

A large, stylized yellow grid pattern, resembling a power grid or a stylized 'X' shape, is overlaid on a light yellow circular background. The grid lines are thick and have a slight 3D effect with shadows.

DS3 Advisory Council Grid Code Work stream

Dick Lewis



DS3 Grid Code Objectives

- Objective
 - Develop grid code modifications that will address system issues described in the Facilitation of Renewables report, and allow SNSP limit to be raised
 - Discuss proposed modifications with industry and proceed on an agreed basis between TSOs and DSOs North and South
- Deliverables
 - Develop Grid Code modifications on the following (as appropriate)
 - WFPS static reactive power provision and reactive control modes
 - WFPS dynamic active and reactive power provision
 - General review of WFPS capabilities
 - RoCoF requirements for all plant
 - Dynamic modelling requirements
 - New technologies: Biomass / Storage
 - Negative Reserve

Progress to date

- Joint Grid Code working group has been established
 - Four Grid Code Working Group meetings have taken place
 - Reviewed results of FoR studies
 - Discussed approaches to RoCoF
 - Reviewed universal wind farm standards document
 - Presentations from conventional generators, wind industry, DSOs
- Several TSO/DSO meetings have taken place
 - Universal Standards for Wind Farms have been agreed between TSOs/DSOs
 - Loss of Mains protection has been discussed
- Modification proposals have been submitted and discussed at individual Grid Code Panels (25th May)
 - Wind Farm Ramp Rates, Frequency Response, Fault Ride Through, Reactive Capability
 - RoCoF Definitions
- Direct Contact with Wind Turbine Manufacturers
 - Seeking clarity on proposals and parameters

Proposed Modification Process

- Grid Code process is different in each jurisdiction
 - The intention is to harmonise the standards relevant to connected plant and to ensure consistency of application / compliance.
 - Slightly different approach will be required
- In Ireland,
 - Specific modifications will be proposed for certain sections of the Grid Code.
 - Following discussion / agreement at Grid Code Panel meetings, these will be submitted to CER for approval
- In Northern Ireland,
 - The wind farm related standards will be contained in the Wind Farm Setting Schedule
 - There will also be modifications to specific sections of the Grid Code to cover the wider changes (e.g. RoCoF).
 - Following a consultation a final report with modification recommendations will be submitted to UREGNI for approval

Next steps: RoCoF and Wind Farm Modifications

- The next Grid Code Panel Meetings are scheduled for September
- There are two more Grid Code Working Group meetings scheduled
- By end July, SONI will have conducted and concluded a consultation on the Wind Farm Settings Schedule and associated Grid Code modification Proposals. A final report will be issued to UREGNI mid August for approval
- By end July, EirGrid will have concluded discussions with all parties on proposed modifications. By mid August EirGrid will submit final Grid Code modifications to Grid Code Panel (27th Sept) for approval. Following that meeting all modifications will be submitted to CER for approval