

Dynamics Model Register

This document outlines the current status of the wind turbine generator dynamic models with respect to the Planning Code Appendix of the Grid Code.

The relevant sections of the **Planning Code Appendix** (PCA4.10.1) can be found here¹.

All transmission connected wind farms and distribution connected wind farms greater than 5 MW are required to submit with their application a dynamic model in compliance with PCA4.10.1. 2.

Wind farms which had 'live' connection offers or had signed connection agreements as of the 9th July 2004 are required by CER Direction CER/04/245 9th July 2004 to provide the dynamic model no later than 120 business days prior to their scheduled date of connection to the power system. The CER Direction CER/04/245 can be found here².

This document lists the models that have been provided to EirGrid and assesses their compliance with the Planning Code Appendix (PCA4.10.1. 2).

Please note all dynamic models must be compliant with PSS/E versions 29 and 30.

¹ <http://www.eirgrid.com/EirGridPortal/uploads/Regulation and Pricing/MPID 126 Approved.pdf>

² <http://www.eirgrid.com/EirGridPortal/uploads/Regulation and Pricing/Wind Connection Policy - cer04245.pdf>

Manufacturer	Model	MW Size (MW)	Version Number	Compliant with Grid Code (Note1)	Reason for non compliance	Remark
Bonus	1.3 MW	1.3	Ver_08	-		This model is currently being tested.
	2.3 MW	2.3	Ver_08	-		This model is currently being tested.
	3.6 MW	3.6	Ver_1	✓		Comments on this model have been sent to Siemens.
DeWind	D6 1.25 MW	1.25	Ver1.2	✓		
	D8 2 MW	2	Ver1.2	✓		
Enercon	E40	0.6	Ver 6.1	✓		
	E48	0.8				
	E66	2.0				
	E70	2				
	E44	0.9	Ver 5.3	-		This model version was received on 12/07/06.

Manufacturer	Model	MW Size (MW)	Version Number	Compliant with Grid Code (Note1)	Reason for non compliance	Remark
Gamesa	G5X (G52 & G58)	0.85	Ver5.2	✓		
	G8X	2	Ver5.3	✓		
GE	1.5 MW	1.5	Ver1.0.0	✓		
	3.6 MW	3.6	Ver1.0.0	✓		
Nordex	N80	2.5	Ver1.05	-		Comments on this model were sent to Nordex on the 24/08/06.
Vestas	V47	0.66	Ver1.0.0	-	Model Clashing issue	New model expected end summer 2006.
	V52	0.85	Ver5.4	✓		Vestas have engaged in meaningful discussions with EirGrid and have submitted a satisfactory proposal to develop a compliant model.
	V66	1.75	Rev 4	✓		
	V80	2	Ver5.4	✓		
	V90	3	Ver5.4	✓		

Notes:

1. Compliance with the Grid Code is assessed based on the requirements of the Planning Code Appendix (PCA.4.10.1). At present, a model can be deemed compliant with PCA4.10.1 without having fulfilled the requirements of the section titled "Validation of Model" (PCA4.10.1.3)