



**AGM and Small-scale Energy Storage
12:30-14:00, Thursday 26 September
Committee Room 4, Scottish Parliament
Chair: Sarah Boyack MSP**

1. Attendees and Meeting Note

A provisional list of attendees is attached to the end of this meeting note. If you attended and are not shown on the list, please email Gavin Donoghue (gdonoghue@scottishrenewables.com).

Please note this note is not intended to be a verbatim account of the meeting

2. Introduction by Chair and approval of minutes from last meeting

Sarah Boyack MSP welcomed everyone to the meeting and put forward the minutes of the previous meeting, held on 13 June, that had been sent out to the group in advance. The minutes were moved by Bill Rodger and seconded by Neil Phillips.

3. AGM Business: Election of Group Officers

Sarah Boyack MSP then reminded the group that, with the notice of the AGM that was emailed to group members on 19 August, was information setting out the candidates for the group office bearer roles of Conveners (x2 positions); Deputy Conveners (x2 positions); Secretary (Renewable Energy); Secretary (Energy Efficiency) and Treasurer.

By the deadline for nominations of 19 September the nominations had been as follows:

Conveners (x2 positions):

- Sarah Boyack MSP
- Jim Eadie MSP

Deputy Conveners (x2 positions):

- Liam McArthur MSP
- Jamie McGrigor MSP

Secretary (Renewable Energy) and Treasurer

- Gavin Donoghue, Scottish Renewables

Secretary (Energy Efficiency)

- Elizabeth Leighton, Energy Saving Trust

As no one else had put themselves forward for nomination, and these nominations filled the required number of posts, there was no need for an election.

The nominations for group officers were then moved by Hanzala Malik MSP and seconded by Mike Mackenzie MSP.

4. AGM Business: Approval of Annual Return

Sarah Boyack MSP then moved on to discuss the Annual Return, emailed to group members on 19 September, setting out the group's activities over the previous year and the financial benefits received from the Energy Saving Trust and Scottish Renewables.

Ms Boyack pointed out that this year's Annual Return included, within the definition of financial benefits received by the group, the staff time and travel costs of the Energy Saving Trust and

Scottish Renewables for having staff members act as secretaries for the group. She stated it was hoped this more accurately reflected the costs to these two organisations and, therefore, the financial benefit the group received from them.

Ms Boyack asked the group if there were any comments on the Annual Return and there were none. The Annual Return was then moved by Neil Philips and seconded by Bill Rodger.

5. AGM Business: Discussion of future work programme

Ms Boyack mentioned there had been some ideas already emailed to the Secretariat in advance of the meeting, below, and then opened up discussions of potential topics of future meetings to the group.

Some ideas suggested via email were:

- Water and energy efficiency
- Community Benefit funds
- Small businesses and energy efficiency
- Local Authority renewable energy partnership models
- European policy and implications for energy efficiency and renewables
- Energy efficiency and renewables' wider impact on economy
- Renewable heat
- Market transformation - how energy efficiency is valued in the property market

Ideas suggested by the group at the meeting were:

- **Paolo Buoni, European Energy Centre**, said he would be happy to talk to the group about education and skills-sharing at a European level
- **Jamie McGrigor MSP** said he would like to see a talk on heat pumps and their use by rural communities
- **Bill Rodger** asked about a session on off-grid solutions
- **Alex Hill, Met Office**, wanted a session on the planning process and how it should be made as efficient as possible
- **Mike Mackenzie MSP**, proposed a session on new building standards for energy efficiency and the Sullivan Report
 - **Neil Philips** mentioned it would be out in November 2013.
- **Tariq Muneer, Napier University**, suggested a topic of large-scale solar panels and the work of Scottish universities in this area
- **Geoff Duke, Scottish Cities Alliance**, advocated a session on green hydrogen and fuel cells
- **John Taylor, National Grid**, offered for National Grid to deliver a talk to the group on Future Energy Scenarios

6. Presentation: Small-scale energy storage by Prof. Ian Arbon, EngineeredSolutions

Professor Ian Arbon delivered a presentation on small-scale energy storage for electricity and heat on behalf of the Institute of Mechanical Engineers (IMechE) - Presentation available on request by emailing gdonoghue@scottishrenewables.com.

7. Presentation: Small-scale energy storage by Andrew Bissell, Sunamp

Andrew Bissell delivered a presentation on the small-scale energy storage technology that his company, Sunamp, is currently piloting - Presentation available on request by emailing gdonoghue@scottishrenewables.com.

8. Question and Answer

Questions posed to Ian and Andrew came from:

- **Jamie McGrigor MSP** asked whether air or water-based heat pumps were more efficient
- **Sarah Boyack MSP** raised the issue of the cost and affordability of heat storage technologies
- **Graham Lang, Scotland Against Spin**, asked whether storage technologies were needed because of the intermittent nature of renewable energy technologies
- **Dr Nick Kelly, University of Strathclyde**, asked about tariff differentials and the relationship with storage
- **Peter Roche**, asked about the impact of combined heat and power on dealing with intermittency and the levels of heat storage in Germany and Denmark
- **Bill Rodger** asked about the interplay between storage and building standards
- **Liam McArthur MSP** asked what measures the Scottish Government and Parliament can take to support the uptake of storage technologies
- **Jamie McGrigor MSP** asked about developments in liquid air as a energy storage technology

9. Ms Boyack then asked attendees to email the Secretariat, Gavin Donoghue (gdonoghue@scottishrenewables.com), if they attended the meeting but were not on the list of attendees

8. AOB

For suggestions of correction to this meeting note and requests for copies of the presentations, please contact Gavin Donoghue (gdonoghue@scottishrenewables.com),

Attendees

Surname	First Name	Organisation
Anderson	Neil	Ledingham Chalmers
Arbon	Ian	EngineeredSolutions
Bissell	Andrew	Sunamp
Boyack	Sarah	MSP
Bradford	Raemon	
Brunton	Tony	Association of Registered Gas Installers
Buettner	Stefan	Office of David Torrance MSP
Buoni	Paolo	EU Energy Centre
Campbell	Colin	Currie & Brown UK Ltd
Chisholm	Ian	Councillor
Coltart	George	
Donoghue	Gavin	Scottish Renewables
Duke	Geoff	Scottish Cities Alliance
Gill	Paul	ESS Ecology
Goodburn	Rob	goodburn baillie (architecture) Ltd
Gray	Anne	Scottish Land & Estates
Gunn	Dave	Edinburgh Centre for Carbon Innovation
Harvie	Patrick	MSP
Hill	Alex	Met Office
Jakobsen	Kris	Spark Energy
Jones	Christine	
Kelly	Nick	University of Strathclyde
Kyriakides	Anthony	EST
Lang	Graham	
Lang	Graham	
Laurenson	Neil	REpower UK Ltd
Leighton	Elizabeth	EST
Lilley	Scott	
Lindsay	Ian	eurowind UK Ltd
Low	Ragne	ClimateXChange
Mackenzie	Mike	MSP
Maclean	John	
Maddox	Edward	
Malik	Hanzala	MSP Associate of District Energy Development Ltd
Martin	Mike	Ltd
Matthews	Phil	CAG Consultants
McArthur	Liam	MSP
McGovern	Annie	Consumer Futures
McGrigor	Jamie	MSP
McIntosh	Dory	iPower Energy Ltd
McKinney	John	NSCC
Morrice	Beatrice	Scotch Whisky Association
Muneer	Tariq	
Noone	Veronica	Scottish Enterprise

Phare	Paul	
Philips	Neil	Positive Solutions
Porter	Hannah	EU Energy Centre
Rafferty	Neal	Scottish Government
Roche	Pete	
Rodger	Bill	
Shadburn	David	Office of David Torrance MSP
Slipper	Clare	MHP Communications
Stiven	Roland	
Sutton	Will	
Taylor	John	
Thornton	Mike	EST
Tinch	Elena	Scottish Enterprise
Trafton	Fiona	Office of Sarah Boyack MSP
Truswell	Barry	Scott-Moncrieff
Warner	Karen	Arup
Wedgwood	Paul	Carbon Trust Scotland
Winkel	Mark	UK Energy Research Centre

