

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

12th Project Management Team (PMT) Meeting

Minutes

Date and time: 12:00, 26th Oct 2016

Venue: via Skype

1. Attendances:

Jihong Wang, David Evans, Jonathan Busby, Mike Waterson, Seamus Garvey, Murray Thomson, Philip Eames, Jacek Wojcik

Apologies:

Monica Giulietti, Robert MacKay, Phil Mawby, Richard Critoph

2. Update of recruitment and staffing

- Nottingham: Seamus recruited a new PhD student (working at EDF on CAES).
- Warwick Engineering:
 - Christopher Krupke has graduated and left the project. Another PhD student is waiting for a scholarship.
 - Xing Luo started his Senior Research Fellow position from 1st Oct 2016. Hi will be still supporting the project.
 - Research Fellow position at Warwick was advertised. The first round advertisement, there were no suitable candidates. The position is now re-advertised.
- Warwick Economics:
 - Fei Liu has submitted her PhD thesis.
 - Adam Hutchinson has graduated and left the project (joined National Grid)

3. Discussion of annual progress, highlight major achievement (PMT members)

Almost all Annual Reports has been submitted.

Actions:

- Phil Eames – to prepare report from Loughborough team
- All: Highlight of the major achievements in addition to the output specified in the annual report. It is necessary to prepare two/three pages of slides to highlight the major achievements in the past four years. It will be put together to give an overview at the annual review meeting. **(the deadline is 16th Nov)**
- Jacek – to collect all achievements together from the consortium.
- Jacek –prepare the output list and annual report based on submitted reports **(7th Nov)**

We have the following participants for our annual meeting:

- Andrew MacDonell from EPSRC
- Chuan Zhang from Gaelectric

- Bryony Livesey from Costain (EAG head)
- Matt Cunningham from GE Energy
- Lewis Dale from National Grid
- Fritz Crotochino from KBB Underground (only EAG meeting part via Skype)

Actions:

- Jihong to invite Marco Marijewycz from E.ON for a potential talk.
- Jihong to contact Andrew Hay and refuse his attendance in the annual meeting
- Jihong to contact RSS to get the formal letter about IMAGES project extension (28 February 2018) and circulate within the consortium.

4. Meeting agenda of the annual progress review meeting

The draft agenda of the incoming annual meeting has been circulated by Jacek. Any suggestions should be directed to Jacek.

Actions:

- Jacek to work on the meeting agenda.

5. Project finance report and discussion

Jihong has reported the current financial situation. In our collaboration budget (contingency money) set in the collaboration agreement, we have scheduled a PDRA for 36 months. Hers is the recent figure for the budget (FEC):

- 1) PDRA: £41,134 (12 months)
- 2) Indirect cost: £39,858 (but is appear only £6,776 on the account. I guess the finance started charging us before the PDRA is in place. I am now checking with the school finance to get it corrected.)
- 3) Estates: £14,911 (but is appear only £2,535 on the account. I guess the finance started charging us before the PDRA is in place. I am now checking with the school finance to get it corrected.)
- 4) Other direct cost funding: £90,881 (Shard event account has not been cleared. It may have £5,000 pending) this budget includes travel, other cost, training, publications (open access, we did not spend this as we have been using the university central budget)

Jihong had a discussion with RSS. The university needs to retain the PDRA cost within the university due to the large amount of direct cost (20% payment). The university can transfer the direct cost from 4) to other institute which can be used for paying the researcher if the institute can absorb the indirect cost. Or, the PDRA can be hired by the University of Warwick but work with other institute as collaboration.

So far we have the following proposals for spending this port of money:

- 1) To extend Jacek's contract for six months
- 2) BGS additional funding: £80,708 +£14,952(Estate) +£43,075(Indirect) = £138,735
- 3) To extend John's contract (2days/week) from Loughborough
- 4) To compensate the time losses due to Lisa's maternity leave

Actions:

- All – to allocate the money. PMT members need to send their requirements to Jihong.
- All – to prepare a short proposal for further work/research with the time frame and funding needed – **the deadline is 1st Nov 2016.**

- BGS team – to write proposal for funding, which can be circulated within the consortium.

We discussed also a potential collaboration between IMAGES Project and other Energy Storage projects.

Actions:

- Jacek to send invitations to Energy Storage for low carbon grid project and also Energy Storage Hub to attend the annual meeting.
- Jihong and Jacek: to keep all records of interactions with other ES projects and attach to the project report.

6. Discussion of project extension and further funding application with identified research areas

The potential research topics for further collaboration in terms of the project extension need to be identified. A case should be put together to apply for extension of the IMAGES project with further funding support (for next 2 years).

Actions:

- All – to identify the important topics for collaboration with explanations for what and why we need to do it and why we need to do it within the team/consortium. Please send it to Jihong – **the deadline is 17th November 2016.**

7. AOB

No AOB.