

WPD's BALANCING ACT CONFERENCE

20th June 2019

One Great George Street, London

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Final Agenda

09.30 – 10.00	Registration & Refreshments
10.00 – 10.10	Welcome & Introduction <i>Nigel Turvey, WPD DSO and Future Networks Manager</i>
10.10 – 11.00	Network Equilibrium <i>Yiango Mavrocostanti, WPD Innovation and Low Carbon Networks Engineer</i> <p>One of our largest Innovation projects to date, Network Equilibrium has successfully demonstrated centralised voltage optimisation in 33kV and 11kV networks through the design, implementation and trial of the System Voltage Optimisation technology. Intelligent power flow control has been implemented through the operation of the Flexible Power Link, which allows power transfers between two grid groups that could not be traditionally interconnected.</p> <p>Network Equilibrium is now coming to a close and this first session will take a look at what the project has delivered, key project learning and outcomes, and what this means for WPD's network and the wider electricity network.</p>
11.00 – 11.30	Primary Networks Power Quality Analysis <i>Steven Pinkerton-Clark, WPD Innovation and Low Carbon Networks Engineer</i> <p>The PNPQA NIA project is evaluating how harmonics and power quality can be monitored and analysed in a cost-effective way across wide areas of the network in order to understand the impact of low carbon technologies on the network's harmonic levels. Additionally, the project aims to generate knowledge on whether transducers affect the harmonics and provide automated processes for power quality/harmonic data retrieval and analysis.</p> <p>In this session, we will share the lessons learnt from the project so far.</p>
11.30 – 11.50	Refreshments
11.50 – 12.30	Technical Panel Session Key industry professionals will be discussing how technology can enable advanced network operation and control.
12.30 – 13.30	Lunch & Networking



13.30 – 14.00	<p>EDGE-FCLi <i>Faithful Chanda, WPD Innovation and Low Carbon Networks Engineer</i></p> <p>The EDGE-FCLi project is investigating the integration of FCLi technology into the WPD network at the Point of Common Coupling of a synchronous Distributed Generation (DG) plant and assessing the extent to which the fault infeed from the Generator can indeed be limited and then interrupted. This session will discuss the progress that has been made on the project so far.</p>
14.00 – 14.30	<p>Virtual STATCOM <i>Grant McCormick, PSC Consulting</i></p> <p>During the Virtual STATCOM project, power system studies will be completed to determine whether it is possible to improve the network voltages and release network capacity by performing coordinated control and optimisation of the power factor of generators already connected to the 11kV and 33kV network. The optimisation will be achieved using the Virtual Statcom algorithm that will be developed in this project. This session will discuss the project objectives and the work that has been completed in the design and build phases of the project so far.</p>
14.30 – 14.45	<p>Refreshments</p>
14.45 – 15.15	<p>Losses Investigation <i>Chris Harrap, WPD Innovation and Low Carbon Networks Engineer</i></p> <p>The purpose of the Losses Investigation project was to understand technical losses on the LV & HV distribution network and determine the minimum information required to accurately predict network losses. The project has now closed and outcomes and learning will be disseminated within this session.</p>
15.15 – 15.30	<p>New Projects <i>Jonathan Berry, WPD Innovation Team Manager</i></p> <p>An introduction to some of the latest technical additions to our Innovation project portfolio and an insight into our future projects and plans.</p>
15.30	<p>Close</p>

To register your place, or advise of any special dietary or special access requirements for the day, please contact the WPD Innovation team at: wpdinnovation@westernpower.co.uk or alternatively, please call (01332) 827446.

