



A busy end to 2018, and looking forward to 2019

As we rapidly approach the year end, activity at the Centre is as busy as ever focusing on supporting the commissioning of the Caithness-Moray project. We are also running a call for research proposals (open until Friday the 21st December), and working on the PROMOTioN project.

In 2019, we already have two real-time simulation training courses scheduled at the Centre (see article for details). Centre staff will be presenting at the ACDC Conference in Coventry (5 - 7 February 2019), so do come and say hi! And we are planning a dissemination event, for the lessons learnt from the Caithness-Moray project, on 28th March 2019.

Wishing you the best Christmas and New Year! And remember, with any winter activity, be sensible, stay safe!

All at the HVDC Centre



RTDS® Real-Time Simulation training course

We are excited to be running a training course on RTDS® Real-Time simulation; with the content of the course having been approved by RTDS Technologies.

This 3-day course will start with the basic principles of real-time simulation, and progress through the modules of the RSCAD software suite, using our experience of interfacing with HVDC replica controls to demonstrate the practical applications of real-time simulation.

Our January course is already full; however another course is running on Tuesday 30 April to Thursday 2 May 2019, at The HVDC Centre, Cumbernauld, G68 0FQ

Please contact info@hvdccentre.com for more information or to register for the course. Further details can be found on: <http://www.hvdccentre.com/>.

New start

Oluwole Daniel Adeuyi is a chartered engineer with the UK Engineering Council. He joined The National HVDC Centre as a Simulation Engineer in October 2018. Daniel comes with over six years' experience gained from working on major EU and UK electricity networks research and innovation projects as a researcher at Cardiff University. Currently he is working on FST4 for the CM project and the academic engagement programme for the Centre.

We are delighted to welcome Daniel to our team.



To find our more, please contact us to discuss or to arrange a visit:

01236 687240 | info@hvdccentre.com | hvdccentre.com



FST4

One of the most pressing pieces of work to be done upon receipt of the Replicas was a project dubbed 'FST4'; which is an extension of the factory system testing undertaken with the manufacturer.

Where the manufacturer lead testing focussed purely on testing and demonstrating the specified functionality of the link, this extension was designed to give a better look at system integration.

The replica Control and Protection panels have been integrated within a real-time model of the wider network in the North of Scotland. This has allowed more realistic scenarios to be played out and end-to-end testing of functionality driven by the prevailing network conditions.

By performing these tests ahead of commissioning, it has allowed potential risk to be mitigated and provided assurance to the business ahead of energisation.

Ian Cowan

The National HVDC Centre announces call for Research Proposals

HVDC transmission networks facilitate the integration of renewable generation from remote locations into electricity grids, allow interconnection of grids operating at different frequencies and enable efficient bulk power transfer over long distances.

In November 2018, The National HVDC Centre issued a call for research proposal abstracts from UK universities and research institutions, to support its objective of de-risking the deployment of HVDC technologies on the GB electricity network.

The research proposals are expected to support planning of HVDC schemes, facilitate multi-terminal HVDC solutions, optimise operation and control of HVDC schemes, investigate new HVDC technologies and encourage collaboration using the HVDC Centre's real-time simulation facilities.

An internal technical review panel will assess the submitted abstracts based on potential benefits for the GB electricity network, overall quality, appropriateness of proposed methods and relevance of the outputs.

Shortlisted proposal abstracts will be invited to submit full proposals by 1 February 2019. The successful bidders are expected to conduct their research project with direct involvement of the HVDC Centre staff, hence encouraging collaboration between the UK academia and industry. The selected research projects are expected to start from April 2019.

Daniel Adeuyi

ACDC 2019 (5-7 February, Coventry)

The National HVDC Centre will be presenting our paper on 'Installation and Interfacing HVDC Control Replicas' during the Thursday morning session and leading on the afternoon tutorial session, on the Tuesday.

If you would like to speak to us, please come and see us on the day or email beforehand to arrange a suitable time to talk to one of the team; or visit our stand, for demos or just to say hi!

For more details on the ACDC 2019 conference, visit: events.theiet.org/acdc

Ian Cowan

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