

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

## 9<sup>th</sup> Project Management Team (PMT) Meeting

### Minutes

Date and time: 14:45, 21<sup>st</sup> September 2015

Venue: School of Engineering, Room D202, University of Warwick, Coventry, UK

#### 1. Attendances:

Jacek Wojcik, Robert MacKay, Mike Waterson, Seamus Garvey, Monica Giulietti, Jonathan Busby, David Evans, Murray Thomson, Philip Eames.

#### Apologies:

Jihong Wang, Phil Mawby, Richard Critoph,

#### 2. Update of recruitment and staffing

- Andrew is leaving the project at the end of October.

**Action:** Seamus needs to advertise a postdoc position.

- Lisa is moving to half time IMAGES and part time National Grid project.

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

- Email to strengthen collaboration between team members has been sent. It is still important to strengthen the collaboration and joint activities between partners will be organised (postdocs meeting and/or other joint activities).  
**Action:** Jacek to send emails to organise postdocs meetings.
- Goran Strbac was contacted about future possible collaboration.  
**Action:** Jacek needs to check with Jihong if there is any progress.
- PMT need to find out how to spend money for promotional materials (£10k). It needs to be checked if the money can be spent on event organisation, speakers or cover travelling costs etc.  
**Action:** PMT to consider what promotional materials might be considered to promote IMAGES Project.
- Implementation plan: Jacek designed and developed two animations for the project website about HTTS and CAES technologies. High definition video clips has been uploaded into IMAGES YouTube channel and linked with IMAGES project website. A web design company is hired to design an animation for the front page to explain the need for energy storage in the grid. The animation should be completed soon. Seamus indicated that besides CAES and HTTS technology themes it should also be built a theme around Generation Integrated Energy Storage (GIES).  
**Action:** Jacek to finish animations and upload to the project website.
- Robert raised a question about an interaction with Energy Catapult. Seamus proposed to launch an invitation for them to take part in the next IMAGES Annual Project Meeting.  
**Action:** Jihong to send an early invitation.
- Plan for the next day meeting (the workshop part on 22<sup>nd</sup> Sept 2015) with EAG members were discussed in details between PMT board members.
- PMT members agreed that it is necessary to stick closely to the project plan to deliver the best possible outcome from the project.

#### 4. Review of project finance

No issue, everyone is aware about available resources. Monica is moving from Warwick to Loughborough with her funds.

#### 5. Discussion on joint research activities

- Seamus indicated that more work should be done to compare performance vs costs for different energy storage technologies. It could lead to a joint publication.
- Mike noticed that another possible paper could consider private vs social benefits of energy storage.
- David indicated public acceptance of energy storage as a potential topic for joint publication.
- Robert is going to start working on paper regarding UK capacity market for CAES.
- Warwick and Loughborough teams are going to work on paper regarding HTTS integration with generation.

#### 6. Finalising the presentation of the IMAGES Project Progress Report

- It has been already discussed in point no3 above.

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

- Reports from each party have been submitted to Jacek and will be uploaded on the project website.

**Action:** Jacek is going to circulate the output to make sure that everything is included for future EPSRC report.

#### 8. Actions for impact plan implementation

- **Project website**

Two animations about CAES, HTTS have been published on the project website. Also a general presentation is in preparation now.

**Action:** Jacek will update the project website.

- **Events, seminars, talks, conferences, etc.**

UKES2015 conference is coming in November 2015. There will be a contribution from IMAGES team.

#### 9. New funding and funding opportunities

- Seamus mentioned that he received a small grant with UCL.
- Energy research accelerator – a decision should be taken in November 2015.

#### 10. Date and venue of next meeting

BGS, January 2016. An invitation to Jim Watson should be sent – to give a talk about demand side management.

#### 11. AOB