27/01/2015



MINUTES

Date:

Attendees: Ed Rollings (ER) MeyGen

Prof. Ian Bryden (IB) Chairman – UHI

Joao Queiros (JQ) MSLOT Nicola Bain (NB) MSLOT Finley Bennett (FB) MS Science

Billy Harris (BH) MSLOT Ross Gardiner (RG) MSS Chris Eastham (CE) SNH Erica Knott (EK) SNH Toby Gethin (TG) TCE Carol Sparling (CS) SMRU

Chaired by: Prof. Ian Bryden Time: 10:00

Apologies Kate Brookes (MSS) Location: Conference Call

Jaren Wilson (MSS) Ian Davies (MSS) Roger May (MS) Ian Walker (MS) George Lees (SNH)

SUBJECT: MeyGen Advisory Group (AG) Meeting 4

Agenda

No.	Subject	Time (min)
1	Project Update	10
2	KTP Workplan	30
3	Demonstration Strategy – Carol Sparling	20
4	KTP / Demonstration Strategy interaction	20
5	Environmental Management Plan and other consenting requirements	20
6	AOB	



No.	Subject	Action
1	Project Update	
1.1	ER update on MeyGen Phase 1a since previous meeting (March 2014)	
1.2	Phase 1a funding secured in September 2014. A total of £51.3 million has been secured from syndicate	
	members comprising the UK government, through the Department of Energy and Climate Change	
	("DECC"), Scottish Enterprise, Highlands and Islands Enterprise ("HIE"), The Crown Estate ("TCE") and	
	Atlantis Resource Ltd.	
1.3	Construction and supply contracts signed with ABB (electrical and civil infrastructure), O'Connor	
	Utilities (Drilling), Fisher Marine Services (offshore installation), JDR (cables), Global Energy (foundation	
	structure), JGC (foundation ballast), Atlantis Resources Ltd. (1 x turbine) & Andritz Hydro Hammerfest	
	(3 x turbines).	
1.4	Programme; onshore works have commenced. Drilling to commence in March 2015 to allow cable	
	installation (longest marine activity) in summer neap windows. Foundations installed following cables.	
	2 turbines ready to install in March 2016, further 2 in August 2016.	
2	KTP Workplan	
2.1	KTP was applied for following the financing of Phase 1a, and awarded in November 2014. Benjamin will	
	start work on 1 st February 2015. Benjamin Williamson effectively becomes a MeyGen employee and	
	the technical lead for the monitoring programme.	
2.2	Discussion around how the KTP will interact with the AG concluded that regular updates from	
	Benjamin (presentations and papers) will be necessary for the AG to check and evaluate progress.	
2.3	AG meetings to move to quarterly.	
2.4	ACTION – ER to produce organogram for reporting monitoring programme. Linked to how all	
	reporting on consent conditions are conducted and the role of the ECoW and KTP structure with SG	
	Demonstration Project	
2.5	ACTION - ALL to review AG ToR to check they are still fit for purpose as we move into the next stage	
	of monitoring development.	
2.6	Walk through KTP workplan. Noted that the workplan and programme was submitted in August for the	
	KTP application. It requires updating to meet the needs of the monitoring programme (critically,	
	testing in the summer 2015).	
2.7	ACTION – IB to talk to EMEC regarding their monitoring pod and potential linkages with the KTP and	
	Demonstration Strategy.	
2.8	ACTION – TG to contact John Hartley to open dialogue on possible DECC/SEA funding opportunities	
	for a 2 nd monitoring platform.	
2.9	ACTION – ER to distribute the revised workplan and programme to the AG (should be complete in 2	
	weeks)	
3	Demonstration Strategy – Carol Sparling	
3.1	Project has completed Task 1: Platform and sensor review	
3.2	Task 1 identifies a cabled solution with active sonar, passive acoustics and video camera. Working with	
	MeyGen to understand technical issues with power, data and installation and recovery.	
3.3	Working towards a modular design just that systems can be deployed individually or daisy chained	
	together. The approach allows for separation between passive acoustic units to give bearing and range	
	for a sound source (vocalizing cetacean or tagged receptor).	
3.4	Currently continuing system design and bench testing sensors (Q1/Q2 2015)	
3.5	Coordinate field testing with MeyGen monitoring programme (Q2/Q3 2015). It is likely that some field	
-	testing will need to be done at other locations, rather than the Inner Sound. Sites with higher densities	
	of target receptors including the possibility of fish farms for salmon.	
3.6	Q3/Q4 analysis of results and reporting. The project is due to finish Q4 2015, but the original plan was	
	to test the system with an operating turbine. Given the current project programmes the earliest would	
	be March 2015 with MeyGen. It is likely that a 2 nd project will carry on the work here into deploying	
	with operating turbines.	
3.7	Discussion regarding how AG interacts with Demonstration Strategy. Concluded that it would be good	
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	if the AG could get the DS reporting and outputs. Project level interactions to be continued between		
	MeyGen and SMRU to maximise the value of both projects and limit duplication. There will hopefully		
	not be a situation where there is a need for arbitration between the 2 projects but it would require		
	MSLOT / MSS to seek an appropriate way forward.		
3.8	ACTION - CS to share the Task 1 report and future reports with AG.		
3.9	ACTION - ER to share AG minutes with Demonstration Strategy.		
3.10	ACTION - ER/CS/Benjamin Williamson to develop collaboration between the projects over the next		
	few months.		
4	KTP / Demonstration Strategy interaction		
4.1	Included in agenda item 3		
5	Environmental Management Plan and other consenting requirements		
5.1	MeyGen has agreed with MSLOT a process for discharging the conditions required for construction to		
	commence. Agreed that separate submissions of documents for the HDD marine works and the rest of		
	the construction activities.		
5.2	EMP, Construction Method Statement et al for the HDD marine works are due to be completed this		
	week and submitted next week to MSLOT.		
5.3	MSLOT are currently looking at 10-12 week turn around for consenting documents.		
5.4	Ecological Clerk of Works (ECoW) role needs to be filled and approved by MSLOT. MSLOT are able to		
	provide criteria and CVs from MORL, however the role should be considered against the size of the		
	project and needs to be clear to ensure that reporting does not burden the project and stakeholders.		
	ACTION – ER to discuss EMPs, ECoW with NB and CE		
6	AOB		
6.1	Date of next meeting. Early April. Doodle poll for w/c 30-MAR w/c 06-APR w/c 13-APR		
6.2	ACTION – JQ to set up doodle poll		
6.3	RG – important to keep Salmon high on the monitoring agenda. Previous discussions had included CFD		
	analysis, deployment of dummy fish (Didson camera) with operating turbine and improving the		
	collision models (currently under review with SNH - Bill Band). CS – note that the DS project hopes to		
	ground truth sonar detections at fish farms over the summer.		
6.4	CE – would be good to get an update on other recommendations of the steering report at the next		
	meeting, e.g. pinger tags, stranding scheme (SNH have a tender in for funding which may or may not		
	be applicable) and haul out counts.		
6.5	CS – Understood that Jared Wilson was looking at studentship with tagging seabirds (possibly through		
	MASTS)		
6.6	ACTION – ER to update AG on other monitoring recommendations		

ACTION REGISTER

No.	Action	Responsibility	Complete
1	ACTION – ER to produce organogram for reporting monitoring	ER	
	programme. Linked to how all reporting on consent conditions are		
	conducted and the role of the ECoW and KTP structure with SG		
	Demonstration Project		
2	ACTION - ALL to review AG ToR to check they are still fit for purpose as we	ALL	
	move into the next stage of monitoring development.		
3	ACTION – IB to talk to EMEC regarding their monitoring pod and potential	IB	
	linkages with the KTP and Demonstration Strategy.		
4	ACTION – TG to contact John Hartley to open dialogue on possible	TG	Complete
	DECC/SEA funding opportunities for a 2 nd monitoring platform.		
5	ACTION – ER to distribute the revised workplan and programme to the AG	ER	_
	(should be complete in 2 weeks)		
6	ACTION - CS to share the Task 1 report and future reports with AG.	CS	
7	ACTION - ER to share AG minutes with Demonstration Strategy.	ER	•



8	ACTION - ER/CS/Benjamin Wiliamson to develop collaboration between	ER/CS	
	the projects over the next few months.		
9	ACTION – ER to discuss EMPs, ECoW with NB and CE	ER	
10	ACTION – JQ to set up doodle poll	JQ	Complete
10	ACTION – ER to update AG on other monitoring recommendations	ER	