DS3 Programme Status Update

18 May 2017

Key Achievements Q1 2017

SNSP to 60% - In November 2016, EirGrid carried out a system trial where the maximum SNSP operational limit was increased to 60%. Following successful completion of this trial, a decision was made early March to move SNSP to 60% on a permanent basis. A wind record of 3,071 MW was achieved on January 25th 2017 and SNSP reached 60% for periods of the day.

RoCoF implemention project completion - Director-Level meetings took place between between EirGrid and ESB and SONI and NIE N in early April to discuss the next steps to complete RoCoF implementation project and facilitate transition to new RoCoF 1Hz/s standard.

SEMC – DS3 System Services - The first Joint DS3 (System Services) Programme Board was held on 13 April 2017 between EirGrid Group, CER and UR.

Workstream Status Updates

Workstream	Commentary
System Services	**Programme Update** Since the last Advisory Council meeting the SEM Committee have published the DS3 System Services Future Programme Approach Information Paper providing an overview of the direction of travel for the DS3 System Services arrangements in the coming years. Since the publication, the TSO has been working with the RA's to develop a detailed plan for the delivery of the approach outlined in the paper. In April the fifth DS3 System Services Quarterly Update was published which detailed the TSO's emerging thinking on aspects of the revised approach. Following the Quarterly Update the DS3 System Services Industry Forum was held in Dundalk, slides from the presentation can be located here. **Performance Monitoring** The TSOs are reviewing the performance monitoring methodologies being applied in the Interim Arrangements. A large volume of feedback has been received from stakeholders in relation to these methodologies since go-live of the arrangements in October 2016. Consultation on the Interim Performance Scalar Calculation Methodology paper was published on 18 April, with responces to be submitted by 10 May 2017. **Tariffs, Scalars and Volumes** • The TSOs have published a consultation paper on the DS3 System Services Tariffs to apply for the period 1st Oct 2017 through 30th April 2018. • This consultation paper outlines the DS3 System Services tariff rates that we are proposing to apply to the existing Interim Framework Agreements for the 11 services that are being extended to the end of April 2018. The purpose of this document is to provide stakeholders with information about our proposals and guidance on the consultation process. • The TSOs will further consult in July 2017 on system services volume requirements, enduring scalar designs and the regulated tariffs to apply

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	from May 2018 onwards. **Qualification Trial Process** • In February, contracts were signed for 15 successful trialists in both the Provenability and Measurability trials. In May, the outcome of the procurement process to select the trialists was made publically available on the OJEU website. • The trials commenced on 1st March 2017 and will run until the 31st August 2017. To date, there have been 3 system events and we are currently analysing the data from those events. **Next Steps and Timelines** • With the publication of the SEM Committee's DS3 System Services Future Programme Approach Information Paper, the TSOs are now working towards delivering the milestones set out by the SEM Committee. • Key DS3 System Services dates for industry have been identified in the DS3 System Services Quarterly Update.
RoCoF	**Large Generators (Cat 1 & Cat 2)** • Engagements with the Generators on the RoCoF project are ongoing. A number of generators have completed testing and further testing/ analysis is underway for other generators. **Smaller Generators (Cat 3) (Ireland Only)** • Studies being undertaken and testing not yet due to commence. **Wind** • There is good progress with changes to settings for wind farms in Ireland, with over 80% of wind farm settings changed. A plan to complete the remaining 20% is in place. • NIE are awaiting clear direction for UR on the implementation of the RoCoF settings, following their consultation on the question of cost recovery for implementation of the RoCoF settings in Q1 this year. **Embedded Non-Wind** • ESBN are currently engaging with the embedded (non-wind) generators and have instigated a 5-stage process for engaging with them. • NIE are awaiting clear direction for UR on the implementation of the RoCoF settings, following their consultation on the question of cost recovery for implementation of the RoCoF settings in Q1 this year. **Demand Customers** • NIE and SONI to agree overall prudent approach to risk to demand, drawing down on relevant international experience of RoCoF events. • ESB N agree that a staged approach to RoCoF transition to 1Hz/s underpinned by periodic analysis will allow prudent management of risk.

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DSM	• A paper on hybrid sites, including complex hybrid DSU sites, was brought by EirGrid to the JGCRP on 25th April for discussion. • As a result, a cross-industry working group is being set up to examine the range of issues associated with hybrid sites including the application process, dispatch and controllability requirements, metering and signaling requirements, availability and forecasting requirements, compliance testing and performance monitoring amongst others.
Voltage Control	• ESB Networks are currently engaging with windfarms at Cauteen on the development of control schemes for the Nodal Controller. Testing of Glenough and Glenacarberry will take place – although we are awaiting likely timelines for works from ESB N. • NIE N has secured approval from its Board to proceed with a nodal controller at Magherakeel.
Frequency Control (Ireland only)	• There has been engagement with the impacted CCGTs on the interim over-frequency scheme (OFGS). • The CCGTs expressed concerns over the implementation of the scheme and may seek assurances from CER regarding the impact of the scheme. The roll-out of settings for the impacted wind farms has concluded.
Control Centre Tools	• Issues with wind forecasting errors have highlighted a need for a ramping policy and tool to be developed. A study report on ramping schedule has been completed and this will be progressed into ramping policy and scoping for a ramping tool in the control centres. • An issue with the Wind Dispatch Tool (WDT) was discovered earlier this year and this is being addressed by GE. The upgraded WDT is expected to be available in the Control Centre end of May.
Communications	• EirGrid received an Achievement Award from the Utility Variable Generation Interation Group (UVIG) in Arizona on 16th March. Jonathan O'Sullivan, Seamus Power, Shane Rourke and Eoin Kennedy were noted for their contributions to electricity market redesign in consideration of a high renewable energy penetration future.