

Active Power Control Groups

Information Note

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1 Introduction

EirGrid can select and apply pre-set frequency deadbands to Power Park Modules (PPMs) to control aspects of their response to system frequency. To manage this process, we have set-up predefined groups of PPMs on which we can remotely, and in real-time, select the response required. These groups are known as Active Power Control (APC) groups. APC groups contain wind farms or solar farms in Ireland. This document provides an overview of APC and presents the currently defined APC groups. We intend to review this document on an annual basis and update to summarise the current configuration. For any queries or comments related to this document please contact info@eirgrid.com.

2 Active Power Control

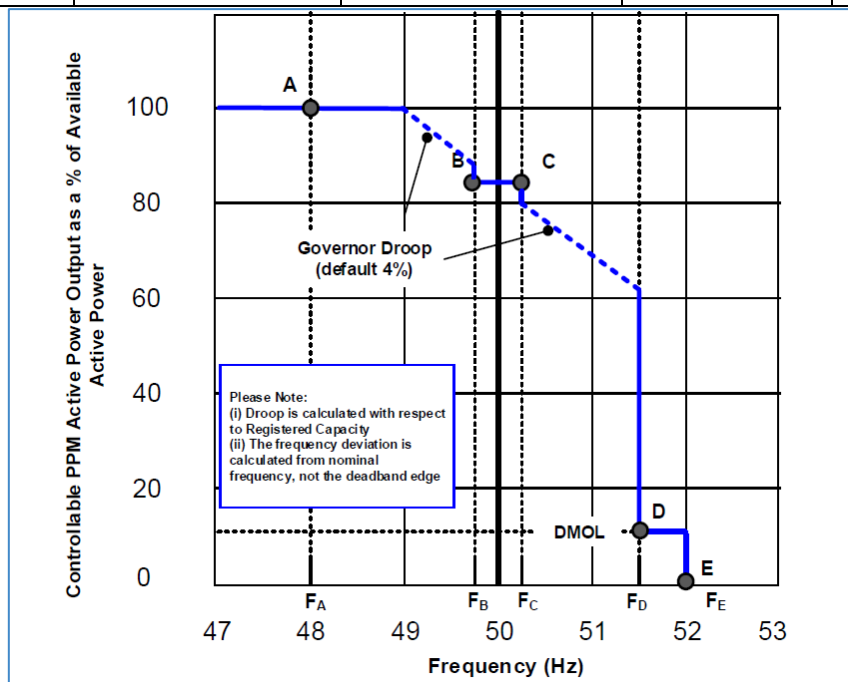
1.1. Frequency Deadband

PPMs operate using the TSO-defined 'Curve 1' settings when APC is disabled and frequency response is enabled. In this mode the PPM is only frequency responsive outside of a deadband of ± 200 mHz. This ensures that the PPMs do not normally adjust their output in response to frequency unless there is a contingency event on the power system such as the tripping of a generator or interconnector.

When frequency response and APC are both 'on', the PPM frequency deadband is reduced to ± 15 mHz. This is the same deadband as the normal setting as most conventional synchronous generators. In this mode PPMs adjust their output much more dynamically to contribute to the control of system frequency under normal, pre-contingency, conditions.

The table and diagram below illustrate the impact of APC on frequency deadband settings.

Active Power Control	Frequency Response	Frequency Deadband	F_B	F_C
Off	On, Curve 1	± 200 mHz	49.800 Hz	50.200 Hz
On	On, Curve 1	± 15 mHz	49.985 Hz	50.015 Hz



Power-Frequency Response Curve for a PPM (EirGrid Grid Code Fig. PPM 1.2)

1.2. Grouping of PPMs

Each controllable PPM in Ireland that is compliant with the 2012 EirGrid Grid Code frequency response provisions developed as part of the DS3 programme is assigned to one of six wind APC groups or two PV groups. These groups facilitate the selective management of frequency response provision where operationally required.

Membership of each APC group is mainly based on ensuring that there are broadly equal total capacities of PPMs within each group. The PPMs in each of the eight APC groups are listed in Appendix 1.

1.3. Turning APC ON/OFF

Historically, group enablement was managed according to specific operating conditions. Under the current operating approach, all groups are to remain enabled at all times, with the exception of the Solar groups, which shall remain disabled. The group configuration will continue to be maintained as new units become operational, and this document will be updated should the group enablement approach change in the future.

Appendix 1 - APC Groups

Below are the PPMs (their three-letter code and MW capacity) in each of the six APC groups (with total MW capacity of each group summated).

PV Group 1		596.60
Ballycullane	JF1	4.90
Ballymacadam	YM1	21.00
Blusheens	JA1	8.00
Castlekelly	TZ1	4.00
Courtown	WN1	4.00
Clonin North	NT1	47.00
Coolyduff	OH1	5.00
Curraghmartin	WF1	4.00
Dromalour	JB1	5.00
Drombeg	DJ1	50.00
Drumgarraiff	WH1	4.90
Gallanstown	IA1	119.00
Gorey	OB1	5.00
Hilltown	HS1	10.00
Lurrig	ND1	4.00
Macallian	NS1	9.00
Millvale North	JD1	8.00
Rathlockstown	IA3	19.00
Rathnaskilloge	RT1	95.00
Rosspile	RO1	95.00
Shanagrigue	SJ1	5.00
Timahoe North	TE1	70.00

PV Group 2		563.16
Beauliu	BR1	4.00
Blundlestown	NA1	60.00
Bullstown	UT1	8.42
Clonfad	OF1	100.00
Cooltubbrid West	TS1	4.00
Crossfield	WR1	5.00
Davidstown	NB1	5.00
Gaskinstown	DE1	80.00
Gillinstown	NB1	95.00
Harlockstown	IA2	31.60
Hortland	HT1	14.00
Knockglass	JG1	4.00
Lehinch	QL1	4.00
Lisnageeragh	LJ1	4.00
Lysaghstown	L0o1	87.00
Painestown Hill	PT1	7.00
Tullabeg	TL1	50.00

Wind Group 1		613.20
Athea	AH1	34.34
Ballincollig	BH1	13.23
Ballybane 1	BA1	27.95
Ballymartin 1	BX1	6.00
Bawnmore	BN1	24.00
Boggeragh 1	BG1	57.00
Boolynagleragh	BJ1	37.01
Bunnyconnellan	GJ1	27.57
Carraigcannon	CD1	20.00
Carrickallen	AL1	20.60
Carrigdangan	XA1	55.00
Cordal 2	DL2	54.00
Lisheen 2	LS2	23.00
Moanvane	QA1	56.40
Seecon	SO1	105.00
Yellow River	YW1	101.00

Wind Group 2		557.51
Ballybay	BS1	13.80
Ballymartin 2	BX2	8.00
Boolinrudda	RD1	44.51
Coollegrean	OG1	18.50
Garracummer	GM1	37.90
Glanaruddery 1	DA1	20.00
Glanthaunyalkeen 1	GC1	10.00
Glencarbry	GY1	33.00
Killin Hill	KL1	6.00
Leanamore	LM1	20.70
Lisheen 3	LS3	28.80
Meenaward	MI1	6.90
Mulreavy 1	MB1	89.00
Raheenleagh	RL1	36.50
Sheskin	SS1	18.00
Sliabh Bawn	SB1	58.00
Oweninney Power 1	OY1	90.20
Teevurcher	TV1	9.00
Tullabrack	TK1	13.80

Wind Group 3		635.40
An Cnoc	AC1	11.50
Ballylongford	LX1	25.2
Boggeragh 2	BG2	65.70
Bruckana	BU1	39.60
Cappawhite B	CP3	13.20
Carrowleagh 2	XR2	2.70
Clahane 1	CJ1	37.80
Cloghboola	CL1	46.00
Cloghervaddy	YV3	10.80
Cronelea 1	CC1	4.60
Derrinlough	DN1	105.00
Derrynadivva Extension	MX3	6.80
Drumlins	LA1	48.80
Killala	KF1	19.20
Knockawarriga 2	KW2	6.60
Knocknagoum	KM1	44.36
Lissycasey	LY1	13.40
Meenwaun	MW1	9.99
Oweninney Power 2	OY2	83.00
Scartaglen	ST1	41.00
Tullynamoyle 3	TM3	13.50

Wind Group 4		589.51
Ballybane 2	BA2	13.05
Ballycumber	YR1	18.00
Black Lough	XL1	12.50
Booltiagh Ext	BT2	12.00
Cloghaneleskirt	KI1	12.00
Cronelea 2	CC2	4.60
Derrysallagh	DS1	32.00
Dromdeeveen	DV1	27.00
Esk	ES1	23.20
Faughary	FU1	6.00
Garraneragh	GG1	8.75
Grousemount	GD1	115.00
Grove Hill	GR1	16.10
Hollyford	HY1	9.00
Kelwin 1	KZ1	37.05
Kill Hill	KH1	36.00
Knockacummer	KC1	100.00
Knockalassa	KD1	26.88
Knockalour	KA1	8.95
Magheramore	MM1	40.80
Scartaglen 2	ST2	5.00
Sorrell Island 1	SF1	24.00
Tullynamoyle 2	TM2	10.00

Wind Group 5		606.35
Beenanaspuck and Tobertoreen	XT1	23.10
Cahermurphy	XM1	6.00
Cappawhite A	CP1	52.00
Carrickeeny	CF1	7.65
Carrowleagh	XR1	35.00
Castlepook	PO1	33.10
Cloghan	NC1	34.00
Cloncreen	OE1	75.00
Cronalaght 2	YC2	18.00
Foyle	FY1	9.20
Gibbet Hill	GT1	14.80
Glanaruddery 2	DA2	12.00
Kilbranish 1	KR1	2.50
Knockaneden	KO1	9.20
Leitir Guingaid	LG1	40.90
Lenalea	LL1	30.10
Lisdowney	LW1	9.50
Lisheen 1	LS1	36.00
Mauricetown	MR1	13.80
Monaincha Bog	MH1	36.00
Mountlucas	MO1	79.20
Raheen Bar 2	MX2	8.00
Raragh 2	RR2	11.50
Sorrell Island 2	SF2	8.00

Wind Group 6		546.55
Ardderoo	UF1	91.20
Ballybane 3	LM1	4.45
Ballykilleen	HW1	50.00
Barranafaddock	BS1	32.40
Clahane 2	BX2	13.80
Cleanrath	NC1	42.64
Clogheravaddy 1	OG1	9.20
Clogheravaddy 2	DA1	10.80
Cordal 1	GC1	35.85
Crossmore 1	QC1	25.00
Derrybrien	GY1	59.50
Killaveenoge	MI1	24.80
Knocknatallig	KQ1	18.30
Knockalough	MB1	33.60
Moneypoint WF	MP9	17.25
Mulreavy Meenadreen South 2	MB2	5.40
Spaddan	SB1	17.50
Taghart	TV1	23.10
Uggool	TK1	64.00
Woodhouse	WS1	20.00