

IMAGES - Integrated, Market-fit and Affordable Grid-Scale Energy Storage

10th Project Management Team (PMT) Meeting

Minutes

Date and time: 15:15, 20th January 2016

Venue: **British Geological Survey**, Nicker Hill, Keyworth, NG12 5GG, UK

1. Attendances:

Jihong Wang, David Evans, Jonathan Busby, Tony Milodowski, Seamus Garvey, Robert MacKay, Murray Thomson, Philip Eames, Jacek Wojcik.

Apologies:

Mike Waterson, Monica Giulietti, Phil Mawby, Richard Critoph,

2. Update of recruitment and staffing

- Seamus is recruiting the new Research Fellow. He has offered the position to the best candidate and waiting for feedback.
Action: Seamus to carry on with recruitment procedure.
- Lisa is going for maternity leave from 10th March 2016.
Action: Robert and Jihong to investigate the finance and have a separate discussion.
- Murray reported that funding for John Burton is sets to run out in June 2016.
Action: Murry to prepare a case for John's extension.
- Jihong reported that Xing is going to be promoted, there will be a possible position for RA in the School of Engineering at UoW.

3. Recap of the project progress meeting and review project work plan

- a) Jihong asked about the last project progress meeting and any changes in the work plan as nothing was reported in minutes from last meeting. Seamus mentioned that no discussions took place as the only one EAG person was Bryony Lesley. Seamus proposed to carry on with current research and make effort for joint publications. Phil proposed to publish an article about energy storage technology costs which could be a highly cited position (WP1.4). Jihong proposed a separate meeting between Warwick and BGS to speed up work on WP1.4. This will be included on agenda for the next 4 months meeting. Jihong mentioned also about further work on grid code study in collaboration with John. David proposed to assess economical limitations for energy storage connection to the grid based on GIS software and in collaboration with Economics team.
Action: All to work on joint papers between project participants.

4. Review of project finance

- b) Jihong reported about spare money for all project participants for international collaborations, which can be spent. Seamus pointed out that it is necessary to have a plan and make sure that we can spend all the money in the most productive way. Good example could be to bring international people for joint publications. Jihong mentioned about ongoing Warwick-China collaboration on Simulink toolbox development. Phil suggested India as potential really good direction for collaboration in energy storage research.

- c) Jihong reported money for collaboration, workshops, promotional materials, website development, training courses, open access publications, data acquisition. The timeframe for spending money is about two years (including 6 months project extension).
- d) Jihong mentioned that we overspent on some accounts so it is necessary to transfer money to those accounts and then to start spending rest of the money.
Action: Jihong to identify all remaining money to spend and then to establish if this budget is flexible.
- e) David indicated that some of the money for website development could be used to help with GIS software running on the project website.
Action: David to find out the estimated costs etc.
- f) It could be also good to have this website available after the project is completed.
Action: Jacek to investigate the costs.
- g) Phil suggested to use the money not only for the current project promotion but also to extend collaboration for future possible projects.
Action: All – to circulate any interesting idea between PMT members how this money could be spent.
- h) Jihong is planning to organise workshops on energy storage modelling and simulations, thermal storage workshop, and activities and trainings – need to plan it.

5. Report from each PMT members for publications, events, presentation, seminars, workshops, etc. (update actions for Impact)

- Some of 4-month reports have been submitted.
Action: Jacek – to collect all remaining reports

6. Project extension for next 6 months

- General agreement between PMT members – no objection to extend projects for additional 6 months.

7. Discussion on joint research activities

- Seamus proposed organising an event/discussion/workshop about CAES future in the UK and invite people from Gaelectric etc. London could be good location (possible location: the Shard).
Action: Seamus and David – to start planning to organise the event, Jihong – to find out Shard availability.
- Animations – David proposed an animation about salt cavern formation etc.
- Wind speed data across UK for GIS map
Action: Jacek – try to find out the access. Also to send GIS transmission system data to David. Murray – to help with access to wind satellite data.
- GIES (Generation Integrated Energy Storage) on animation
Action: Jacek – to coordinate between Seamus and Russell from 16facets.

8. Actions for impact plan implementation

- Mainly covered in point 7.
- To organise a trip to some ES facilities.
Action: Jacek to coordinate with Phil and David.

9. New funding and funding opportunities

- Seamus is involved in WESI project – just kicked off.
- Phil has a new funding with UoW – regarding hot water.
- Jihong and Murray involved in UK-India Energy Research Centre.
- New Grand Challenge Proposal – Seamus participated.
- Jihong mentioned about new UKERC Energy Storage

10. Date and venue of next meeting

Loughborough University in May 2016.

Action: Jacek to send a doodle poll.

11. AOB