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So far this year, InnoDC has attended conferences, expanded its network and published papers.



Conferences:

In March, [Emily Maggioli](#) (of [Uporto](#)) attended the [International Conference on Developments in Power System Protection](#), Liverpool, to present her paper **Impact of VSC based HVDC interconnection on AC power system energy transmission wide-area disturbance**. If this is your area, watch her [Power Point video](#). The same month, [Vaishally Bhardwaj](#) (of [KU Leuven](#)) attended the [Risk Day at University of Strathclyde](#) where she presented her work on **security constrained optimal power modules for AC/DC grids**. Go to the [live-stream](#) from 03:19:09 to see her presentation.



National HVDC Centre, Scotland and offshore wind, Wales:

The Covid-19 situation meant many of the presentations due to take place at [InnoDC's Cardiff meeting](#) were postponed, including InnoDC's presentation to the Welsh Government and the Crown Estate. However, [Heledd Cressey](#) (Welsh Government, Offshore & Transmission Energy Policy) shared two useful reports for discussion. Download to read: [Future Potential for Offshore Wind in Wales](#) and [Benefits of Floating Offshore Wind to Wales and the South West](#).

Fortunately, InnoDC was able to contribute to the [Cardiff University & National HVDC Centre](#) joint webinar, attended by over 125 experts from across Europe. Click here for slides: [HVDC challenges in meeting current GB Grid Code in a weak network](#).

Collaborative research:

InnoDC welcomed to its network a new Belgian company, [Enersynt](#), which specialises in offshore wind farm grid connection. Keep an eye on the [journals web-page](#) for future collaborative publications with its director, [Stijn Hendrix](#), and [InnoDC researchers](#).

Below are two recent InnoDC related papers published in IEEE Transactions on Power Delivery:

- (1) [Protection for Submodule Overvoltage caused by Converter Valve-Side Single-Phase-to-Ground Faults in FB-MMC based Bipolar HVDC Systems](#). Authors: [Gen Li](#), [Jun Liang](#), [Carlos E Ugalde-Loo](#), [Fan Ma](#), [Haifeng Liang](#) and [Ziming Song](#); and
- (2) [DC Voltage Droop Control Design for MMC-Based Multiterminal HVDC Grids](#). Authors: [Saman Dadjo Tavakoli](#), [Enric Sánchez-Sánchez](#), [Eduardo Prieto-Araujo](#), [Oriol Gomis-Bellmunt](#).



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