

# DS3 Programme Status Update

19<sup>th</sup> January 2016

- The system trial where the maximum SNSP level has been increased to 55% commenced on 16/10/2015. On 20/10/2015 the SNSP on the system reached 55% for the 1st time.
- The Phase 2 report of the RoCoF Alternative & Complementary Solutions Project was published on 22/12/15 for industry comment. The closing date for comments is the 19/02/16. A link to the report can be found [here](#). An industry workshop is planned to take place in Q1 of 2016 to allow for further industry engagement.
- On the RoCoF Generator Studies project, TSOs-RAs-Generator trilateral meetings were held on 03/11/2015 and 04/11/2015 between EirGrid, CER and various generators. Similar bi-lateral meetings between AES and SONI in Northern Ireland were also held. The meetings were broadly positive, with some generators close to compliance and the majority of units are on track to meet their study deadlines. The NI Quarterly update on the Generator Studies was issued to UR.
- DS3 won the “Communication & Participation” category of the 2015 RGI “Good Practice of the Year” award – the award is focussed on the DS3 Advisory Council.

## Status

Workstream	Commentary
<b>Communications</b>	<ul style="list-style-type: none"> <li>• The DS3 workstream plans are currently under review – following internal and external engagement they are expected to be published in Q1 2016.</li> <li>• The EirGrid Customer Conference took place in Belfast on the 20/10/2015 – a workshop on the DS3 Programme was held in the afternoon and was attended by over 120 delegates.</li> <li>• There were numerous presentations made on the DS3 Programme at the request of external parties, e.g. at a NGUK industry forum in Warwick on 01/12/2015, a Cigre Training Day seminar in Dublin on 02/12/2015, a University of Tokyo workshop in Dublin on 23/11/2015 and an EirGrid-ESKOM workshop on 13/11/2015.</li> <li>• DS3 won the “Communication &amp; Participation” category of the 2015 RGI “Good Practice of the Year” award – the award is focussed on the DS3 Advisory Council.</li> </ul>
<b>System Services</b>	<ul style="list-style-type: none"> <li>• A detailed update on the System Services Implementation Project can be found <a href="http://www.eirgridgroup.com/site-files/library/EirGrid/DS3-System-Services-Dec-15-Quarterly-Update.pdf">here</a>: <a href="http://www.eirgridgroup.com/site-files/library/EirGrid/DS3-System-Services-Dec-15-Quarterly-Update.pdf">http://www.eirgridgroup.com/site-files/library/EirGrid/DS3-System-Services-Dec-15-Quarterly-Update.pdf</a></li> </ul>
<b>RoCoF</b>	<ul style="list-style-type: none"> <li>• Following feedback from the DS3 Advisory Council in September, the scope for Phase 2 of the RoCoF Alternatives project was finalised and subsequent studies have now been completed.</li> <li>• The Phase 2 report of the RoCoF Alternative &amp; Complementary Solutions Project was published on 22/12/15 for industry comment. The closing date for comments is the 19/02/16. A link to the report can be found <a href="#">here</a>. An industry workshop is planned to take place in Q1 of 2016 to allow for further industry engagement.</li> <li>• NIE are progressing with studies that will determine the impact of changing G59 RoCoF protection settings to 1 Hz/s. Following feedback, NIE have indicated a revised timeline for initial communication with embedded generators on changing protection settings.</li> <li>• On the RoCoF Generator Studies project, TSOs-RAs-Generator trilateral meetings were held on 03/11/2015 and 04/11/2015 between EirGrid, CER and various generators. Similar bi-lateral meetings between AES and</li> </ul>

	<p>SONI in Northern Ireland were also held. The meetings were broadly positive, with some generators close to compliance and the majority of units are on track to meet their study deadlines. The NI Quarterly update on the Generator Studies was issued to UR.</p> <ul style="list-style-type: none"> <li>A revised RoCoF modification has been drafted by ESNB on embedded generator frequency, RoCoF and voltage requirements. This was drafted following engagement with the Ireland Distribution Code Review Panel (DCRP) embedded generator representative. The modification was agreed in principle at the December Distribution Code Review Panel meeting and subsequently was forwarded to the CER for approval.</li> </ul>
<b>Grid Code</b>	<ul style="list-style-type: none"> <li>The modification to the EirGrid Grid Code on generator Dynamic Model Requirements was presented to the Grid Code Review Panel on 30/09/2015. A report is currently being compiled on the extensive industry consultation that was carried out as part of this work. This report, along with the proposed Grid Code modification, will be issued to the CER for approval in January 2016.</li> </ul>
<b>DSM</b>	<ul style="list-style-type: none"> <li>The CER and UR approved Grid Code modifications related to Frequency Requirements and Performance Monitoring of DSUs in October.</li> <li>A project on the provision of demand response from residential consumers was initiated. The Residential Consumer DSM Scheme competition was opened on the e-tenders platform on 17/11/2015. The completion tender closed on 22/12/2015 – a number of submissions were received by industry and the Preferred Bidder is expected to be identified in mid-January.</li> <li>The Joint Grid Code Review Panel has agreed to replace the previous DSU Grid Code Working Group with the wider remit DSM Grid Code Working Group – the first meeting is expected to take place in Q1 2016.</li> </ul>
<b>Voltage Control</b>	<ul style="list-style-type: none"> <li>The Nodal Voltage Controller control modes have been agreed with ESNB. Signal lists have been sent to the wind farms taking part in the nodal voltage controller trial.</li> <li>An agreement outlining the roles of both EirGrid and ESNB in the reactive power control of distribution-connected resources in Ireland is being drafted.</li> <li>A study to investigate the application of a 'smart' power factor for distribution-connected wind farms at the Magherakeel cluster in Northern Ireland, in the absence of a nodal voltage controller, is nearing completion.</li> </ul>
<b>Frequency Control</b>	<ul style="list-style-type: none"> <li>The Windfarm frequency response trial commenced with EWIC system tests on system tests on 24/09/2015. Analysis of the data from this trial is underway and will be presented to at the next series of OPR Committee meetings.</li> <li>A study to consider developing an operational metric for voltage dip-induced frequency dip has commenced. The study will also investigate potential solutions.</li> </ul>
<b>Control Centre Tools &amp; Capability</b>	<ul style="list-style-type: none"> <li>Final configuration of the EMS pre-production platform is being carried out by Power Systems IT. Significant further OPI validation is required before transitioning to the new system. The estimated date for the transition to the new EMS in the NCC (Dublin Control Centre) is mid-January and the CHCC (Belfast Control Centre) is late January.</li> <li>Work has started on identifying the changes to the EDIL tool required for the seven new DS3 System Services.</li> </ul>
<b>WSAT – Wind Security Assessment Tool</b>	<ul style="list-style-type: none"> <li>A WSAT Expert Log has been launched - this is an interactive table for Grid Controllers which allows them to track on-line WSAT issues.</li> <li>Windfarm Power Station over-frequency, under-frequency, over-voltage, under-voltage, and RoCoF protection relay models have been reviewed, updated and implemented in live WSAT. Moyle and EWIC models have been updated to enable contingency definition involving ramping with a defined ramp rate.</li> </ul>
<b>Renewable Data</b>	<ul style="list-style-type: none"> <li>The 2014 Renewable Constraint and Curtailment Report for Ireland and</li> </ul>

	Northern Ireland, as required under European and Member State legislation, is expected to be published in January.
<b>Performance Monitoring &amp; Testing</b>	<ul style="list-style-type: none"> <li>• The EPMS IS Implementation Project is currently in the analysis phase (conversion of business requirements into functional specifications) and should be completed by mid-January 2016. Following this, the IS design phase will commence with UAT scheduled for August 2016.</li> <li>• The Statement of Work and contracts with the EPMS developers, Tata Consultancy Services (TCS), have been agreed and signed.</li> <li>• The long term project governance arrangement for the Performance Monitoring and Testing workstream is currently being reviewed – this reflects the close relationship with the System Services workstream.</li> </ul>