

DS3 Programme Status Update

24 May 2016

- In October 2015, we carried out a system trial where the maximum SNSP operational limit was increased to 55%. Following successful completion of this trial, a decision was made to move SNSP to 55% on a permanent basis. This increased limit came into effect from the 1 March 2016. The movement of the SNSP limit is the first significant move towards achieving the renewable energy policy objectives of our respective governments and reducing the cost of electricity for customers on the island.
- Both the Gird Code and Renewable Data workstreams have closed and will continue under business as usual (BAU).
- An internal review of the DS3 workstreams has been carried out – following internal and external engagement they are expected to be published in May.
- A tender notice was published on e-tenders on 20 April for the procurement of DS3 System Services for the Interim Arrangements. A main procurement process will be used for eleven services for “proven” technologies. A separate qualification trial process will be used to measure the quality of provision of the remaining three “fast” services. Work is ongoing on developing the specific details of these trials.

Status

Workstream	Commentary
Communications	<ul style="list-style-type: none"> • On 11 April 2016, we hosted a System Services Industry Forum in Dundalk. The forum focused primarily on the Interim Arrangements for System Services in advance of the go live date of October 2016. The topics discussed on the day included, Interim Tariffs, Interim Contracts, Interim Arrangements Central Procurement Process and the Qualification Trials, Settlement Calculations, Performance Monitoring and Compliance. Attendance at the event was high with circa 100 attendees and feedback was positive. • A DS3 Industry Forum was held on 01 February 2016, in the Ballsbridge hotel in Dublin. Topics presented on the day included a DS3 Programme Update, RoCoF, TSO-DSO Engagement, Control Centre Tools and an update on the 55% SNSP operational limit trial. A number of presentations on DS3 System Services were also discussed including the DotEcon Auction Design proposal, Regulatory updates and a briefing on the Scalar Design paper. • A RoCoF workshop took place on 11 March 2016, in the Crowne Plaza hotel, Dundalk. The workshop facilitated discussions on the implementation of the RoCoF GPI and remuneration mechanism. Topics discussed on the day included, RoCoF Generator Studies process and requirements, RoCoF Compliance process, RoCoF Commissioning and Testing Process and the Derogation process for RoCoF. • A Bidders Conference took place on 27 April 2016 in Dundalk. The focus of the day was to outline the specific requirements of the tender submission for the main procurement process and provide industry an opportunity for questions. The event was well attended with circa 60 attendees. <p>Please see here for all industry forum presentations.</p> <ul style="list-style-type: none"> • A DS3 System Services consultation paper on the Interim Contracts design was published on 21 April 2016 which can be found here. The contract will take the form of a framework

	<p>agreement, with separate framework agreements applying in Ireland and Northern Ireland to account for differences in governing law. A protocol document is also included as part of this which outlines details of proposals on performance monitoring and compliance of providing units. The deadline for responses is 03 June 2016.</p>
System Services	<p>Interim Arrangements (Go-Live 1st Oct 2016)</p> <ul style="list-style-type: none"> • A tender notice was published on e-tenders on 20 April for Requests for Tenders for the procurement of DS3 System Services under the Interim Arrangements. A central procurement process will be used for eleven services for “proven” technologies. There will be a separate process, in the form of qualification trials, to provide potential service providers with an opportunity to demonstrate the capabilities of “unproven” technologies. There will also be technology trials used to measure the quality of provision of the remaining three “fast” services. • A Bidders Conference was held on 27 April in Dundalk to outline specific details of the central procurement process for the Interim Arrangements to stakeholders and provide an opportunity for a questions and answers session. Approximately 60 people attended the conference. • A consultation paper on the Interim Tariff payment rates was published on 8 April. The deadline for responses is 20 May. • A consultation paper on the DS3 System Services Contracts for the Interim Arrangements was published on 21 April. The contracts will take the form of a framework agreement, with separate framework agreements applying in Ireland and Northern Ireland to account for differences in governing law. A protocol document is also included as part of this which outlines details of proposals on performance monitoring and compliance of providing units. The deadline for responses is 3 June. • A full-day DS3 System Services industry forum was held in Dundalk on 11 April. The forum focused predominantly on the core aspects of the Interim Arrangements (procurement, contracts, tariffs, settlement, performance monitoring). An update on the Enduring Arrangements and the Project Plan was also provided. The RAs and DSOs also presented updates on the day. <p>Enduring Arrangements (Go-Live 1st Oct 2016)</p> <ul style="list-style-type: none"> • An RA-led Industry Forum took place on 25 April in Dundalk to discuss the Auction Design for the Enduring Arrangements following significant feedback on the proposed design from stakeholders. The outcome of the event appears to suggest further industry engagement on the Auction Design ahead of a SEM Committee decision. A delay to this decision has a direct impact on the Enduring Contract Design, Auction Platform and Procurement workstreams. • The consultation paper on Scalar Design for the Enduring Arrangements was extended by one week until 29 April. This decision was taken following requests from stakeholders and after

	<p>assessing that the impact of extending the consultation was likely to be negligible on project delivery. The submission deadline has now passed with 24 responses received from stakeholders.</p> <ul style="list-style-type: none"> • A final decision paper on the Volume Calculation Methodology was sent to the April SEM Committee meeting for approval. The SEM Committee feedback is being worked through and the final paper is expected to be published by End May.
RoCoF	<ul style="list-style-type: none"> • The consultation for the RoCoF remuneration mechanism closed on 08 February 2016, in total 12 responses were received. Following this, a RoCoF workshop took place on the 11 March 2016, in the Crowne Plaza hotel in Dundalk. The workshop was to facilitate discussion on the implementation of the RoCoF GPI and remuneration mechanism. The topics discussed on the day included, RoCoF Generator Studies process and requirements, RoCoF Compliance process, RoCoF Commissioning and Testing Process and Derogation process for RoCoF. The TSO recommendations paper on the RoCoF remuneration was re-submitted to the RAs on 13 April 2016. The SEMC have reviewed and approved the paper on the 28 April 2016. • Meetings took place on 01 March 2016 and 02 March 2016 respectively with the CER and Generators on the RoCoF studies project. Overall there is good progress by generators with many on track to meet the June deadline. There is a risk around late submission of some ESB units. • A meeting was held with ESB GWM on 23 March 2016. They have indicated that two of their units are likely to overrun in their studies and reports will be submitted late. • Huntstown have completed their studies for HN2 and HNC and are now engaging in a testing programme in order to complete their RoCoF compliance requirements. • The RoCoF Alternatives paper was published on 21 December 2015. The findings of the paper were presented at a DS3 industry forum on 01 February 2016. The RoCoF Alternatives period for feedback ended on 26 February 2016. Following comment from industry The Phase 2 Responses to the RoCoF Alternative & Complementary Solutions Project were published on the 08 April 2016. Each response has been reviewed by the Transmission System Operators (TSOs). The report was well received by the majority of respondents.
Grid Code	<ul style="list-style-type: none"> • The modification to the EirGrid Grid Code on generator Dynamic Model Requirements has been circulated to the CER along with a recommendations paper for approval. • The workstream has now closed and will enter into BAU.
DSM	<ul style="list-style-type: none"> • The Residential Consumer DSM Scheme competition tender closed on 22 December 2015. A number of submissions were received by industry and a preferred bidder has been selected. • The revised DSU application form has been handed over to System Support, who are managing the DSU registration process and the form will be launched during May. • DSM Grid Code working group – it has been agreed that Doireann Barry will chair this working group, which is planned to commence in Q3 2016.
Voltage Control	<ul style="list-style-type: none"> • An agreement with ESNB outlining reactive power capability and settings ranges available to the TSO of distribution-connected resources has been signed-off by ESNB and EirGrid. • Some of the windfarms due to take part in the Nodal Voltage Controller pilot are not compliant with the Distribution Code reactive power requirements and therefore do not currently have the required capabilities to take part in the trial. Engagement is continuing with these windfarms to remedy the non-compliances and allow the Nodal Voltage Controller pilot to proceed. This is leading to a delay.

	<ul style="list-style-type: none"> 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 controller, has been approved by NIE and a trial commenced on 27 April 2016.
Frequency Control	<ul style="list-style-type: none"> A study investigating real-time volume requirements for FFR, POR and SOR out to 2020 was completed and approved by the OPR Committee on 08 March 2016. An FFR, POR and SOR operational policy based on the study results is currently being drafted and will be submitted to the OPR Committee in the coming weeks. A sixth study on Voltage Dip Induced Frequency Dips was completed and approved by the OPR Committee on 08 March 2016. The study was completed using the ADS Tool with a 2018 Plexos run with a SNSP operational limit of 65% in place and circa 4,000 MW of wind. An operational policy on VDIFD is currently being drafted. In advance of the implementation of the Over-Frequency Scheme, the TSOs are examining a range of interim solutions to mitigate the impact of exceptionally high-frequency events. Events of this nature could be caused by an interconnector tripping whilst at full export. To date, this has been managed by limiting exports on the interconnector. Studies are currently on-going and will be brought through the OPR process shortly.
Control Centre Tools & Capability	<ul style="list-style-type: none"> The integrated Energy Management System went live in NCC Dublin on 01 March 2016 and CHCC Belfast on 09 March 2016. It has been successfully used to control and monitor the power system since then. This is the culmination of over 4 years work to deliver an "all-island" EMS. An update to EDIL has been provided by the vendor which will include the new system services declarations. EDIL testing of this update is expected to be completed in May.
WSAT – Wind Security Assessment Tool	<ul style="list-style-type: none"> Work is on-going in finalising the hardware design requirements for WSAT upgrades.
Renewable Data	<ul style="list-style-type: none"> The 2014 Renewable Constraint and Curtailment Report for Ireland and Northern Ireland, was published on the 17 December 2015. The workstream has now closed and will now enter BAU.