



RoCoF Generator Studies Project: EirGrid Proposal for Generator Categorisation

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EirGrid Proposal for Generator Categorisation

The CER “Rate of Change of Frequency (RoCoF) Modification to the Grid Code” Decision Paper (CER/14/081) published on 4th April 2014 directed EirGrid to categorise each generating unit according to the priority in which their declaration of compliance with the proposed new RoCoF standard should be made in a window from 18 months to 36 months. The categorisation list would then be submitted to CER for approval.

EirGrid’s assessment of prioritisation has been based on consideration of the following:

- Existing High Run-Hours / Constrained-On Units: Units that currently tend to have greater than average run hours during high wind scenarios as they are in merit, constrained on or have priority dispatch.
- Forecast High Run-Hours / Constrained-On Units: PLEXOS analysis of 2020 was used to forecast the run hours of generators during high wind scenarios.

EirGrid’s proposed categorisation for generating units in Ireland is shown in Figure 1. For information, the proposed categorisation for generating units in Northern Ireland is also shown in Figure 1.

Points to note:

1. This categorisation is focused on synchronous generation only. EirGrid is engaging with wind-farms, DSUs and HVDC Interconnectors separately regarding compliance.
2. EirGrid is not proposing exemption of any existing generator from the prioritisation list unless notification of closure has been provided (only Great Island units 1, 2, and 3 are currently in this category).
3. Units with low run hours, such as OCGTs, make up an important part of the overall generation fleet and should be compatible with the fundamental operating characteristics of the power system.
4. New generators and DSUs are expected to declare their compliance or seek a derogation during commissioning.

Category	Northern Ireland Units				Ireland Units			
	Station	Unit ID	Capacity (MW)	Owner	Station	Unit ID	Capacity (MW)	Owner
1- High Priority 18 mths	Kilroot	K1	194	AES	Turlough Hill	TH1	73	ESB
		K2	194	AES		TH2	73	ESB
	Ballylumford	B10	97	AES		TH3	73	ESB
		B31	245	AES		TH4	73	ESB
	Coolkeeragh	B32	245	AES	Moneypoint	MP1	285	ESB
		C30	402	ESB		MP2	285	ESB
						MP3	285	ESB
					Sealrock	SK3	81	AAL
						SK4	81	AAL
					Poolbeg CCGT	PBC	463	ESB
					Aghada CCGT	AD2	431	ESB
					Whitegate CCGT	WG1	444	Centrica
					Edenderry	ED1	118	EPL
					Meath W2E	IW1	15	Indaver
2- Mid Priority 24 mths	(UR decision does not reference a 24 month period)				Huntstown	HNC	337	Viridian
						HN2	395	Viridian
					Dublin Bay	DB1	399	SynerGen
					Tynagh	TYC	384	TPL
					Aghada	AD1	258	ESB
3 - Low Priority 36 mths	Ballylumford	BST4	170	AES	Edenderry OCGTs	ED3	58	EPL
		BST5	170	AES		ED5	58	EPL
		BST6	170	AES	Tawnaghmore	TP1	52	SSE
		BGT1	58	AES		TP3	52	SSE
	Kilroot	BGT2	58	AES	Rhode	RP1	52	SSE
		KTG1	29	AES		RP2	52	SSE
		KTG2	29	AES	Aghada OCGTs	AT1	90	ESB
		KTG3	42	AES		AT2	90	ESB
		KTG4	42	AES		AT4	90	ESB
	Coolkeeragh	CTG8	53	ESB	Tarbert	TB1	54	SSE
		AGU*	12	Contour Global		TB2	54	SSE
		AGU*	74	iPower		TB3	241	SSE
		AGU*		EmPower		TB4	243	SSE
	*Further consideration required for AGUs connected at and below 33kV.				Lough Ree	LR4	91	ESB
					West Offaly	WO4	137	ESB
					Ardnacrusha	AA1-4	86	ESB
					Erne	ER1-4	65	ESB
					Lee	LE1-3	27	ESB
					Liffey	LI1,2,4,5	38	ESB
					Marina	MRC	88	ESB
					North Wall	NW5	104	ESB
4 - Exempted (Closing)	(None)				Great Island	GI1	54	SSE
						GI2	49	SSE
						GI3	109	SSE
5 - New (Currently undergoing compliance assessment)	(None)				Great Island CCGT	GI4	431	SSE

Figure 1: Proposed categorisation of generating units