

Appendix G Zone and grid section definitions

This appendix provides definitions of the 12 geographical zones and nine grid sections referenced in this Transmission Annual Planning Report (TAPR).

Tables G.1 and G.2 provide detailed definitions of zone and grid sections.

Table G.3 provides details of the name and type of generation connected to the transmission system in each zone.

Figure G.1 provides illustrations of the grid section definitions.

Table G.1 Zone definitions

Zone	Area covered
Far North	North of Guybal Munjan and Tully
Ross	North of King Creek and Bowen North, excluding the Far North and North West zones
North West	Mount Isa and Cloncurry
North	North of Broadsound and Dysart, excluding the Far North, North and Ross zones
Central West	South of Nebo, Peak Downs and Mt McLaren, and north of Gin Gin, but excluding the Gladstone zone
Gladstone	South of Raglan, north of Gin Gin and east of Calvale
Wide Bay	Gin Gin, Teebar Creek and Woolooga 275kV substation loads, excluding Gympie
Surat	West of Western Downs and south of Moura, excluding the Bulli zone
Bulli	Goondiwindi (Waggamba) load and the 275/330kV network south of Kogan Creek and west of Middle Ridge
South West	Tarong and Middle Ridge load areas west of Postmans Ridge, excluding the Bulli zone
Moreton	South of Woolooga and east of Middle Ridge, but excluding the Gold Coast zone
Gold Coast	East of Greenbank, south of Coomera to the Queensland/New South Wales border

Table G.2 Grid Section Definitions (1)

Grid Section	Area covered
FNQ	Guybal Munjan into Chalumbin 275kV (2 circuits) Ross/Tully into Woree 275kV (1 circuit) Tully into El Arish 132kV (1 circuit)
NWQ	Flinders 500kV (2 circuits) to future 500kV substation in Ross area (2 circuits)
CQ-NQ	Bouldercombe into Nebo 275kV (1 circuit) Broadsound into Nebo 275kV (3 circuits) Dysart to Peak Downs/Moranbah 132kV (1 circuit) Dysart to Eagle Downs 132kV (1 circuit)
Gladstone	Bouldercombe into Calliope River 275kV (1 circuit) Raglan into Larcom Creek 275kV (1 circuit) Calvale into Wurdong 275kV (1 circuit)
CQ-SQ	Wurdong to Teebar Creek 275kV (1 circuit) Calliope River to Gin Gin/Woolooga 275kV (2 circuits) Calvale into Halys 275kV (2 circuits)
Surat	Western Downs to Columboola 275kV (1 circuit) Western Downs to Orana 275kV (1 circuit)
SWQ	Western Downs to Halys 275kV (1 circuit) Western Downs to Coopers Gap 275kV (1 circuit) Braemar (East) to Halys 275kV (2 circuits) Tummalville to Middle Ridge 330kV (2 circuits)
Tarong	Tarong to South Pine 275kV (1 circuit) Tarong to Mt England 275kV (2 circuits) Tarong to Blackwall 275kV (2 circuits) Middle Ridge to Greenbank 275kV (2 circuits)
Gold Coast	Greenbank into Mudgeeraba 275kV (2 circuits) Greenbank into Molendinar 275kV (2 circuits) Coomera into Cades County 110kV (1 circuit)

Note:

- (1) The grid sections defined are as illustrated in Figure F.1. X into Y – the megawatt (MW) flow between X and Y measured at the Y end; X to Y – the MW flow between X and Y measured at the X end.

Table G.3 Zone generation details

Zone	Generator	Coal-fired	Gas turbine	Hydro-electric	Solar PV	Wind	Battery	Sugar mill
Far North	Barron Gorge			•				
	Kareeya			•				
	Koombooloomba			•				
	Mt Emerald					•		
	Kaban					•		
Ross	Townsville		•					
	Mt Stuart		•					
	Kidston (1)			•				
	Clare				•			
	Haughton				•			
	Ross River				•			
	Sun Metals				•			
	Invicta							•
North	Daydream				•			
	Hamilton				•			
	Hayman				•			
	Whitsunday				•			
	Rugby Run				•			
Central West	Callide B	•						
	Callide PP	•						
	Stanwell	•						
	Lilyvale				•			
	Moura				•			
	Broadsound (1)				•			
	Aldoga				•			
	Lotus Creek (1)					•		
	Clarke Creek					•		
	Boulder Creek (1)					•		
	Bouldercombe						•	
Gladstone	Gladstone	•						
	Yarwun		•					
Wide Bay	Woolooga Energy Park				•			
	Woolooga (1)						•	

Table G.3: Zone generation details (*continued*)

Zone	Generator	Coal-fired	Gas turbine	Hydro-electric	Solar PV	Wind	Battery	Sugar mill
Moreton	Swanbank E		•					
	Wivenhoe			•				
	Greenbank						•	
	Brendale						•	
	Supernode 1 & 2 (1)						•	
	Swanbank (1)						•	
South West	Tarong	•						
	Tarong North	•						
	Oakey		•					
	Wambo					•		
	Wambo 2 (1)					•		
	Coopers Gap					•		
	Tarong						•	
Bulli	Kogan Creek	•						
	Millmerran	•						
	Braemar 1		•					
	Braemar 2		•					
	Darling Downs		•					
	Darling Downs				•			
	Western Downs Green Power Hub				•			
	Punchs Creek (1)				•		•	
	MacIntyre					•		
	Chinchilla						•	
	Ulinda Park						•	
	Western Downs						•	
Surat	Condamine		•					
	Columboola				•			
	Gangarri				•			
	Blue grass				•			
	Edenvale				•			
	Wandoan				•			
	Wandoan						•	

Note:

(1) Committed generation that is yet to begin production.

Figure G.1: Grid Section Legend

