

DISTRIBUTION CODE MODIFICATION PROPOSAL FORM

Modification Proposal submitted By: ESB Networks	DATE OF SUBMISSION OF PROPOSAL: 5-5-15	Modification Proposal Number: <i>(to be assigned by Review Panel Secretary)</i> 42
--	--	--

CONTACT DETAILS FOR MODIFICATION PROPOSAL ORIGINATOR: (IF NOT DISTRIBUTION CODE REVIEW PANEL)

NAME: Tony Hearne	TELEPHONE NUMBER: 01 2915738
-----------------------------	--

E-MAIL ADDRESS:

MODIFICATION PROPOSAL TITLE:	Clarity of Power Factor requirements for windfarms at low power levels
-------------------------------------	--

DISTRIBUTION CODE SECTION(S) AFFECTED BY PROPOSAL

- DCC 11.4.3
- Replacement of Figs 11 and 12

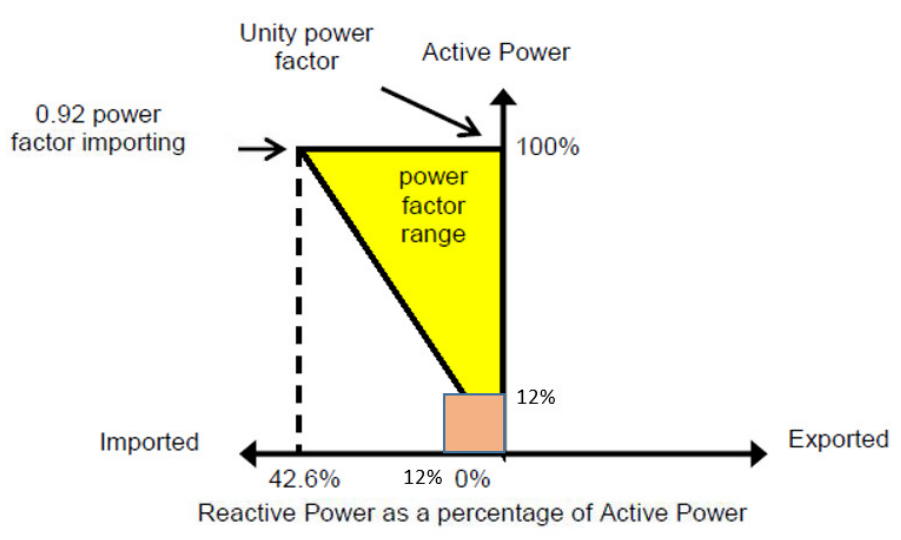
MODIFICATION PROPOSAL DESCRIPTION *(Clearly state the desired amendment and all text changes. Attach further information if necessary)*

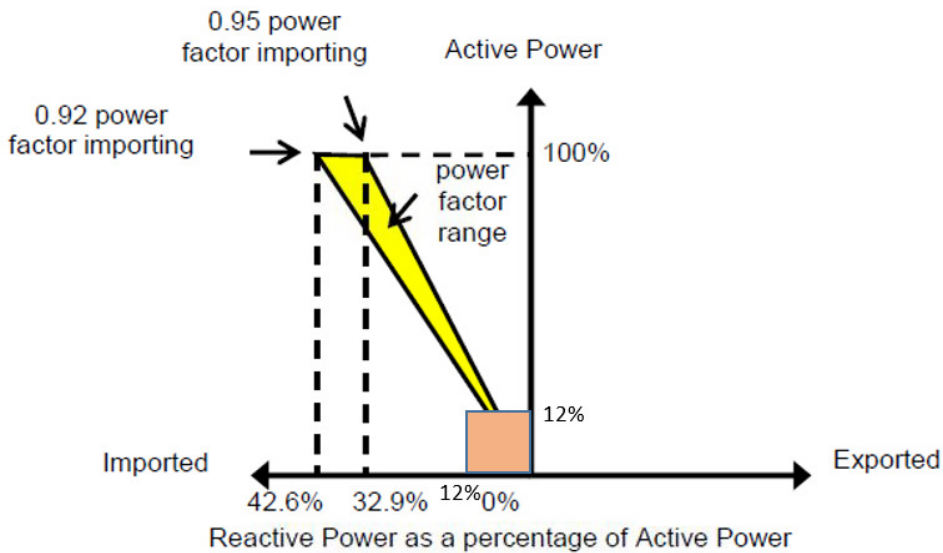
It is proposed to allow a region below 12% of Registered Capacity, within which the Reactive Power at the Connection Point can vary up to a maximum of 0.12 of - Q / P [importing Vars].

Proposed text to be added to DCC11.4.3

For avoidance of doubt, at power levels of less than 12% of Registered Capacity, the Reactive Power at the Connection Point can vary up to a maximum of 12% of – the Registered Capacity value, expressed in MVar [importing Vars].

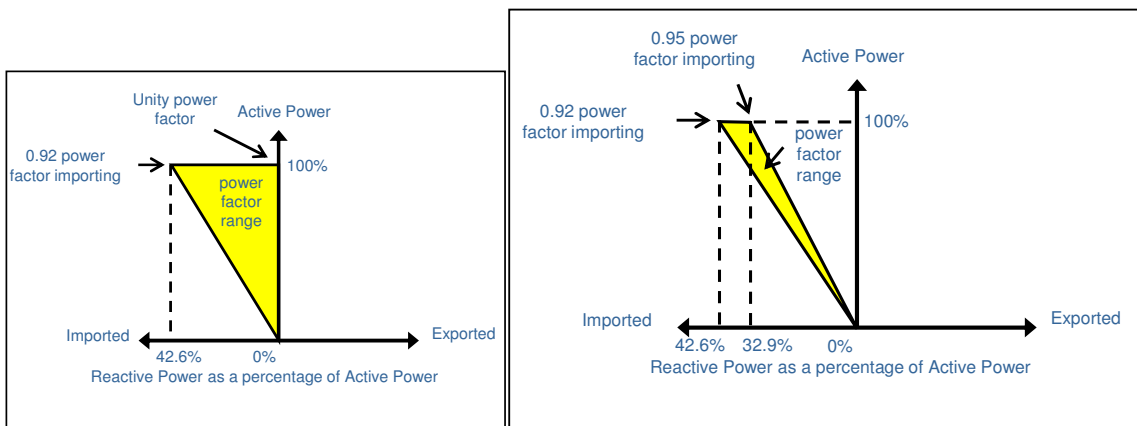
Figures 11 and 12 to amended as shown below.





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

In the course of the development of Mod #35, the opportunity was taken to replace the previous Figure 11. This had been factually incorrect and not in agreement with the pre-mod text. It was replaced by two more explicit diagrams, which more accurately reflected both the pre and post mod text.



The new diagrams necessary show lines going through the origin, which means PF is maintained at all MW levels.

This was always the intent of text but diagrams have shown it explicitly. Since issue of V5, several representations have been made to the effect that the adherence to a given PF cannot be guaranteed at such low power levels.

IMPLICATIONS OF NOT IMPLEMENTING THIS MODIFICATION

- The work to date, in mitigating and addressing the issues associated with significant penetration of Non-Synchronous generation, will be undermined by the connection of large tranches of PV and other non-wind Non-Synchronous generation.
- By default, PV and other non-wind Non-Synchronous generation, will have the same requirements as Synchronous generation

PLEASE SUBMIT MODIFICATION PROPOSALS TO THE PANEL SECRETARY BY E-MAIL TO: DistCodePanel@mail.esb.ie