

Supergen Cross-Hub Workshops

Workshop 2 Theme - Co-Design of Offshore Renewables with Network & Storage Vectors - Future systems

Workshop details

- **Date: 6th November 2020**
- **Time: 14:00 – 16:30**
- **Location: Online Zoom meeting** (the link and password to the meeting will be available via Eventbrite once the Well-Sorted survey and event registration has been completed).

Context

Current and future research challenges for sustainable energy generation, transmission, storage and utilisation span a range of disciplines. Three of the Supergen programmes, Supergen Offshore Renewable Energy (ORE) Hub, Supergen Energy Storage Network+, and Supergen Energy Networks Hub, have come together to hold a series of virtual cross-discipline workshops, bringing together Academics, Researchers, Practitioners and companies to explore the common challenges, synergies and opportunities with a goal to achieving step changes towards the highly ambitious net-zero carbon 2050 vision, and influencing the discussions around COP. More information regarding the Supergen programmes involved can be found at the end of this document.

The scope of this workshop covers energy vectors for offshore renewables. Energy vectors allow to make energy available to be used at a distance/different time from the source of generation. Typical energy vectors relevant for offshore energy are electricity, hydrogen, compressed gas. The workshop will consider the development and co-design of future offshore energy vector systems.

Following the workshops the three Supergen programmes are making seedcorn funding available to fund specific projects seeking solutions and pathways for the prioritised challenges identified within the cross-discipline workshops. The intention is to fund cross-discipline collaborations that carry out pilot studies to enable new and adventurous research, ultimately leading to further grant applications through existing funding bodies.

A total of £75,000 is available for pilot studies resulting from this workshop, and applications from collaborative groups will be capped to allow for three or four studies to be funded. Further details regarding the funding and the process for applying for seedcorn funding will be made available during the workshop.

Workshop registration and process for submitting research topics for discussion

We are using the online platform, [Well Sorted](#), to facilitate both the scope and submission of topics in advance of the workshop. This will enable topic ideas to be submitted and prioritised by delegates in advance, so that the workshop can be split into relevant breakout rooms by topic theme with a focus on further developing topic ideas and identifying potential collaborators.

To enable this to happen delegates are required to follow a 3-step process (which must be completed in the order provided below):

Step 1

Each delegate to submit a maximum of two ideas/ topics within well-sorted that are of importance for this workshop theme, highlighting where you can offer either expertise from your particular research area, or where you see research expertise being required from another area, particularly through the other Supergen Hub disciplines.

To submit your two ideas/topics you can access the Well-Sorted survey here: <https://www.well-sorted.org/study/submitItems.php?id=CoDesignofOffshoreRenewables>. You will be able to provide a topic title and a descriptor outlining each idea, your expertise and where you feel cross-discipline collaboration would be beneficial (A word limit will be imposed so please be concise in your submissions)

Step 2

The survey for topics / ideas within Well Sorted will close at 5pm (BST) on Friday 2nd October 2020. Following this you will receive an email to request you log back into the survey in order to provide your ranking/prioritisation of the topics submitted by you and other delegates. Once logged into Well-Sorted, you will be able to see all submitted items for sorting. [Instructions on how to rank/prioritise topics can be found on the Well Sorted website](#). These will also be included in the email request to you. **The deadline for sorting the topics is 5pm (BST) Friday 9th October 2020.**

Once all of the submitted topics have been ranked/prioritised the Well-Sorted software will automatically produce a suggested grouping of topics which, following review by the Supergen programmes to ensure an even number of delegates/expertise per topic area, will form the basis of the breakout rooms in the Workshop held on 6th November 2020.

Step 3

Once you have completed the Well Sorted survey and have submitted your ideas (**as per Step 1 above**), please register your attendance for the workshop by registering your place on Eventbrite here: <https://www.eventbrite.co.uk/e/workshop-2-co-design-of-offshore-renewables-transmission-storage-tickets-121373474329>

You can register your attendance via Eventbrite once Step 1 is completed and before Step 2.

Workshop Agenda

An outline agenda for the workshop is provided below. The date of the workshop is fixed to the 27th October however session timings within the workshop are subject to change.

Agenda – 6 November 2020 – 2pm to 4.30pm (Conducted via Zoom)

14:00: Welcome & overview

14:05: An introduction/scene-setting through a Hub representative / company / invited speaker

14:20: Brief review of well-sorted topic groupings and allocation to breakout discussion topics/rooms

14:25: Moderated Breakout rooms – Personal introductions & discussion of prioritised challenge topic (Number and automatic allocation of breakout rooms will be made clear during the workshop)

14.55: Plenum session 1 - Feedback from Group Moderators

15.15: Comfort Break

15:35: Moderated Breakout Rooms 2 – Developing ‘Topic sketches’

16:05: Plenum session 2 - Feedback from Group Moderators

16:20: Briefing further steps and proposal applications / funding process

16:30: Summary and Close

The workshop plenum sessions will be recorded and made available via the Supergen Hubs and Network+ websites in accordance with Equality, Diversity and Inclusion best practice.

About the workshop organisers

Supergen Offshore Renewable Energy (ORE) Hub

The Supergen ORE Hub is a £9m research consortium which looks for synergies between wind, wave and tidal technologies, and builds on current research in each area. It is one of three Hubs and two Networks funded by the Engineering and Physical Sciences Research Council (EPSRC) designed to deliver sustained and coordinated research on sustainable power generation and supply. The University of Plymouth leads the Supergen ORE Hub, with Co-Directors from the Universities of Aberdeen, Edinburgh, Exeter, Hull, Manchester, Oxford, Southampton, Strathclyde, and Warwick.

[Find out more about the Supergen ORE Hub](#)

Supergen Energy Storage Network+

The Supergen Energy Storage Network+ connects and serves stakeholders across the whole energy community, advancing and championing UK energy storage research and deployment. Driven by a multi-disciplinary investigator team and a well-established and growing base of expert members, Supergen Network+ will convene the energy storage community across discipline to enable it to grow, to flourish and to strengthen its leading position in the sector. The team of investigators consists of 19 leading academics at different career stages across 12 UK institutions, with complementary energy storage related expertise, as well as, 60 supporting organisations. The Supergen Network+ is led from the University of Birmingham by Professor Yulong Ding.

[Find out more about the Supergen Energy Storage Network+](#)

Supergen



Offshore
Renewable
Energy

Supergen



Energy Storage

Supergen

Energy Networks

Supergen Energy Networks Hub

The Supergen Energy Networks Hub brings together a diverse community of more than 600 Industrial, Academic and Early Career Research partners to gain a deeper understanding of the interactions and inter-dependencies of energy networks.

The Hub's research is led by Professor Phil Taylor, Bristol University with Co-Directors based at Newcastle, Manchester, Cardiff, Bath and Leeds Universities. The research addresses the challenges of technology, policy, data, markets and risk for energy networks.

[Find out more about the Supergen Energy Networks Hub](#)