thorsten J.S. Balsby and Ole Roland Therkildsen	Seabird populations: untangling their hidden dynamics and quantifying consequences for assessment - Julie Miller
11:30	Response of satellite tagged golden eagles to wind farms - Alan Fielding	Best practices for use of PVA in forecasting seabird population trajectories in the face of sparse data: a comparison of methods - Kate Searle
11:45	Displacement starts during construction of an offshore wind farm - Andrew Harwood	Developing and testing frameworks for assessing impacts of offshore wind farm construction on harbour seal populations - Paul Thompson
12:00	Changes in harbour seal behaviour in response to offshore wind farm construction noise - Katherine Whyte	A tool for using PVA to assess impacts of anthropogenic change on demographic rates and population forecasts - Adam Butler
12:15	Adding another dimension to species risk assessments -seabirds - Saskia Wischniewski	Wind-turbine noise drastically alters songbirds' behaviour and community assemblage in a natural environment - Yael Lehnardt
12:30	Reducing uncertainty in seabird displacement at offshore wind farms - Mark Trinder	Demographic impact of avian fatalities at wind energy facilities - Tara Conkling

12:45 - 13:45 **Lunch - ABBEY CRAIG RESTAURANT**

13:45 - 15:30	WORKSHOP SESSION 1 (1h 45mins each):	or: ROBIN RADAR DEMONSTRATION
Offshore collision risk modelling workshop - Ross McGregor HERMITAGE Marine biodiversity enhancement of offshore wind farms: options and challenges - Tom van der Have IONA Offshore wind and bats - Robin Cox LOMOND Habitat restoration - SNH MULL		An opportunity to see how the Robin Radar system works. Visit the Robin Radar stand in Blair/Atholl for more information.

15:30 - 16:00 Coffees - **BLAIR/ATHOLL ROOMS**

16:00 - 17:30		
TALK SESSION 2 - up to 15 minutes each		
	Species specific issues LOGIE LECTURE THEATRE	Population level and ecosystems WALLACE/MONUMENT ROOMS
16:00	Challenges and opportunities of long-term species monitoring - Claudia Garratt	Development of a tool to estimate sensitivities of seabirds to offshore renewable energy developments in Scottish waters - Francis Daunt
16:15	Wolves avoid high concentrations of wind turbines - Emma Dennehy	Review of the potential of UK seabird colony monitoring to inform monitoring programmes for consented offshore wind farms - Liz Humphreys
16:30	Influence of landscape and time of year on bat-wind turbine collisions - Charlotte Roemer	A North Sea-wide assessment of offshore wind-related habitat loss on seabird populations - Tobias van Kooten
16:45	Anthropogenic electromagnetic fields (EMF) influence on marine species - Zoe Hutchison	Landscape-scale approaches and biodiversity banking in impact mitigation - Marie Grimm
17:00	Predicting and mitigating impacts of construction on harbour porpoises - Isla Margaret Graham	Does high mortality at wind farms really mean high impact? A framework shift to reduce uncertainty and better determine impacts - Paulo Cardoso
17:15		A risk-based approach for addressing wind and wildlife interactions using ecosystem based management values - Andrea Copping

17:30 - 18:00 Poster mini talks - **FINTRY/ERSKINE AND DOLLAR/CALLANDER**

18:00 - 19:00 Poster viewing, Vattenfall presentations (see p7) and drinks reception

18:05 - 19:00	
VATTENFALL PRESENTATIONS - SILVER GLEN	
18:05	EOWDC - Dolphins, understanding Scottish east coast bottlenose dolphin population movements - Ursula Verfuss/SMRU Ltd
18:25	EOWDC - Auks, understanding movements of UK razorbills and guillemots in the non-breeding season - Bob Furness/MacArthur Green, Lila Buckingham/CEH
18:45	EOWDC - BCA, documenting avoidance behaviour of seabirds to wind turbines during the breeding season at AOWFL - Mike Armitage/RPS, Henrik Skov/DHI

Day 2 - Wednesday 28 August

08:00 - 09:00 Coffees - BLAIR/ATHOLL ROOMS

09:00 - 09:45 PLENARY 1: Towards a Social-Technical-Ecological system approach (STES) in WP-planning - Frank Hanssen - LOGIE LECTURE THEATRE

10:00 - 10:45 TALK SESSION 3 - up to 15 minutes each

	Cumulative impacts LOGIE LECTURE THEATRE	Wind and wildlife in practice WALLACE/MONUMENT ROOMS
10:00	Together we can do so much: cumulative impacts of offshore wind farms on seabird populations - Lucy Wright	Bat mortality monitoring at a UK windfarm site and dealing with new guidance, thresholds and mitigation - Robin Cox
10:15	WindChoir: a tool for representing cumulative environmental effects - Sverker Molander	Lessons learned: monitoring potential impacts of America's first offshore wind farm on fish and invertebrates - Drew Carey
10:30	Can we site wind facilities to reduce landscape change and habitat fragmentation? - Jay Diffendorfer	Vantage Point (VP) biases during pre-construction monitoring: the observer effect and the VP radius - Alvaro Camina

10:45 - 11:15 Coffees - BLAIR/ATHOLL ROOMS

11:15 - 12:45 TALK SESSION 4 - up to 15 minutes each

	Cumulative impacts LOGIE LECTURE THEATRE	Wind and wildlife in practice WALLACE/MONUMENT ROOMS
11:15	How are species and impacts scoped into cumulative effects assessments for offshore wind farms? - Rebecca Hall	Achieving net gain for vultures at a proposed Kenyan wind energy project - David Wilson
11:30	Evidence of absence regression: a binomial N-mixture model for estimating bird and bat fatalities - Trent McDonald	Red kite (<i>Milvus milvus</i>) movement patterns and interactions with wind farms in the north of Scotland - Ian Hulbert
11:45	Expanding availability of confidential data to evaluate bird and bat collision risk - John Lloyd	Communications needed for successful technology testing at a wind facility - Laura Nagy
12:00	Towards a common environmental assessment framework (CEAF) for assessing cumulative effects - Rob Gerits	Foraging range and distribution of lesser black-backed gulls across multiple breeding colonies - Elsbeth Sage
12:15	Disturbance or flexibility to wind farm development, prioritising threats to the Verreault's eagle in South Africa - Alvaro Camina	Is using collision risk models a reasonable approach to predict fatalities for collision risk assessments in EIA? - Sandra Rodrigues
12:30	Modelling key factors of nightjar avoidance behaviour at wind farms across Europe - Andreas Traxler	Bats and windfarms, and lessons from Europe and Western Palearctic - Fiona Mathews

12:45 - 13:45 Lunch - ABBEY CRAIG RESTAURANT

13:45 - 14:30 TALK SESSION 5 - up to 15 minutes each		
	Cumulative impacts LOGIE LECTURE THEATRE	Wind and wildlife in practice WALLACE/MONUMENT ROOMS
13:45	Overlap between wind power plants and breeding sites of birds of prey on the island of Crete (Greece) - Dr Stavros Xirouchakis	Is carcass searching for bats at operational wind farms useful? - Jonathan Aronson
14:00	MARLIN and a large-scale/high resolution information system for marine biological data - Gregor von Halem & Ramona Beckmann	Results of carcass searching at operational wind farms using trained detection dogs in the Republic of Ireland - Chris Cullen
14:15	Substantial effects of offshore wind farms on divers - Henriette Schwemmer	Counting the living: a collaborative effort to combat bird and bat impacts - Emma Bennett

14:30 - 16:00 WORKSHOP SESSION 2 (1h 30mins each, this session may run into the coffee break):		or: ROBIN RADAR DEMONSTRATION
	Wind-wildlife technology workshop: considerations for integration at operational wind farms and lessons learned from wind farm operators, turbine OEMs, and technology developers - Laura Nagy HERMITAGE	An opportunity to see how the Robin Radar system works. Visit the Robin Radar stand in Blair/Atholl for more information.
	Measuring the impacts of offshore wind energy developments on abundance and distribution of seabirds: current challenges and future directions - Gillian Vallejo IONA	
	Standardisation of collision mortality data for birds and bats, and towards the creation of a global database - Noa Steiner LOMOND	
	Habitat restoration - SNH MULL	

15:30 - 16:00	Coffees - BLAIR/ATHOLL ROOMS
16:00 - 16:45	PLENARY 2: Overview of issues: terrestrial - Roel May - LOGIE LECTURE TH.
16:45 - 17:30	PLENARY 3: Overview of issues: marine - Martin Perrow - LOGIE LECTURE TH.
17:30 - 18:30	Poster viewing and Vattenfall presentations (see p11)
	or: ROBIN RADAR DEMONSTRATION
	A second opportunity today, as above.

19:00 - 00:00	Conference Dinner - ABBEY CRAIG RESTAURANT
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17:40 - 18:30 VATTENFALL PRESENTATIONS - SILVER GLEN	
17:40 - 17:55	OWSMRF - UK industry-led vehicle for identifying knowledge gaps and research opportunities in close collaboration with stakeholders - Sue O'Brien/JNCC
17:55 - 18:10	Red-throated diver energetics project - international collaborative project involving industry, government, JNCC, researchers and local ringing groups - Sue O'Brien/JNCC
18:15 - 18:30	NERC CASE PhD studentship (Vattenfall partner) on improving gannet population modelling in the context of wind farm impacts - Chris Pollock/Leeds Uni

Day 3 - Thursday 29 August

08:00 - 09:00 Coffees - **BLAIR/ATHOLL ROOMS**

09:00 - 09:50 **PLENARY PANEL SESSION 1: Developing markets - LOGIE LECTURE THEATRE**

09:55 - 10:45 **TALK SESSION 6 - up to 15 minutes each**

	Mitigation, habitat management and wildlife challenges LOGIE LECTURE THEATRE	Reducing uncertainty and looking forward WALLACE/MONUMENT ROOMS
09:55	Habitat management: wind farms and the Iberian wolf in Portugal - Gonçalo Brotas	Insights into age-specific gannet distribution from aerial surveys and tracking - Chris Pollock
10:00	Unmanned aerial systems and automated photo recognition method for eagle carcass detection at wind farms - David Young	Validation and performance testing of a laser rangefinder for estimating avian flight in 3D - Nicola Largey
10:15	Review of noise abatement systems for piling noise and the potential for their application in Scottish waters - Ursula Verfuss	For the avoidance of doubt: avoidance rates and the precautionary principle - Aly McCluskie
10:30	Evaluation of bird detection efficiency of ProBird: tracking missed detection and false positives - Hubert Lagrange	Using a landscape scale GPS-tracking study to avoid and minimise wind farm related impacts on Brolga (<i>Antigone rubicunda</i>) - Inka Veltheim

10:45 - 11:15 Coffees - **BLAIR/ATHOLL ROOMS**

11:15 - 12:45 **TALK SESSION 7 - up to 15 minutes each**

	Mitigation, habitat management and wildlife challenges LOGIE LECTURE THEATRE	Reducing uncertainty and looking forward WALLACE/MONUMENT ROOMS
11:15	Limitations of acoustic bat deterrents - Christine Sutter	Understanding seabird behaviour at sea in order to better assess the environmental impact of offshore wind farms - Aonghais Cook
11:30	Obstacles and solutions on the way to a countrywide mitigation standard: five years of ProBat - Oliver Behr	A coordinated approach to marine renewable energy research in Scotland - Janelle Braithwaite
11:45	Via Pontica and an integrated bird protection system - Pavel Zehindjiev	Combining telemetry and vantage point observations to investigate habitat preferences of soaring birds - Francisco Cervantes Peralta
12:00	Early detection system for bird monitoring in wind farms in the Isthmus of Tehuantepec, Mexico - Rafael Villegas	LiDAR as a tool for estimating seabird flight heights - Robin Ward
12:15	Studying the flight behaviour of migrating birds with a full 3D bird radar to develop a predictive shutdown-model - Jonne Kleyheeg-Hartman	The environmental and fisheries technical working groups: stakeholder engagement on offshore wind for New York state - Kate Williams
12:30		It's not easy being green! Does wind energy constitute a wicked socio-ecological problem? - Juliane Biehl

12:45 - 13:45 **Lunch - ABBEY CRAIG RESTAURANT**

13:45 - 15:40 TALK SESSION 8 - up to 15 minutes each		
	Mitigation, habitat management and wildlife challenges LOGIE LECTURE THEATRE	Reducing uncertainty and looking forward WALLACE/MONUMENT ROOMS
13:45	Developing apportioning approaches for gulls which are at risk of collision from both onshore and offshore wind - Lucy Quinn	Wind power and vultures in Africa: a new threat? - Hanneline Smit-Robinson
13:50	Catalogue of nature inclusive design solutions - Ivana Prusina	Challenges to mitigating wind energy impacts on bats in the tropics and sub-tropics - Cheryl Ng
14:05	The German registry of underwater sound and monitoring, and assessment in regard of technical sound mitigation - Carina Juretzek	A sensitivity analysis of wind power and biodiversity in Kenya - Tris Allinson
14:20	Upgrades in offshore bird monitoring: from DTBirdV4 at Fino 1 to DTBirdV8N2 at Kincardine wind farm - Agustín Riopérez	Is the focus on raptors and migratory species at wind farms justified? The diversity of birds killed by collisions in S. Africa - Samantha Ralston-Paton
14:35	Global impacts of renewable energy on birds and mammals - James Pearce-Higgins	Wind power planning with a multicriteria approach: integrating biodiversity and ecosystem services in the Rewind-GIS tool - Ulla Mörtberg
14:50	Migrating bats at the North Sea - Sander Lagerveld	Behavioural variables of lesser black-backed gulls and herring gulls in and around offshore wind farms - Abel Gyimesi
15:05	How to assess the ecological cost/benefit of future climate vs very large-scale renewable developments? - Beth Scott	Long-term tracking of lesser black-backed gulls: how GPS telemetry is being used to improve estimation of collisions - Chris Thaxter
15:20	Harnessing people's energy for better wind farm planning: the convention on migratory species energy task force - Noa Steiner	Three months of bat monitoring by radar around three wind farms in north Herault (France) - Hubert Lagrange
15:35	Experimental approach towards the understanding of food web interactions in an offshore wind farm environment - Helena Voet	Within and beyond the turbines: life cycle assessment - Richard Hall
15:40 - 16:00 Coffees - BLAIR/ATHOLL ROOMS		
16:00 - 17:00 PLENARY PANEL SESSION 2: Key issues and priorities for the future - LOGIE LEC. TH.		
17:00 - 17:30 Closing session - LOGIE LECTURE THEATRE		