

DISTRIBUTION CODE MODIFICATION PROPOSAL FORM

Modification Proposal submitted By: Séamus Power	DATE OF SUBMISSION OF PROPOSAL: 30/04/2015	Modification Proposal Number: <i>(to be assigned by Review Panel Secretary)</i> #35
CONTACT DETAILS FOR MODIFICATION PROPOSAL ORIGINATOR: (IF NOT DISTRIBUTION CODE REVIEW PANEL		
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MODIFICATION PROPOSAL TITLE:	Power Factor requirements for Type C, D and Type B <5 MW WFPS connections	
DISTRIBUTION CODE SECTION(S) AFFECTED BY PROPOSAL DCC11.4.3 Power Factor		
MODIFICATION PROPOSAL DESCRIPTION <i>(Clearly state the desired amendment and all text changes. Attach further information if necessary)</i> DCC11.4.3 Power Factor <p>WFPSs, with connection types B with a Registered Capacity of <5MW and connection types C and D shall have a settable power factor in the range of 0.92, such that vars are absorbed by the WFPS from the Distribution System, and unity, as measured at the Connection Point. This power factor range is illustrated in Figure 11. The setting shall be specified by the DSO at least 120 business days prior to the WFPS's scheduled operational date. The WFPS shall be responsible for implementing the appropriate settings during Commissioning. The power factor setting may be varied from time to time depending on system needs. The DSO shall give the WFPS a minimum of two weeks' notice if a change is required or an agreed date for the change to be implemented by the WFPS. The WFPS shall formally confirm that any requested changes have been implemented within two weeks of receiving the DSO's formal request or on the date agreed with the DSO, as appropriate. WFPSs, with connection type, D or E, shall keep power factor between 0.92 and 0.95, as measured at the Connection Point, such that vars are absorbed by the WFPS from the Distribution System. This power factor range is illustrated in Figure 4412.</p>		

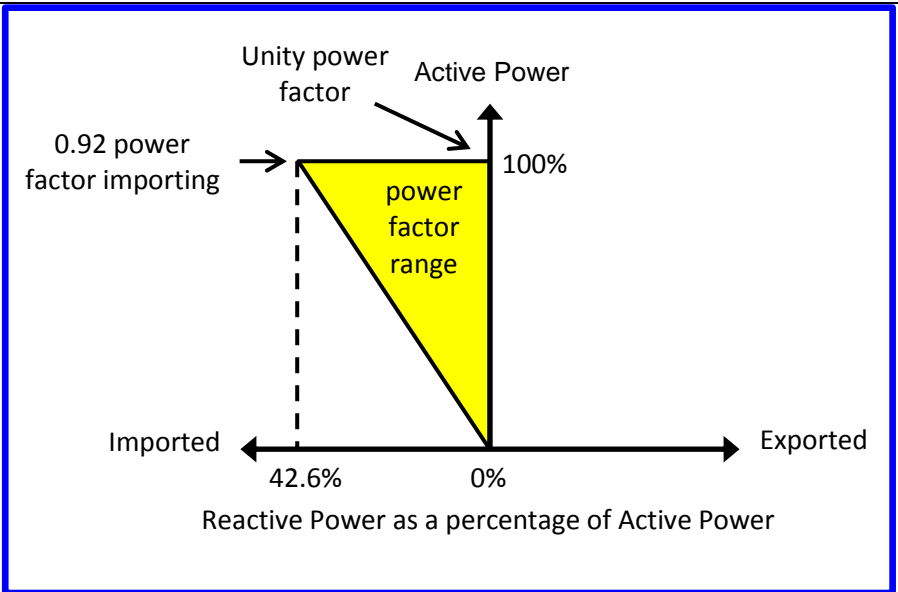
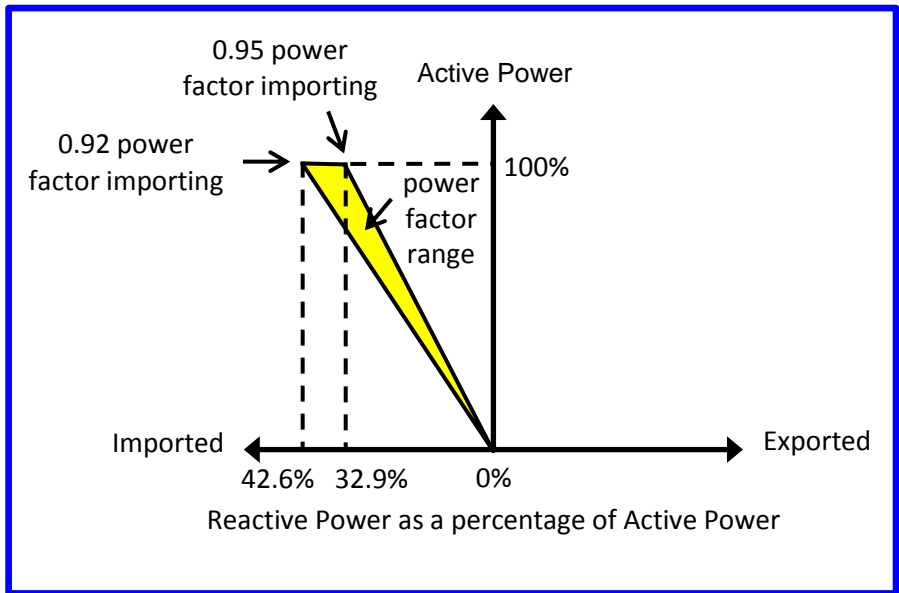


Figure 11



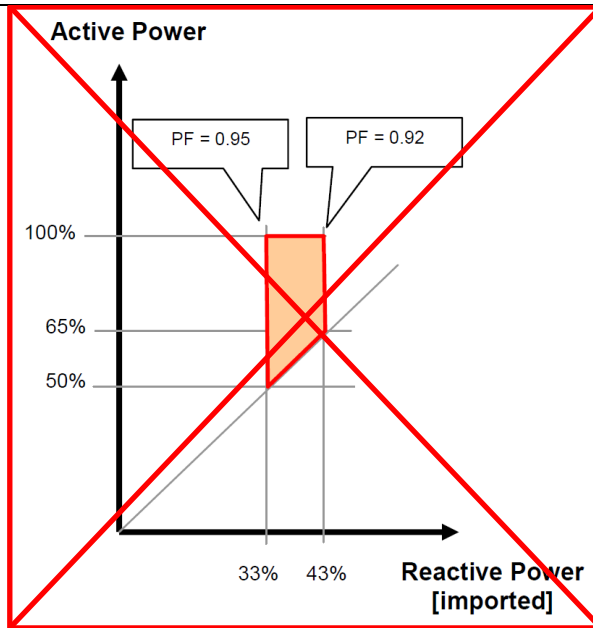


Figure 4412

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

Recent studies completed by EirGrid indicate that there is a significant saving in terms of reactive compensation requirements across the transmission network if Type C- and D-connected WFPSS, whose connection method can support it, can be operated at unity power factor.

IMPLICATIONS OF NOT IMPLEMENTING THIS MODIFICATION

Higher cost of reactive compensation requirements across the transmission system.

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