DISTRIBUTION CODE MODIFICATION PROPOSAL FORM

Modification Proposal submitted By:	**DATE OF SUBMISSION OF PROPOSAL:**	**Modification Proposal Number:** *(to be assigned by Review Panel Secretary)*
Eric Lambert	24.08.2022	#59

CONTACT DETAILS FOR MODIFICATION PROPOSAL ORIGINATOR: (IF NOT DISTRIBUTION CODE REVIEW PANEL	
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MODIFICATION PROPOSAL TITLE:	Solar PV Signal Requirements
DISTRIBUTION CODE SECTION(S) AFFECTED BY PROPOSAL	DCC11.6.1.6.1 DCC11.6.1.6.2

MODIFICATION PROPOSAL DESCRIPTION *(Clearly state the desired amendment and all text changes. Attach further information if necessary)*
Deleted text in ~~strike-through red font~~ and new text highlighted in blue font

DCC11.6.1.6.1 **PPMs**, with an MEC in excess of 10 **MW**, shall make the following signals available at the **TSO Telecommunications Interface Cabinet** located at the **PPM** site:

Wind Farm Power Station Only
a) Wind speed (at hub height or as agreed with the TSO) – measurand signal;
b) Wind direction (at hub height or as agreed with the TSO) – measurand signal;
c) Air temperature – measurand signal;
d) Air pressure – measurand signal;

Solar Farm Power Station Only
a) ~~Solar~~ Global Horizontal Irradiance (GHI) – ~~measured~~ measurand signal;
b) Diffused Horizontal Irradiance (DHI) – measurand signal;
c) Direct Normal Irradiance (DNI) (required for solar tracking panels only) – measurand signal;
d) Air temperature – measurand signal;
e) Back panel temperature – measurand signal;
f) Wind speed – measurand signal;
g) Wind direction – measurand signal;
h) Precipitation – measurand signal;
i) Air pressure – measurand signal.

~~All:~~
~~a Air temperature – measurand signal;~~
~~b Air pressure – measurand signal.~~

DCC11.6.1.6.2 The Wind Farm Power Station meteorological data signals shall be provided by a dedicated **Meteorological Mast** located at the Wind-Powered Controllable **PPM** site or, where possible

and preferable to do so, data from a means of the same or better accuracy. The Solar Farm Power Station meteorological data signals shall be provided by measurement devices located at the Solar-Powered Controllable PPM site. All meteorological data signals shall at a minimum meet accuracy levels defined by the TSO. For **PPMs** where the **WTG** or **SGs** are widely dispersed over a large geographical area and rather different weather patterns are expected for different sections of the **PPM**, the meteorological data shall be provided from a number of individual **Meteorological Masts** or measurement devices**,** or where possible and preferable to do so, data from a source of the same or better reliability for groups of **WTG** or **SGs** (e.g. 1 set of meteorological data for each group of XX **WTG** or **SGs** within the **PPM** site). It is expected that **WTG** or **SGs** within an individual group shall demonstrate a high degree of correlation in **Active Power** output at any given time. The actual signals required shall be specified by the **TSO** no ~~more~~ later than 120 business days prior to the **PPM's** scheduled operational date.

MODIFICATION PROPOSAL JUSTIFICATION *(Clearly state the reason for the modification. Attach further information if necessary)*

DCC11.6.1.6.1
Given the proposed increase in large-scale solar development in Ireland it was necessary to include in the Grid Code the required solar farm meteorological and availability data signals. The Grid Code contained only the required specific wind farm meteorological and availability data signals. The TSO brought a Modification to the Grid Code to include in the Grid Code the required solar farm meteorological and availability data signals and to specify how this data shall be provided. The modification amended six existing Grid Code clauses and added four new Grid Code clauses.

The TSO now propose to amend the Distribution Code clauses DCC11.6.1.6.1 and DCC11.6.1.6.2 to align the Distribution Code with the Grid Code. The TSO propose to amend Clause DCC11.6.1.6.1 to align the wind and solar farm meteorlogical data signals required in the Distribution Code with those required in the Grid Code. The TSO propose to amend Clause DCC11.6.1.6.2 to specify how the wind and solar farm meteorlogical data signals shall be provided, and to align the specification with the Grid Code.

IMPLICATIONS OF NOT IMPLEMENTING THIS MODIFICATION

The Distribution Code will not be aligned with the Grid Code which may result in discrepancies in the data provided by Wind Farm Power Stations and Solar Farm Power Stations controlled by the TSO and those controlled by the DSO.

PLEASE SUBMIT MODIFICATION PROPOSALS TO THE PANEL SECRETARY BY E-MAIL TO: DISTCODEPANEL@MAIL.ESB.IE