

# Appendix A Compendium

## Forecast of connection point maximum demands

### Customer forecasts of connection point peaks

Tables A.1 to A.18 show 10-year forecasts of summer and winter native demand at connection point peak, for high, medium and low growth scenarios (refer to Appendix A.2). These forecasts have been supplied by Powerlink customers.

The connection point reactive power (MVA<sub>r</sub>) forecast includes the customer's downstream capacitive compensation.

Groupings of some connection points are used to protect the confidentiality of specific customer loads.

In tables A.1 to A.18 the zones in which connection points are located are abbreviated as follows:

FN	Far North zone
R	Ross zone
N	North zone
CW	Central West zone
G	Gladstone zone
WB	Wide Bay zone
S	Surat zone
B	Bulli zone
SW	South West zone
M	Moreton zone
GC	Gold Coast zone

Table A.1 Ergon connection point forecast of summer high growth native maximum demand

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Alan Sherriff	132	R	31	7	31	8	32	8	33	8	34	8	36	9	37	9	38	9	40	10	42	10
Aligator Creek (Louisa Creek)	132	N	42	13	42	13	43	14	45	14	46	14	48	15	49	16	51	16	52	16	53	17
Alligator Creek	33	N	34	8	35	8	36	9	37	9	38	9	40	10	41	10	43	10	45	11	47	11
Biloela	66	CW	32	3	32	3	33	3	34	3	35	3	36	3	37	3	39	4	40	4	42	4
Blackwater	132	CW	23	7	24	7	24	7	36	11	49	15	51	15	52	16	54	16	55	16	56	17
Blackwater	66	CW	138	26	140	26	143	27	147	27	152	28	158	29	163	30	167	31	171	32	174	32
Bowen North	66	N	30	5	31	5	32	5	32	5	33	5	35	6	36	6	37	6	39	6	40	6
Bull Creek (Waggamba)	132	B	21	6	21	6	22	6	22	6	23	6	24	7	24	7	25	7	26	7	26	7
Cairns	22	FN	62	3	63	3	65	3	66	3	69	3	72	3	74	3	77	3	81	3	85	4
Cairns City	132	FN	51	0	52	0	53	0	54	0	56	0	58	0	60	0	62	0	64	0	67	0
Calliope River	132	G	60	7	61	7	63	8	64	8	66	8	69	8	71	9	73	9	75	9	78	9
Cardwell	22	R	5	1	5	1	6	1	6	1	6	2	6	2	6	2	7	2	7	2	7	2
Chinchilla	132	S	20	3	20	3	21	3	21	3	22	3	23	3	24	3	25	4	25	4	26	4
Clare South	66	R	82	23	84	23	85	24	88	25	90	25	94	26	97	27	100	28	103	29	106	30
Collinsville North	33	N	16	3	17	3	17	3	17	3	18	4	19	4	19	4	20	4	20	4	21	4
Columboola	132	S	80	9	81	9	83	9	85	9	87	10	91	10	94	10	97	11	100	11	103	11
Dan Gleeson	66	R	113	3	115	4	118	4	117	3	121	3	127	3	132	3	137	3	143	4	150	4
Dysart	66	CW	43	9	44	9	45	10	51	11	57	12	68	15	79	17	81	17	83	18	84	18
Edmonton	22	FN	50	4	51	4	53	4	54	4	57	4	60	4	62	4	65	5	68	5	72	5
Egans Hill	66	CW	61	-7	64	-14	66	-14	68	-14	70	-14	74	-14	76	-15	80	-15	83	-14	88	-14
El Arish	22	FN	7	0	7	0	7	0	7	0	7	0	7	0	8	0	8	0	9	0	9	1
Garbutt	66	R	101	3	103	3	106	3	104	3	108	3	113	3	118	3	123	3	128	3	134	3
Gin Gin	132	WB	166	16	169	17	173	17	178	17	184	18	192	19	200	20	208	20	219	21	230	23
Gladstone South	66	G	43	3	44	3	45	3	47	3	48	3	51	3	53	3	55	4	57	4	60	4

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**Table A.1** Ergon connection point forecast of summer high growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Ingham	66	R	23	1	23	1	24	1	24	1	25	1	26	1	27	1	28	1	29	1	30	1
Innisfail	22	FN	30	4	31	4	32	5	33	5	34	5	35	5	36	5	37	5	38	5	40	6
Kamerunga	22	FN	66	3	68	3	70	3	72	3	75	3	78	3	81	3	84	3	88	3	92	4
Lilyvale (Barcardine and Clermont)	132	CW	46	14	46	14	47	15	49	15	50	15	53	16	54	17	56	17	58	18	60	18
Lilyvale	66	CW	142	55	144	56	148	57	152	59	157	60	163	63	168	65	172	66	177	68	181	70
Mackay	33	N	100	6	101	6	103	6	106	6	110	7	115	7	119	7	124	7	129	8	136	8
Middle Ridge	110	SW	239	48	244	49	250	51	257	52	266	54	278	56	289	58	302	61	318	64	336	68
Middle Ridge (Postmans Ridge)	110	M	13	3	13	3	14	3	14	3	15	3	15	4	16	4	16	4	17	4	18	4
Moranbah (Broadlea)	132	N	63	16	64	17	65	17	67	18	69	18	72	19	74	19	76	20	77	20	79	21
Moranbah	66 and 11	N	134	44	136	45	140	46	144	47	148	48	154	50	158	52	162	53	166	54	170	55
Moura	66	CW	67	22	69	23	70	23	72	24	74	25	77	26	79	26	81	27	83	28	85	28
Nebo	11	N	4	0	4	0	4	0	4	0	4	0	4	1	4	1	4	1	4	1	5	1
Newlands	66	N	27	4	27	4	28	4	28	4	29	5	30	5	31	5	32	5	33	5	34	5
Oakey	110	SW	19	7	19	7	20	7	20	8	21	8	22	8	22	8	23	9	24	9	25	9
Pandoin	66	CW	43	-5	45	-10	46	-10	47	-10	49	-10	51	-10	53	-10	56	-10	58	-10	61	-10
Pioneer Valley	66	N	85	15	87	15	89	16	92	16	95	17	99	17	103	18	106	19	110	19	114	20
Proserpine	66	N	56	11	57	11	59	11	61	11	62	12	65	12	68	13	70	13	73	14	76	14
Rockhampton	66	CW	107	-12	112	-24	114	-24	118	-24	122	-24	128	-24	133	-26	139	-25	145	-25	153	-24
Ross (Kidston, Millichester and Georgetown)	132	R	51	9	51	9	53	10	54	10	56	10	58	11	60	11	61	11	63	12	65	12
Stony Creek	132	N	3	1	3	1	3	1	3	1	3	2	3	2	3	2	3	2	3	2	3	2
Tangkam	110	SW	33	6	35	6	36	6	37	6	38	7	40	7	41	7	43	7	45	8	47	8
Tarong	66	SW	47	11	48	12	50	12	51	12	53	13	55	13	57	14	59	14	61	15	64	15

**Table A.1** Ergon connection point forecast of summer high growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Teabar Creek (Isis and Maryborough)	132	WB	161	47	167	49	173	50	180	52	185	54	194	56	201	58	209	61	219	64	230	67
Townsville East	66	R	42	4	43	4	44	4	43	3	45	4	47	4	49	3	51	3	53	3	56	4
Townsville South	66	R	100	3	103	3	106	3	104	3	108	3	113	3	117	3	122	3	128	3	134	3
Tully	22	R	16	1	16	1	17	1	17	1	18	1	18	1	19	1	20	1	21	1	22	1
Turkinje (Craigie and Lakeland)	132	FN	24	15	25	15	37	23	39	24	40	24	42	25	43	26	45	27	47	29	49	30
Turkinje	66	FN	65	3	66	3	57	3	59	3	60	3	63	3	66	3	69	4	72	4	76	4
Woolooga (Kilkivan)	132	WB	18	4	19	4	20	4	20	4	21	4	22	4	22	5	23	5	25	5	26	5
Woree (Cairns North)	132	FN	50	3	51	3	52	3	53	3	55	3	58	3	60	3	63	3	66	4	70	4
Yarwun (Boat Creek)	132	G	44	17	45	17	47	18	48	18	49	19	51	19	53	20	54	20	55	21	56	21
Hail Creek and King Creek	Various	N	37	6	38	7	39	7	40	7	41	7	43	7	44	8	45	8	46	8	47	8

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**Table A.2** Ergon connection point forecast of summer medium growth native maximum demand

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Alan Sherriff	132	R	31	7	31	7	31	8	31	8	31	8	31	8	32	8	32	8	34	8	35	8	36	9
Aligator Creek (Louisa Creek)	132	N	41	13	42	13	42	13	42	13	42	13	43	14	43	14	44	14	44	14	45	14	46	14
Alligator Creek	33	N	34	8	34	8	35	8	35	8	35	8	36	9	36	9	38	9	38	9	39	9	41	10
Biloela	66	CW	31	3	32	3	32	3	32	3	32	3	33	3	33	3	34	3	34	3	35	3	36	3
Blackwater	132	CW	23	7	23	7	24	7	34	10	45	13	46	14	46	14	47	14	47	14	48	14	48	15
Blackwater	66	CW	137	25	138	26	139	26	140	26	139	26	142	26	143	27	145	27	145	27	148	27	151	28
Bowen North	66	N	30	5	30	5	30	5	31	5	31	5	31	5	32	5	33	5	33	5	33	5	35	5
Bull Creek (Waggamba)	132	B	20	6	21	6	21	6	21	6	21	6	21	6	21	6	22	6	22	6	22	6	22	6
Cairns	22	FN	62	3	62	3	62	3	63	3	63	3	64	3	65	3	68	3	68	3	70	3	74	3
Cairns City	132	FN	51	0	51	0	51	0	51	0	51	0	52	0	53	0	54	0	54	0	56	0	58	0
Calliope River	132	G	60	7	60	7	61	7	61	7	61	7	62	7	63	7	64	8	64	8	65	8	67	8
Cardwell	22	R	5	1	5	1	5	1	5	1	5	1	6	1	6	1	6	1	6	1	6	1	6	2
Chinchilla	132	S	20	3	20	3	20	3	20	3	20	3	21	3	21	3	21	3	21	3	22	3	23	3
Clare South	66	R	82	23	82	23	83	23	83	23	83	23	84	24	85	24	87	25	87	25	89	25	92	26
Collinsville North	33	N	16	3	16	3	16	3	16	3	16	3	17	3	17	3	17	3	17	3	17	4	18	4
Columboola	132	S	79	9	80	9	80	9	80	9	80	9	82	9	82	9	84	9	84	9	86	10	89	10
Dan Gleeson	66	R	112	3	113	3	114	3	111	3	111	3	114	3	116	3	120	3	120	3	124	3	130	3
Dysart	66	CW	42	9	43	9	43	9	48	10	52	11	61	13	69	15	71	15	71	15	72	15	73	16
Edmonton	22	FN	49	4	50	4	51	4	51	4	52	4	54	4	55	4	57	4	57	4	59	4	62	4
Egans Hill	66	CW	61	-7	63	-14	64	-13	64	-13	64	-13	66	-12	67	-12	70	-12	70	-12	72	-11	76	-11
El Arish	22	FN	6	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	8	0
Garbutt	66	R	100	3	101	3	102	3	99	3	99	3	102	3	103	3	107	3	107	3	111	3	116	3
Gin Gin	132	WB	164	16	166	16	168	16	169	17	169	17	173	17	175	17	182	18	182	18	189	19	199	19
Gladstone South	66	G	43	3	44	3	44	3	44	3	44	3	46	3	46	3	48	3	48	3	50	3	52	3

Table A.2 Ergon connection point forecast of summer medium growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Ingham	66	R	23	1	23	1	23	1	23	1	23	1	23	1	23	1	24	1	24	1	25	1	26	1
Innisfail	22	FN	30	4	30	4	30	4	30	4	30	4	31	4	31	4	32	5	32	5	33	5	35	5
Kamerunga	22	FN	66	2	67	3	67	3	68	3	68	3	70	3	71	3	74	3	74	3	76	3	80	3
Lilyvale (Barcalaine and Clermont)	132	CW	45	14	46	14	46	14	46	14	46	14	47	14	48	15	49	15	49	15	50	15	52	16
Lilyvale	66	CW	141	54	142	55	143	55	144	55	144	55	147	56	147	57	151	58	151	58	153	59	157	60
Mackay	33	N	99	6	100	6	100	6	101	6	101	6	103	6	104	6	108	6	108	6	112	7	117	7
Middle Ridge	110	SW	237	48	239	48	242	49	243	49	244	49	250	51	254	51	264	53	264	53	275	56	291	59
Middle Ridge (Postmans Ridge)	110	M	13	3	13	3	13	3	13	3	13	3	14	3	14	3	14	3	14	3	15	3	15	4
Moranbah (Broadlea)	132	N	62	16	63	16	63	17	64	17	64	17	65	17	65	17	66	17	66	17	67	18	68	18
Moranbah	66 and 11	N	133	43	134	44	135	44	136	44	136	44	138	45	139	45	142	46	142	46	144	47	147	48
Moura	66	CW	66	22	67	22	68	23	68	23	68	23	69	23	70	23	71	24	71	24	72	24	74	24
Nebo	11	N	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	1
Newlands	66	N	26	4	27	4	27	4	27	4	27	4	27	4	28	4	28	4	28	4	28	4	29	4
Oakey	110	SW	19	7	19	7	19	7	19	7	19	7	19	7	20	7	20	8	20	8	21	8	21	8
Pandoin	66	CW	43	-5	44	-10	44	-9	45	-9	45	-9	46	-9	47	-8	49	-8	49	-8	50	-8	53	-8
Pioneer Valley	66	N	84	15	85	15	86	15	87	15	87	15	89	16	90	16	93	16	93	16	95	17	99	17
Proserpine	66	N	56	11	56	11	57	11	57	11	57	11	59	11	59	11	61	12	61	12	63	12	66	12
Rockhampton	66	CW	106	-12	110	-24	111	-23	112	-23	112	-22	115	-22	117	-21	121	-20	121	-20	126	-19	132	-19
Ross (Kidston, Millicester and Georgetown)	132	R	50	9	51	9	51	9	51	9	51	9	52	9	52	10	54	10	54	10	55	10	56	10
Stony Creek	132	N	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	2
Tangkam	110	SW	33	6	35	6	35	6	35	6	35	6	36	6	36	6	37	6	37	6	39	7	40	7
Tarong	66	SW	47	11	48	11	48	11	48	12	48	12	49	12	50	12	51	12	51	12	53	13	55	13

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**Table A.2** Ergon connection point forecast of summer medium growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Teebar Creek (Iris and Maryborough)	132	WB	160	47	165	48	168	49	170	49	170	49	174	51	176	51	183	53	190	55	199	58		
Townsville East	66	R	42	4	42	4	43	4	41	3	41	3	42	3	43	3	44	4	46	4	48	4		
Townsville South	66	R	100	3	101	3	102	3	99	3	99	3	102	3	103	3	107	3	111	3	116	3		
Tully	22	R	16	1	16	1	16	1	16	1	16	1	16	1	17	1	17	1	18	1	19	1		
Turkinje (Craigie and Lakeland)	132	FN	24	15	24	15	36	22	36	22	37	22	37	23	38	23	39	24	40	25	42	26		
Turkinje	66	FN	64	3	65	3	55	3	55	3	57	3	57	3	58	3	60	3	62	3	66	3		
Woolooga (Kilkivan)	132	WB	18	4	18	4	19	4	19	4	19	4	19	4	20	4	20	4	21	4	23	5		
Woree (Caims North)	132	FN	49	3	50	3	50	3	51	3	51	3	52	3	53	3	55	3	57	3	60	3		
Yarwun (Boat Creek)	132	G	44	16	45	17	45	17	45	17	45	17	46	17	46	17	47	18	48	18	48	18		
Hail Creek and King Creek	Various	N	37	6	38	6	38	6	38	7	38	7	39	7	39	7	40	7	40	7	41	7		

**Table A.3** Ergon connection point forecast of summer low growth native maximum demand

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Alan Sherriff	132	R	30	7	31	7	30	7	31	7	30	7	31	7	31	7	31	8	31	8	32	8
Aligator Creek (Louisa Creek)	132	N	41	13	41	13	41	13	42	13	41	13	42	13	41	13	41	13	41	13	40	13
Alligator Creek	33	N	34	8	34	8	34	8	34	8	34	8	35	8	35	8	35	8	35	8	36	9
Biloela	66	CW	31	3	31	3	31	3	31	3	31	3	31	3	31	3	31	3	31	3	32	3
Blackwater	132	CW	23	7	23	7	23	7	34	10	44	13	44	13	44	13	43	13	43	13	42	13
Blackwater	66	CW	135	25	137	25	136	25	137	26	136	25	137	25	136	25	135	25	133	25	132	25
Bowen North	66	N	30	5	30	5	30	5	30	5	30	5	30	5	30	5	30	5	30	5	30	5
Bull Creek (Waggamba)	132	B	20	6	21	6	20	6	21	6	20	6	21	6	20	6	20	6	20	6	20	6
Cairns	22	FN	61	3	62	3	61	3	62	3	61	3	62	3	62	3	63	3	63	3	65	3
Cairns City	132	FN	50	0	51	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	51	0
Calliope River	132	G	59	7	60	7	60	7	60	7	59	7	60	7	59	7	59	7	59	7	59	7
Cardwell	22	R	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1
Chinchilla	132	S	20	3	20	3	20	3	20	3	20	3	20	3	20	3	20	3	20	3	20	3
Clare South	66	R	81	23	82	23	81	23	81	23	81	23	81	23	81	23	81	23	81	23	81	23
Collinsville North	33	N	16	3	16	3	16	3	16	3	16	3	16	3	16	3	16	3	16	3	16	3
Columboola	132	S	78	9	79	9	79	9	79	9	78	9	79	9	78	9	78	9	78	9	78	9
Dan Gleeson	66	R	111	3	113	3	112	3	108	3	108	3	109	3	110	3	111	3	112	3	114	3
Dysart	66	CW	42	9	43	9	42	9	47	10	51	11	59	13	66	14	65	14	65	14	64	14
Edmonton	22	FN	49	4	50	4	50	4	51	4	51	4	51	4	52	4	53	4	53	4	54	4
Egans Hill	66	CW	60	-7	63	-14	62	-13	63	-13	63	-12	64	-12	64	-11	64	-11	65	-10	66	-10
El Arish	22	FN	6	0	6	0	6	0	6	0	6	0	6	0	6	0	7	0	7	0	7	0
Garbutt	66	R	99	3	101	3	100	3	97	3	97	3	98	3	98	3	99	3	100	3	102	3
Gin Gin	132	WB	163	16	165	16	165	16	166	16	165	16	166	16	167	16	168	16	171	17	175	17
Gladstone South	66	G	43	3	43	3	43	3	43	3	43	3	44	3	44	3	44	3	45	3	46	3

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**Table A.3** Ergon connection point forecast of summer low growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Ingham	66	R	22	1	23	1	22	1	22	1	22	1	22	1	22	1	22	1	22	1	22	1
Innisfail	22	FN	30	4	30	4	30	4	30	4	29	4	30	4	30	4	30	4	30	4	30	4
Kamerunga	22	FN	65	2	66	3	66	3	67	3	67	3	67	3	68	3	68	3	69	3	70	3
Lilyvale (Barcaldine and Clermont)	132	CW	45	14	45	14	45	14	45	14	45	14	45	14	45	14	45	14	45	14	46	14
Lilyvale	66	CW	139	54	141	54	140	54	141	54	140	54	141	54	140	54	139	54	138	53	138	53
Mackay	33	N	98	6	99	6	98	6	99	6	98	6	99	6	99	6	100	6	101	6	103	6
Middle Ridge	110	SW	235	47	238	48	237	48	239	48	238	48	240	49	241	49	244	49	249	50	255	52
Middle Ridge (Postmans Ridge)	110	M	13	3	13	3	13	3	13	3	13	3	13	3	13	3	13	3	13	3	13	3
Moranbah (Broadlea)	132	N	62	16	62	16	62	16	62	16	62	16	62	16	62	16	61	16	60	16	60	16
Moranbah	66 and 11	N	131	43	133	44	132	43	133	44	132	43	133	43	132	43	131	43	130	42	129	42
Moura	66	CW	65	22	67	22	67	22	67	22	66	22	67	22	66	22	66	22	65	22	65	21
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	4	0
Newlands	66	N	26	4	26	4	26	4	26	4	26	4	26	4	26	4	26	4	26	4	25	4
Oakey	110	SW	18	7	19	7	19	7	19	7	18	7	19	7	19	7	19	7	19	7	19	7
Pandoin	66	CW	42	-5	44	-9	44	-9	44	-9	44	-9	44	-8	45	-8	45	-8	46	-7	46	-7
Pioneer Valley	66	N	84	15	85	15	85	15	85	15	85	15	86	15	86	15	86	15	86	15	86	15
Proserpine	66	N	55	10	56	11	56	11	56	11	56	11	56	11	56	11	57	11	57	11	58	11
Rockhampton	66	CW	105	-12	109	-24	109	-23	110	-22	109	-21	111	-21	111	-20	112	-19	114	-18	116	-17
Ross (Kidston, Millicester and Georgetown)	132	R	50	9	50	9	50	9	50	9	50	9	50	9	50	9	50	9	50	9	49	9
Stony Creek	132	N	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Tangkam	110	SW	33	6	34	6	34	6	34	6	34	6	35	6	34	6	35	6	35	6	35	6
Tarong	66	SW	46	11	47	11	47	11	47	11	47	11	47	11	47	11	48	11	48	11	49	12

**Table A.3** Ergon connection point forecast of summer low growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	
Teebar Creek (Isis and Maryborough)	132	WB	159	46	46	164	48	165	48	167	48	166	48	167	49	168	49	169	49	171	50	175	51
Townsville East	66	R	41	4	42	4	42	4	40	3	40	3	41	3	41	3	41	3	41	3	42	3	
Townsville South	66	R	99	3	100	3	100	3	97	3	97	3	98	3	98	3	99	3	100	3	102	3	
Tully	22	R	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	
Turkinje (Craigie and Lakeland)	132	FN	24	15	24	15	36	22	36	22	36	22	36	22	36	22	36	22	37	22	37	23	
Turkinje	66	FN	63	3	64	3	54	3	54	3	54	3	55	3	55	3	55	3	56	3	58	3	
Woolooga (Kilkivan)	132	WB	18	4	18	4	19	4	19	4	19	4	19	4	19	4	19	4	19	4	20	4	
Woree (Cairns North)	132	FN	49	3	49	3	49	3	50	3	49	3	50	3	50	3	51	3	52	3	53	3	
Yarwun (Boat Creek)	132	G	43	16	44	17	44	17	44	17	44	17	44	17	44	17	44	16	43	16	42	16	
Hail Creek and King Creek	Various	N	37	6	37	6	37	6	37	6	37	6	37	6	37	6	37	6	36	6	36	6	

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**Table A.4** Ergon connection point forecast of winter high growth native maximum demand

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Alan Sherriff	132	R	19	2	19	2	19	2	19	2	19	2	20	2	20	2	20	2	21	2	22	2
Aligator Creek (Louisa Creek)	132	N	38	11	38	11	39	11	39	11	40	11	40	12	41	12	41	12	41	12	41	12
Alligator Creek	33	N	21	3	22	3	22	3	22	3	22	3	23	3	23	3	24	3	24	3	25	3
Biloela	66	CW	29	6	29	6	30	6	30	6	30	6	31	6	31	6	31	6	32	6	32	7
Blackwater	132	CW	22	10	22	10	23	10	23	10	23	10	24	10	24	10	24	10	24	10	24	20
Blackwater	66	CW	113	8	115	8	116	8	118	8	118	8	120	8	121	9	122	9	122	9	122	9
Bowen North	66	N	23	6	23	6	24	6	24	6	24	6	24	6	25	6	25	6	25	7	26	7
Bull Creek (Waggamba)	132	B	22	8	23	8	23	8	23	8	23	8	24	8	24	8	24	8	24	8	24	8
Cairns	22	FN	36	1	37	1	38	1	38	1	38	1	39	1	39	1	40	2	41	2	42	2
Cairns City	132	FN	28	0	28	0	29	0	29	0	29	0	29	0	30	0	30	0	31	0	31	0
Calliope River	132	G	47	4	47	4	48	4	49	4	49	4	49	4	50	4	50	4	51	5	51	5
Cardwell	22	R	3	1	3	1	3	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1
Chinchilla	132	S	16	1	16	1	16	1	16	1	17	1	17	1	17	1	17	1	17	1	18	1
Clare South	66	R	54	5	54	5	55	5	55	5	56	6	57	6	57	6	58	6	58	6	59	6
Collinsville North	33	N	16	4	17	4	17	4	17	4	17	4	17	4	17	4	18	4	18	4	18	4
Columboola	132	S	70	18	71	18	72	18	72	18	73	19	74	19	75	19	76	19	76	20	77	20
Dan Gleeson	66	R	67	8	68	8	69	8	69	8	66	6	67	6	69	5	70	5	72	5	74	5
Dysart	66	CW	40	8	41	8	46	9	52	10	62	12	72	14	72	14	73	14	73	14	73	14
Edmonton	22	FN	34	7	35	7	35	7	36	7	36	8	37	8	38	8	39	8	40	8	42	9
Egans Hill	66	CW	55	1	56	1	57	1	58	1	58	1	59	1	61	1	62	1	63	1	65	1
El Arish	22	FN	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	6	0	6	0
Garbutt	66	R	67	8	68	8	69	8	65	6	66	6	67	6	69	5	70	5	72	5	74	5
Gin Gin	132	WB	130	9	132	9	133	9	135	9	136	9	139	9	141	9	145	10	149	10	154	10
Gladstone South	66	G	54	11	55	11	56	11	56	12	57	12	58	12	59	12	60	12	61	13	63	13

**Table A.4** Ergon connection point forecast of winter high growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Ingham	66	R	14	2	14	2	14	2	15	2	15	2	15	2	15	2	15	2	16	2	16	2
Innisfail	22	FN	20	1	20	1	20	1	21	2	21	2	21	2	21	2	22	2	22	2	23	2
Kamerunga	22	FN	40	5	41	5	41	5	42	5	42	5	43	5	44	5	45	5	46	6	47	6
Lilyvale (Barcaldine and Clermont)	132	CW	36	14	36	14	37	14	37	14	37	14	38	14	38	15	39	15	39	15	40	15
Lilyvale	66	CW	138	53	139	54	141	55	143	55	144	56	146	56	147	57	148	57	149	58	149	58
Mackay	33	N	61	7	62	7	63	8	64	8	64	8	65	8	66	8	68	8	69	8	71	9
Middle Ridge	110	SW	286	48	290	48	293	49	298	50	300	50	306	51	313	52	321	54	332	55	344	57
Middle Ridge (Postmans Ridge)	110	M	12	3	13	3	13	3	13	3	13	4	13	4	13	4	14	4	14	4	14	4
Moranbah (Broadlea)	132	N	58	13	59	13	60	13	61	13	61	13	62	13	62	14	63	14	63	14	62	14
Moranbah	66 and 11	N	120	37	121	37	123	38	124	38	125	38	127	39	128	39	129	39	129	39	129	39
Moura	66	CW	62	20	63	21	64	21	65	21	65	21	66	21	67	22	67	22	67	22	67	22
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0
Newlands	66	N	26	2	26	2	27	2	27	2	27	2	27	2	28	2	28	2	28	2	28	2
Oakey	110	SW	21	5	21	5	21	5	22	6	22	6	22	6	22	6	23	6	23	6	23	6
Pandoin	66	CW	41	1	41	1	42	1	43	1	43	1	44	1	45	1	46	1	47	1	48	1
Pioneer Valley	66	N	50	3	51	3	51	3	52	3	53	3	53	3	54	3	55	3	56	3	57	3
Proserpine	66	N	33	3	34	3	34	3	35	3	35	3	35	3	36	3	37	3	37	3	38	3
Rockhampton	66	CW	94	1	95	1	96	1	98	1	99	1	101	1	103	1	105	1	107	1	110	1
Ross (Kidston, Millichester and Georgetown)	132	R	36	16	36	16	37	16	37	17	37	17	38	17	38	17	39	17	39	17	39	20
Stony Creek	132	N	3	1	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2
Tangkam	110	SW	33	6	35	6	35	6	36	6	36	6	36	6	37	6	38	7	38	7	39	7
Tarong	66	SW	49	11	50	11	51	11	51	11	52	11	53	11	53	11	54	12	55	12	57	12

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**Table A.4** Ergon connection point forecast of winter high growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW
Teebar Creek (Iris and Maryborough)	132	WB	141	35	147	36	150	37	152	37	153	37	156	38	159	39	162	40	167	41	171	42	
Townsville East	66	R	27	-19	27	-19	28	-19	26	-4	26	-5	27	-5	27	-5	28	-5	28	-5	29	-6	
Townsville South	66	R	68	8	69	8	70	8	66	6	67	6	68	6	70	6	71	5	73	5	75	5	
Tully	22	R	10	1	11	1	11	1	11	1	11	1	11	1	11	1	12	1	12	1	12	1	
Turkinje (Craigie and Lakeland)	132	FN	19	16	19	16	26	21	26	22	26	22	27	22	27	23	28	28	28	28	24	29	24
Turkinje	66	FN	60	2	61	2	56	2	57	2	57	2	58	2	59	2	61	2	63	2	65	2	
Woolooga (Kilkivan)	132	WB	17	5	17	5	17	5	18	6	18	6	18	6	18	6	19	6	19	6	20	6	
Woree (Caims North)	132	FN	36	6	37	6	37	6	38	6	38	6	39	7	40	7	41	7	42	7	43	7	
Yarwun (Boat Creek)	132	G	44	16	45	17	45	17	46	17	46	17	47	17	47	18	47	18	47	18	47	18	
Hail Creek and King Creek	Various	N	37	7	38	7	38	7	39	7	39	7	39	7	40	7	40	7	40	7	40	7	

**Table A.5** Ergon connection point forecast of winter medium growth native maximum demand

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Alan Sherriff	132	R	18	2	18	2	18	2	19	2	19	2	19	2	19	2	19	2	20	2	20	2	20	2
Aligator Creek (Louisa Creek)	132	N	37	11	38	11	38	11	38	11	38	11	39	11	39	11	39	11	39	11	39	11	39	11
Alligator Creek	33	N	21	2	21	3	21	3	22	3	22	3	22	3	22	3	23	3	23	3	23	3	24	3
Biloela	66	CW	28	6	29	6	29	6	29	6	29	6	29	6	30	6	30	6	30	6	30	6	31	6
Blackwater	132	CW	22	10	22	10	22	10	33	14	44	19	44	19	45	19	45	19	45	19	45	19	44	19
Blackwater	66	CW	112	8	113	8	114	8	115	8	115	8	116	8	117	8	117	8	117	8	116	8	116	8
Bowen North	66	N	23	6	23	6	23	6	23	6	23	6	24	6	24	6	24	6	24	6	24	6	24	6
Bull Creek (Waggamba)	132	B	22	7	22	8	22	8	23	8	23	8	23	8	23	8	23	8	23	8	23	8	23	8
Cairns	22	FN	36	1	36	1	36	1	37	1	37	1	37	1	38	1	38	1	39	1	39	1	40	2
Cairns City	132	FN	27	0	28	0	28	0	28	0	28	0	28	0	29	0	29	0	29	0	29	0	29	0
Calliope River	132	G	46	4	47	4	47	4	47	4	47	4	48	4	48	4	48	4	48	4	48	4	48	4
Cardwell	22	R	3	1	3	1	3	1	3	1	3	1	3	1	4	1	4	1	4	1	4	1	4	1
Chinchilla	132	S	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	17	1	17	1	17	1
Clare South	66	R	53	5	53	5	54	5	54	5	54	5	55	5	55	5	55	5	56	6	56	6	56	6
Collinsville North	33	N	16	4	16	4	16	4	16	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4
Columboola	132	S	69	18	70	18	70	18	71	18	71	18	71	18	72	18	72	18	72	19	73	19	73	19
Dan Gleeson	66	R	66	8	67	8	68	8	68	8	64	6	65	6	66	6	67	6	67	6	69	6	70	5
Dysart	66	CW	39	8	40	8	45	9	51	10	60	12	69	13	70	13	70	13	70	13	69	13	69	13
Edmonton	22	FN	33	7	34	7	34	7	35	7	35	7	36	7	37	8	38	8	38	8	39	8	39	8
Egans Hill	66	CW	54	1	55	1	56	1	56	1	57	1	57	1	58	1	59	1	59	1	60	1	61	1
El Arish	22	FN	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0
Garbutt	66	R	66	8	67	8	67	8	63	6	64	6	65	6	66	6	67	6	67	6	68	6	70	5
Gin Gin	132	WB	128	8	129	9	130	9	132	9	132	9	134	9	136	9	136	9	139	9	142	9	146	10
Gladstone South	66	G	53	11	53	11	54	11	55	11	55	11	56	12	57	12	57	12	57	12	59	12	60	12

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**Table A.5** Ergon connection point forecast of winter medium growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Ingham	66	R	14	2	14	2	14	2	14	2	14	2	14	2	14	2	15	2	15	2	15	2
Innisfail	22	FN	20	1	20	1	20	1	20	1	20	1	20	1	21	1	21	2	21	2	21	2
Kamerunga	22	FN	39	5	40	5	40	5	41	5	41	5	42	5	42	5	43	5	44	5	44	5
Lilyvale (Barcaldine and Clermont)	132	CW	35	13	36	13	36	14	36	14	36	14	37	14	37	14	37	14	38	14	38	14
Lilyvale	66	CW	135	52	137	53	138	53	139	54	139	54	141	54	142	55	142	55	142	55	142	55
Mackay	33	N	60	7	61	7	61	7	62	7	62	7	63	8	64	8	65	8	66	8	66	8
Middle Ridge	110	SW	281	47	285	48	287	48	290	48	291	49	295	49	301	50	307	51	316	51	316	53
Middle Ridge (Postmans Ridge)	110	M	12	3	12	3	12	3	13	3	13	3	13	3	13	3	13	4	13	4	13	4
Moranbah (Broadlea)	132	N	57	12	58	13	58	13	59	13	59	13	60	13	60	13	60	13	60	13	60	13
Moranbah	66 and 11	N	118	36	119	36	120	37	121	37	121	37	122	37	123	38	123	38	123	38	123	37
Moura	66	CW	61	20	62	20	63	20	63	20	63	21	64	21	64	21	64	21	64	21	64	21
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0
Newlands	66	N	26	2	26	2	26	2	26	2	26	2	26	2	27	2	27	2	27	2	27	2
Oakey	110	SW	21	5	21	5	21	5	21	5	21	5	21	5	22	6	22	6	22	6	22	6
Pandoin	66	CW	40	1	41	1	41	1	41	1	42	1	42	1	43	1	44	1	44	1	44	1
Pioneer Valley	66	N	49	3	50	3	50	3	51	3	51	3	52	3	52	3	53	3	53	3	53	3
Proserpine	66	N	33	3	33	3	33	3	34	3	34	3	34	3	35	3	35	3	35	3	36	3
Rockhampton	66	CW	92	1	93	1	94	1	94	1	96	1	97	1	99	1	100	1	102	1	102	1
Ross (Kidston, Millicester and Georgetown)	132	R	35	16	35	16	36	16	36	16	36	16	36	16	37	16	37	17	37	17	37	17
Stony Creek	132	N	3	1	3	1	3	1	3	2	3	2	3	2	3	2	3	2	3	2	3	2
Tangkam	110	SW	33	6	34	6	34	6	35	6	35	6	35	6	36	6	36	6	36	6	36	6
Tarong	66	SW	49	10	49	10	50	11	50	11	50	11	51	11	51	11	52	11	53	11	53	11

**Table A.5** Ergon connection point forecast of winter medium growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Teabar Creek (Isis and Maryborough)	132	WB	139	34	144	35	146	36	148	36	148	36	150	37	153	37	155	38	159	39	163	40
Townsville East	66	R	26	-19	27	-19	27	-19	25	-4	25	-5	26	-5	26	-5	27	-5	27	-5	28	-6
Townsville South	66	R	67	8	68	8	69	8	64	6	65	6	66	6	67	6	68	6	70	6	71	6
Tully	22	R	10	1	10	1	10	1	11	1	11	1	11	1	11	1	11	1	11	1	12	1
Turkinje (Craigie and Lakeland)	132	FN	18	15	19	16	25	21	25	21	25	21	26	21	26	22	26	22	27	22	27	23
Turkinje	66	FN	59	2	60	2	55	2	55	2	55	2	56	2	57	2	58	2	60	2	61	2
Woolooga (Kilkivan)	132	WB	16	5	17	5	17	5	17	5	17	5	17	5	18	6	18	6	19	6	19	6
Woree (Caims North)	132	FN	36	6	36	6	37	6	37	6	37	6	38	6	38	6	39	7	40	7	41	7
Yarwun (Boat Creek)	132	G	43	16	44	16	44	17	45	17	45	17	45	17	45	17	45	17	45	17	45	17
Hail Creek and King Creek	Various	N	37	7	37	7	37	7	38	7	38	7	38	7	38	7	38	7	38	7	38	7

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**Table A.6** Ergon connection point forecast of winter low growth native maximum demand

Connection Point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Alan Sherriff	132	R	18	2	18	2	18	2	18	2	18	2	18	2	18	2	19	2	19	2	19	2
Aligator Creek (Louisa Creek)	132	N	37	11	37	11	37	11	37	11	37	11	38	11	38	11	37	11	37	11	37	11
Alligator Creek	33	N	21	2	21	2	21	2	21	3	21	3	22	3	22	3	22	3	22	3	22	3
Biloela	66	CW	28	6	28	6	28	6	28	6	28	6	29	6	29	6	29	6	29	6	29	6
Blackwater	132	CW	21	10	22	10	22	10	32	14	43	18	43	18	43	18	43	18	43	18	42	18
Blackwater	66	CW	110	8	111	8	112	8	112	8	112	8	112	8	113	8	112	8	111	8	110	8
Bowen North	66	N	23	6	23	6	23	6	23	6	23	6	23	6	23	6	23	6	23	6	23	6
Bull Creek (Waggamba)	132	B	22	7	22	7	22	8	22	8	22	8	22	8	22	8	22	7	22	7	22	7
Cairns	22	FN	35	1	36	1	36	1	36	1	36	1	36	1	37	1	37	1	38	1	38	1
Cairns City	132	FN	27	0	27	0	27	0	27	0	27	0	28	0	28	0	28	0	28	0	28	0
Calliope River	132	G	46	4	46	4	46	4	46	4	46	4	46	4	47	4	46	4	46	4	46	4
Cardwell	22	R	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Chinchilla	132	S	15	1	15	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1
Clare South	66	R	52	5	53	5	53	5	53	5	53	5	53	5	53	5	53	5	53	5	53	5
Collinsville North	33	N	16	4	16	4	16	4	16	4	16	4	16	4	16	4	16	4	16	4	16	4
Columboola	132	S	68	17	69	18	69	18	69	18	69	18	70	18	70	18	69	18	70	18	70	18
Dan Gleeson	66	R	65	8	66	8	67	8	62	6	62	6	64	6	64	6	65	6	66	6	67	6
Dysart	66	CW	39	8	39	8	45	9	50	10	58	11	67	13	67	13	67	13	66	13	66	13
Edmonton	22	FN	33	7	33	7	34	7	34	7	34	7	35	7	36	7	36	7	37	8	38	8
Egans Hill	66	CW	54	1	54	1	55	1	55	1	55	1	56	1	56	1	57	1	58	1	59	1
El Arish	22	FN	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0
Garbutt	66	R	65	8	66	8	66	8	62	6	62	6	64	6	64	6	64	6	65	6	67	6
Gin Gin	132	WB	127	8	128	8	128	8	129	8	129	8	130	9	132	9	133	9	136	9	139	9
Gladstone South	66	G	52	11	53	11	53	11	53	11	53	11	54	11	55	11	55	11	56	12	57	12

**Table A.6** Ergon connection point forecast of winter low growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Ingham	66	R	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2
Innisfail	22	FN	20	1	20	1	20	1	20	1	20	1	20	1	20	1	20	1	20	1	20	1
Kamerunga	22	FN	39	5	39	5	40	5	40	5	40	5	40	5	41	5	41	5	42	5	43	5
Lilyvale (Barcardine and Clermont)	132	CW	35	13	35	13	35	13	35	13	35	13	35	13	36	14	36	14	36	14	36	14
Lilyvale	66	CW	134	52	135	52	136	53	136	53	136	53	136	53	137	53	136	53	135	52	134	52
Mackay	33	N	60	7	60	7	61	7	61	7	61	7	61	7	62	7	62	7	63	8	64	8
Middle Ridge	110	SW	278	46	281	47	282	47	284	47	284	47	286	48	291	49	295	49	303	51	311	52
Middle Ridge (Postmans Ridge)	110	M	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	13	3	13	3
Moranbah (Broadlea)	132	N	57	12	57	12	57	12	58	13	58	13	58	13	58	13	57	12	57	12	56	12
Moranbah	66 and 11	N	116	36	117	36	118	36	118	36	118	36	119	36	119	36	118	36	118	36	117	35
Moura	66	CW	61	20	61	20	61	20	62	20	62	20	62	20	62	20	62	20	61	20	61	20
Nebo	11	N	3	0	3	0	3	0	3	0	2	0	3	0	3	0	3	0	3	0	3	0
Newlands	66	N	25	2	25	2	26	2	26	2	26	2	26	2	26	2	26	2	25	2	25	2
Oakey	110	SW	20	5	21	5	21	5	21	5	21	5	21	5	21	5	21	5	21	5	21	5
Pandoin	66	CW	40	1	40	1	40	1	41	1	41	1	41	1	42	1	42	1	43	1	43	1
Pioneer Valley	66	N	49	3	49	3	49	3	50	3	50	3	50	3	51	3	51	3	51	3	51	3
Proserpine	66	N	32	3	33	3	33	3	33	3	33	3	33	3	34	3	34	3	34	3	35	3
Rockhampton	66	CW	91	1	92	1	92	1	93	1	93	1	94	1	95	1	96	1	98	1	99	1
Ross (Kidston, Millichester and Georgetown)	132	R	35	16	35	16	35	16	35	16	35	16	35	16	36	16	35	16	35	16	35	18
Stony Creek	132	N	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Tangkam	110	SW	32	6	34	6	34	6	34	6	34	6	34	6	34	6	35	6	35	6	35	6
Tarong	66	SW	48	10	48	10	49	10	49	10	49	10	49	10	50	11	50	11	51	11	51	11

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**Table A.6** Ergon connection point forecast of winter low growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Teabar Creek (Isis and Maryborough)	132	WB	138	34	142	35	144	35	145	35	145	35	145	36	148	36	149	37	152	37	155	38
Townsville East	66	R	26	-19	26	-20	27	-19	24	-4	25	-5	25	-5	25	-5	26	-5	26	-5	26	-6
Townsville South	66	R	66	8	67	8	67	8	63	6	63	6	64	6	65	6	65	6	67	6	68	6
Tully	22	R	10	1	10	1	10	1	10	1	10	1	10	1	11	1	11	1	11	1	11	1
Turkinje (Craigie and Lakeland)	132	FN	18	15	18	15	25	21	25	21	25	21	25	21	25	21	25	21	26	21	26	22
Turkinje	66	FN	59	2	59	2	54	2	54	2	54	2	54	2	55	2	56	2	57	2	59	2
Woolooga (Kilkivan)	132	WB	16	5	17	5	17	5	17	5	17	5	17	5	17	5	17	5	18	6	18	6
Woree (Cairns North)	132	FN	35	6	36	6	36	6	36	6	36	6	36	6	37	6	38	6	38	6	39	7
Yarwun (Boat Creek)	132	G	42	16	43	16	43	16	44	16	44	16	44	16	44	16	44	16	43	16	43	16
Hail Creek and King Creek	Various	N	36	7	37	7	37	7	37	7	37	7	37	7	37	7	37	7	36	7	36	7

Table A.7 Energen connection point forecast of summer high growth native maximum demand

Connection point	Voltage (kV)	Zone	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32										
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>								
Abermain	110	M	72	13	72	13	75	13	77	14	80	14	83	15	86	15	89	16				
Abermain	33	M	100	12	105	12	110	13	113	13	115	14	118	14	122	14	127	15	131	16	135	16
Algerter	33	M	72	18	72	18	72	17	72	18	73	18	75	18	78	19	81	20	84	21	88	21
Ashgrove West	110	M	115	17	118	17	117	17	120	18	126	19	130	19	135	20	140	21	145	21	150	22
Ashgrove West	33	M	80	11	79	11	79	11	79	11	79	11	81	11	83	12	86	12	89	12	92	13
Belmont	110	M	379	68	386	69	390	70	398	71	408	73	424	76	438	78	454	81	470	84	487	87
Blackstone (Raceview)	110	M	104	11	106	11	107	11	111	11	114	12	119	12	125	13	131	14	138	14	145	15
Bundamba	110	M	35	16	38	17	37	17	38	17	38	17	39	17	40	18	41	18	43	19	44	20
Goodna	33	M	146	4	148	4	156	4	159	5	164	5	172	5	181	5	191	5	201	6	210	6
Loganlea	110	M	405	143	411	146	412	146	419	148	426	151	442	157	460	163	480	170	501	177	522	185
Loganlea	33	M	101	6	100	6	99	6	100	6	101	6	105	6	108	7	113	7	118	7	123	8
Middle Ridge (Postmans Ridge and Gattton)	110	M	130	10	132	10	132	10	133	10	133	10	136	10	139	10	142	11	146	11	149	11
Molendinar	110	GC	524	17	525	17	528	17	536	17	544	18	563	18	585	19	612	20	639	21	666	22
Mudgeeraba	110	GC	365	85	364	85	364	85	367	86	371	87	381	89	393	92	408	95	423	99	437	102
Mudgeeraba	33	GC	22	5	22	5	22	5	22	5	23	5	23	6	24	6	25	6	26	6	26	6
Murarie	110	M	546	81	561	83	582	86	590	87	596	88	612	91	630	93	652	96	675	100	697	103
Palmwoods	110 and 132	M	416	137	420	138	423	139	429	141	436	143	451	148	470	154	491	161	518	170	542	178
Redbank Plains	11	M	36	4	36	4	36	4	37	4	37	4	39	4	41	4	43	5	45	5	47	5

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**Table A.7** Energex connection point forecast of summer high growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Richlands	33	M	129	28	129	28	134	29	135	29	137	29	141	30	146	32	152	33	158	34	165	36
Rocklea	110	M	146	40	146	40	146	40	147	41	149	41	154	42	160	44	167	46	175	48	182	50
Runcorn	33	M	65	7	70	7	69	7	70	7	71	7	73	7	75	8	78	8	81	8	84	9
South Pine	110	M	1040	127	1046	128	1046	128	1057	129	1070	131	1102	135	1139	139	1182	145	1227	150	1271	155
Summer	110	M	34	11	33	11	33	11	33	11	33	11	34	12	35	12	36	12	38	13	39	13
Tennyson	33	M	189	14	193	15	194	15	195	15	196	15	201	15	207	16	215	16	222	17	229	18
Wecker Road	33	M	134	20	139	20	138	20	139	20	141	21	145	21	149	22	155	23	161	24	167	25
Woolooga (Gympie)	132	M	250	1	250	1	248	1	250	1	251	1	257	1	264	1	273	1	283	1	293	1

**Table A.8** Energex connection point forecast of summer medium growth native maximum demand

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Abermain	110	M	71	13	71	13	70	13	72	13	72	13	72	13	73	13	73	13	73	13	74	13	76	14
Abermain	33	M	99	12	104	12	109	13	111	13	111	13	113	13	114	13	114	13	116	14	118	14	121	14
Algerter	33	M	72	17	71	17	70	17	70	17	70	17	70	17	71	17	71	17	72	18	73	18	75	18
Ashgrove West	110	M	114	17	116	17	114	17	116	17	121	18	122	18	123	18	123	18	124	18	126	18	129	19
Ashgrove West	33	M	79	11	78	11	77	11	77	11	76	11	76	11	77	11	77	11	77	11	78	11	80	11
Belmont	110	M	376	67	381	68	383	69	386	69	390	70	396	71	398	71	403	72	408	73	408	73	419	75
Blackstone (Raceview)	110	M	103	11	104	11	105	11	108	11	109	11	111	11	113	12	117	12	117	12	120	12	125	13
Bundamba	110	M	35	15	37	17	37	16	37	16	36	16	37	16	37	16	37	16	37	16	37	17	38	17
Goodna	33	M	145	4	146	4	153	4	155	4	157	4	160	5	164	5	169	5	169	5	174	5	181	5
Loganlea	110	M	402	142	405	144	405	143	406	144	407	144	413	146	418	148	426	151	434	154	434	154	449	159
Loganlea	33	M	100	6	99	6	98	6	97	6	97	6	98	6	99	6	100	6	100	6	102	6	106	7
Middle Ridge (Postmans Ridge and Gatton)	110	M	129	10	131	10	130	10	130	10	130	10	130	10	131	10	132	10	132	10	133	10	135	10
Molendinar	110	GC	519	17	518	17	519	17	520	17	520	17	526	17	533	17	543	18	554	18	554	18	573	19
Mudgeeraba	110	GC	363	85	360	84	358	84	357	83	356	83	358	84	361	84	366	85	371	87	371	87	381	89
Mudgeeraba	33	GC	22	5	22	5	22	5	22	5	22	5	22	5	22	5	22	5	22	5	22	5	23	5
Murarie	110	M	542	80	554	82	572	85	573	85	572	85	574	85	577	85	582	86	590	87	590	87	605	89
Palmwoods	110 & 132	M	413	136	415	136	415	136	416	137	417	137	421	138	428	140	436	143	449	148	449	148	467	153
Redbank Plains	11	M	35	4	35	4	35	4	35	4	36	4	36	4	37	4	38	4	39	4	39	4	40	4

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**Table A.8** Energex connection point forecast of summer medium growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Richlands	33	M	128	28	127	27	131	28	131	28	131	28	132	28	133	29	135	29	137	30	142	31
Rocklea	110	M	145	40	144	40	143	39	143	39	143	39	144	40	146	40	149	41	152	42	157	43
Runcorn	33	M	64	7	69	7	68	7	68	7	68	7	68	7	69	7	70	7	71	7	73	7
South Pine	110	M	1033	126	1034	126	1028	126	1027	126	1026	125	1034	126	1043	128	1058	129	1074	131	1104	135
Summer	110	M	33	11	33	11	33	11	32	11	32	11	32	11	32	11	32	11	33	11	34	11
Tennyson	33	M	188	14	190	15	190	14	189	14	188	14	188	14	189	14	191	15	193	15	197	15
Wecker Road	33	M	133	20	137	20	136	20	135	20	134	20	135	20	136	20	138	20	139	20	144	21
Woolooga (Gympie)	132	M	248	1	247	1	244	1	242	1	240	1	240	1	240	1	243	1	245	1	252	1

**Table A.9** Energex connection point forecast of summer low growth native maximum demand

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Abermain	110	M	71	13	70	13	69	12	70	13	70	13	69	12	69	12	69	12	69	12	69	12	69	12
Abermain	33	M	98	12	103	12	107	13	109	13	109	13	109	13	110	13	111	13	111	13	111	13	112	13
Algester	33	M	71	17	70	17	69	17	69	17	68	17	68	17	68	17	69	17	69	17	69	17	70	17
Ashgrove West	110	M	112	17	114	17	112	16	113	17	117	17	117	17	117	17	116	17	116	17	116	17	116	17
Ashgrove West	33	M	78	11	77	11	76	11	75	10	74	10	74	10	73	10	73	10	73	10	73	10	73	10
Belmont	110	M	373	67	376	67	375	67	376	67	378	68	380	68	379	68	378	68	377	68	377	68	377	68
Blackstone (Raceview)	110	M	102	11	103	11	103	11	105	11	105	11	107	11	108	11	109	11	111	11	111	11	112	12
Bundamba	110	M	34	15	37	16	36	16	36	16	35	16	35	16	35	15	35	15	34	15	34	15	34	15
Goodna	33	M	144	4	144	4	150	4	151	4	152	4	154	4	156	4	159	5	161	5	161	5	163	5
Loganlea	110	M	398	141	399	142	396	140	396	140	395	140	397	141	398	141	400	142	402	142	402	142	405	143
Loganlea	33	M	99	6	98	6	96	6	95	6	94	6	94	6	94	6	94	6	94	6	94	6	95	6
Middle Ridge (Postmans Ridge and Gatton)	110	M	129	10	130	10	129	10	128	9	127	9	127	9	126	9	126	9	126	9	126	9	126	9
Molendinar	110	GC	514	17	511	17	508	16	506	16	504	16	505	16	507	16	510	17	512	17	512	17	516	17
Mudgeeraba	110	GC	360	84	355	83	351	82	349	81	346	81	345	81	345	81	345	81	345	81	345	81	346	81
Mudgeeraba	33	GC	22	5	22	5	21	5	21	5	21	5	21	5	21	5	21	5	21	5	21	5	21	5
Muranrie	110	M	537	79	546	81	561	83	560	83	555	82	553	82	550	81	549	81	548	81	548	81	548	81
Palmwoods	110 & 132	M	409	134	409	134	407	134	405	133	404	133	405	133	407	134	409	134	416	137	420	138	420	138
Redbank Plains	11	M	35	4	35	4	35	4	35	4	35	4	35	4	35	4	36	4	36	4	36	4	36	4

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**Table A.9** Energex connection point forecast of summer low growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Richlands	33	M	127	27	125	27	129	28	128	28	127	27	127	27	127	27	127	27	127	27	128	28
Rocklea	110	M	144	40	142	39	140	39	139	38	138	38	139	38	139	38	140	38	140	38	141	39
Runcorn	33	M	64	7	68	7	67	7	66	7	66	7	65	7	65	7	65	7	65	7	65	7
South Pine	110	M	1023	125	1019	125	1008	123	1003	123	997	122	996	122	996	122	997	122	999	122	1001	122
Summer	110	M	33	11	32	11	32	11	31	11	31	10	31	10	30	10	30	10	30	10	30	10
Tennyson	33	M	186	14	187	14	186	14	184	14	182	14	181	14	180	14	179	14	178	14	178	14
Wecker Road	33	M	132	19	135	20	133	20	132	19	130	19	130	19	129	19	129	19	129	19	129	19
Woolooga (Gympie)	132	M	245	1	243	1	239	1	236	1	232	1	230	1	229	1	228	1	227	1	227	1

**Table A.10** Energex connection point forecast of winter high growth native maximum demand

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW
Abermain	110	M	48	9	48	9	50	9	51	10	52	10	53	10	55	10	56	11	58	11	60	11	60
Abermain	33	M	79	12	84	13	88	14	89	14	91	14	94	15	97	15	99	16	103	16	106	17	106
Algerter	33	M	61	10	60	10	61	10	62	10	63	10	65	11	67	11	69	11	71	12	74	12	74
Ashgrove West	110	M	103	6	104	6	105	6	108	6	116	7	120	7	123	7	126	7	130	7	134	8	134
Ashgrove West	33	M	63	2	63	2	64	2	64	2	65	2	67	2	68	2	70	2	71	2	73	2	73
Belmont	110	M	309	32	316	33	329	34	338	35	349	37	358	37	368	39	377	39	388	41	400	42	400
Blackstone (Raceview)	110	M	75	13	76	13	79	14	82	14	85	14	88	15	92	16	96	16	100	17	105	18	105
Bundamba	110	M	30	11	32	12	33	12	33	12	34	12	35	12	35	13	36	13	37	13	38	14	38
Goodna	33	M	98	7	101	7	106	7	109	7	113	8	118	8	124	8	129	9	135	9	141	9	141
Loganlea	110	M	404	75	406	75	416	77	424	79	440	82	454	84	471	87	485	90	504	93	523	97	523
Loganlea	33	M	85	15	84	15	85	15	86	15	88	15	91	16	94	16	97	17	100	17	104	18	104
Middle Ridge (Postmans Ridge and Gatton)	110	M	129	9	128	9	130	9	130	9	132	10	134	10	137	10	139	10	142	10	144	10	144
Molendinar	110	GC	378	0	379	0	389	0	395	0	407	0	421	0	436	0	450	0	467	0	485	0	485
Mudgeeraba	110	GC	304	53	304	53	309	54	312	54	319	56	327	57	337	59	345	60	356	62	367	64	367
Mudgeeraba	33	GC	21	3	21	3	21	3	21	3	22	3	22	3	23	3	23	3	24	4	25	4	25
Murarie	110	M	401	43	418	45	436	47	443	48	454	49	465	50	477	52	486	53	500	54	515	56	515
Palmwoods	110 & 132	M	348	109	351	110	360	112	366	114	377	118	390	122	404	126	419	131	437	137	456	143	456
Redbank Plains	11	M	28	1	29	1	29	1	30	1	31	1	32	1	34	1	35	1	36	1	38	1	38

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**Table A.10** Energex connection point forecast of winter high growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW
Richlands	33	M	96	11	100	12	102	12	103	12	106	13	109	13	113	13	116	14	120	14	124	15	15
Rocklea	110	M	125	25	125	25	127	26	128	26	132	27	136	28	141	28	145	29	150	30	156	31	31
Runcorn	33	M	51	2	55	2	56	2	56	2	58	2	59	2	61	2	63	2	65	2	67	2	2
South Pine	110	M	842	91	846	91	861	93	872	94	894	96	917	99	945	102	968	104	998	107	1030	111	111
Sumner	110	M	25	4	25	4	25	4	25	4	26	4	26	4	27	4	28	5	28	5	29	5	5
Tennyson	33	M	146	12	148	12	152	13	153	13	157	13	160	13	165	14	168	14	173	14	178	15	15
Wecker Road	33	M	102	4	106	4	108	4	109	4	111	4	114	4	118	4	121	4	125	4	129	4	4
Woolooga (Gympie)	132	M	222	0	220	0	223	0	224	0	229	0	234	0	240	0	245	0	252	0	259	0	0

**Table A.11** Energex connection point forecast of winter medium growth native maximum demand

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Abermain	110	M	47	9	46	9	48	9	48	9	49	9	50	9	51	9	51	10	52	10	52	10	52	10
Abermain	33	M	77	12	82	13	85	13	86	13	88	14	89	14	91	14	91	14	92	14	94	15	95	15
Algester	33	M	59	10	58	9	59	10	59	10	60	10	61	10	62	10	62	10	63	10	64	10	65	11
Ashgrove West	110	M	100	6	100	6	100	6	103	6	110	6	111	6	113	6	113	6	115	6	116	6	117	7
Ashgrove West	33	M	62	2	61	2	62	2	61	2	62	2	63	2	63	2	63	2	64	2	64	2	65	2
Belmont	110	M	301	31	306	32	315	33	321	34	329	34	333	35	339	35	339	35	342	36	345	36	350	37
Blackstone (Raceview)	110	M	73	12	74	13	76	13	77	13	80	14	82	14	85	14	85	14	87	15	89	15	91	16
Bundamba	110	M	29	10	31	11	31	11	31	11	32	11	32	12	33	12	33	12	33	12	33	12	33	12
Goodna	33	M	96	6	98	7	102	7	103	7	107	7	110	7	114	8	114	8	117	8	120	8	123	8
Loganlea	110	M	393	73	393	73	398	74	402	75	415	77	423	78	433	80	433	80	441	82	448	83	458	85
Loganlea	33	M	82	14	82	14	82	14	82	14	83	14	85	15	87	15	87	15	88	15	89	15	91	16
Middle Ridge (Postmans Ridge and Gatton)	110	M	127	9	126	9	126	9	126	9	128	9	129	9	130	9	130	9	131	9	132	10	133	10
Molendinar	110	GC	369	0	367	0	373	0	375	0	384	0	392	0	401	0	401	0	408	0	416	0	424	0
Mudgeeraba	110	GC	297	52	295	51	297	52	298	52	303	53	307	53	312	54	312	54	316	55	320	56	324	56
Mudgeeraba	33	GC	20	3	20	3	20	3	20	3	20	3	21	3	21	3	21	3	21	3	21	3	22	3
Murarie	110	M	391	42	406	44	419	45	422	46	430	46	435	47	441	48	441	48	445	48	449	49	454	49
Palmwoods	110 & 132	M	339	106	339	106	345	108	347	109	355	111	363	114	372	116	372	116	381	119	389	122	399	125
Redbank Plains	11	M	28	1	28	1	28	1	28	1	29	1	30	1	31	1	31	1	32	1	32	1	33	1

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**Table A.11** Energex connection point forecast of winter medium growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Richlands	33	M	94	10	97	12	98	12	98	12	100	12	102	12	104	12	105	13	107	13	109	13
Rocklea	110	M	122	25	121	25	121	25	122	25	124	25	127	26	130	26	132	27	134	27	136	27
Runcorn	33	M	50	2	53	2	53	2	54	2	55	2	55	2	56	2	57	2	58	2	59	2
South Pine	110	M	822	88	821	88	828	89	831	89	847	91	860	92	875	94	886	95	897	96	910	98
Sumner	110	M	24	4	24	4	24	4	24	4	24	4	25	4	25	4	25	4	25	4	26	4
Tennyson	33	M	143	12	143	12	146	12	146	12	148	12	149	12	152	13	153	13	154	13	156	13
Wecker Road	33	M	99	3	103	4	103	4	103	4	105	4	106	4	108	4	110	4	111	4	113	4
Woolooga (Gympie)	132	M	216	0	213	0	214	0	213	0	216	0	218	0	221	0	222	0	224	0	227	0

Table A.12 Energex connection point forecast of winter low growth native maximum demand

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032			
			MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Abermain	110	M	45	8	44	8	46	9	45	8	46	8	46	9	46	9	46	9	46	8	46	8	45	8
Abermain	33	M	75	12	79	12	82	13	82	13	83	13	84	13	85	13	85	13	85	13	86	13	86	13
Algester	33	M	57	9	56	9	56	9	56	9	56	9	56	9	57	9	57	9	57	9	57	9	58	9
Ashgrove West	110	M	97	5	96	5	95	5	96	5	102	6	102	6	103	6	102	6	102	6	102	6	102	6
Ashgrove West	33	M	60	2	59	2	59	2	58	2	58	2	58	2	58	2	58	2	58	2	58	2	58	2
Belmont	110	M	292	31	293	31	300	31	301	31	305	32	305	32	306	32	305	32	305	32	305	32	304	32
Blackstone (Raceview)	110	M	71	12	71	12	72	12	73	12	74	13	75	13	77	13	78	13	78	13	79	13	79	14
Bundamba	110	M	28	10	30	11	30	11	29	11	30	11	29	11	30	11	29	10	29	10	29	10	29	10
Goodna	33	M	93	6	94	6	97	6	97	6	99	7	101	7	103	7	105	7	105	7	106	7	107	7
Loganlea	110	M	382	71	377	70	379	70	377	70	385	71	387	72	392	73	393	73	393	73	395	73	398	74
Loganlea	33	M	80	14	78	14	78	13	77	13	77	13	78	13	78	14	78	14	78	14	79	14	79	14
Middle Ridge (Postmans Ridge and Gatton)	110	M	125	9	123	9	123	9	122	9	122	9	122	9	122	9	122	9	122	9	122	9	122	9
Molendinar	110	GC	358	0	352	0	354	0	352	0	356	0	359	0	363	0	365	0	365	0	367	0	368	0
Mudgeeraba	110	GC	290	50	285	50	284	49	281	49	283	49	284	49	285	50	285	50	285	50	286	50	286	50
Mudgeeraba	33	GC	20	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3
Murarie	110	M	381	41	391	42	400	43	398	43	401	43	401	43	402	43	400	43	400	43	400	43	399	43
Palmwoods	110 & 132	M	330	103	326	102	328	102	326	102	329	103	332	104	336	105	340	106	340	106	343	107	347	108
Redbank Plains	11	M	27	1	27	1	27	1	27	1	27	1	27	1	28	1	28	1	28	1	29	1	29	1
Richlands	33	M	91	10	93	11	93	11	92	11	93	11	93	11	94	11	94	11	94	11	94	11	95	11

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**Table A.12** Energex connection point forecast of winter low growth native maximum demand (continued)

Connection point	Voltage (kV)	Zone	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032			
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Rocklea	110	M	118	24	116	24	116	23	114	23	115	23	116	24	117	24	117	24	118	24	118	24	118	24
Runcorn	33	M	48	2	51	2	51	2	50	2	51	2	51	2	51	2	51	2	51	2	51	2	51	2
South Pine	110	M	801	86	792	85	791	85	785	84	790	85	793	85	799	86	799	86	800	86	800	86	800	86
Sumner	110	M	24	4	23	4	23	4	23	4	22	4	22	4	22	4	22	4	22	4	22	4	22	4
Tennyson	33	M	138	11	138	11	139	11	137	11	137	11	137	11	137	11	137	11	136	11	136	11	135	11
Wecker Road	33	M	96	3	99	3	98	3	97	3	97	3	97	3	98	3	98	3	98	3	98	3	98	3
Woolooga (Gympie)	132	M	210	0	205	0	203	0	200	0	200	0	199	0	200	0	198	0	198	0	198	0	197	0

**Table A.13** Sum of individual summer high growth native peak forecast demands for the transmission connected loads

Connection point (1)	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32
	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>	MW MVA <sub>r</sub>
Transmission connected industrial loads (2)	1,259 466	1,296 483	1,289 480	1,331 500	1,419 541	1,506 583	1,563 610	1,575 615	1,575 615	1,575 615
Transmission connected mining loads (3)	57 60	60 61	64 63	86 70	88 70	141 124	144 125	199 187	200 187	203 188
Transmission connected CSG loads (4)	859 246	834 250	850 260	838 258	852 258	856 255	845 252	828 247	817 242	807 240
Transmission connected rail supply substations (5)(6)	114 167	114 167	114 167	114 167	114 167	114 167	114 167	114 167	114 167	114 167

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA<sub>r</sub>) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:  
Ross zone – Invicta Mill, Queensland Nickel and Sun Metals.  
Gladstone zone – BSL, RTA and QAL.
- (3) Mining loads include:  
North zone – Eagle Downs, Goonyella Riverside and North Goonyella.
- (4) CSG loads include:  
Surat zone – Columboola, Orana and Wandoan South.  
Bulli zone – Kumberilla Park.
- (5) Rail supply substations include:  
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Onnoie, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater Bluff, Duaringa, Grantleigh, Gregory, Norwich Park, Raglan and Wycarbah.  
Gladstone zone – Callemondah.
- (6) There are a number of connection points that supply the Aurizon rail network and these individual connection point peaks have been summated. Due to the load diversity between the connection points, the real and reactive power (MW and MVA<sub>r</sub>) coincident peak is significantly lower.

**Table A.14** Sum of individual summer medium growth native peak forecast demands for the transmission connected loads

Connection point (1)	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		
	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	
Transmission connected industrial loads (2)	201	436	1,197	434	1,195	433	1,191	431	1,194	432	1,194	432	1,194	432	1,193	431	1,192	431	1,192	431	431
Transmission connected mining loads (3)	57	60	60	61	64	63	86	70	88	70	141	124	144	125	199	187	200	187	203	188	
Transmission connected CSG loads (4)	828	240	810	246	789	240	773	235	783	234	787	233	775	229	742	217	732	213	720	210	210
Transmission connected rail supply substations (5)(6)	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	167

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA<sub>r</sub>) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:  
 Ross zone – Invicta Mill, Queensland Nickel and Sun Metals.  
 Gladstone zone – BSL, RTA and QAL.
- (3) Mining loads include:  
 North zone – Eagle Downs, Goonyella Riverside and North Goonyella.
- (4) CSG loads include:  
 Surat zone – Columboola, Orana and Wandoan South.  
 Bulli zone – Kumberilla Park.
- (5) Rail supply substations include:  
 North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Onoioie, Peak Downs, Wandoo and Wotonga.  
 Central West zone – Blackwater, Bluff, Duaringa, Grantleigh, Gregory, Norwich Park, Raglan and Wycarbah.  
 Gladstone zone – Callemondah.
- (6) There are a number of connection points that supply the Aurizon rail network and these individual connection point peaks have been summated. Due to the load diversity between the connection points, the real and reactive power (MW and MVA<sub>r</sub>) coincident peak is significantly lower.

**Table A.15** Sum of individual summer low growth native peak forecast demands for the transmission connected loads

Connection point (1)	2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32			
	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>		
Transmission connected industrial loads (2)	1,161	415	1,155	412	1,148	409	144	407	1,139	404	1,132	401	1,128	399	1,128	399	1,127	399	1,127	399	1,127	399
Transmission connected mining loads (3)	57	60	60	61	64	63	86	70	88	70	92	72	95	73	92	72	93	72	96	73	96	73
Transmission connected CSG loads (4)	771	222	751	226	684	200	671	197	680	197	685	195	675	192	647	182	641	178	631	176	631	176
Transmission connected rail supply substations (5)(6)	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA<sub>r</sub>) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:  
Ross zone – Invicta Mill, Queensland Nickel and Sun Metals.  
Gladstone zone – BSL, RTA and QAL.
- (3) Mining loads include:  
North zone – Eagle Downs, Goonyella Riverside and North Goonyella.
- (4) CSG loads include:  
Surat zone – Columboola, Orana and Wandoan South.  
Bulli zone – Kumberilla Park.
- (5) Rail supply substations include:  
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Onnoie, Peak Downs, Wandoan and Wotonga.  
Central West zone – Blackwater Bluff, Duaringa, Grantleigh, Gregory, Norwich Park, Raglan and Wycarbah.  
Gladstone zone – Callemondah.
- (6) There are a number of connection points that supply the Aurizon rail network and these individual connection point peaks have been summated. Due to the load diversity between the connection points, the real and reactive power (MW and MVA<sub>r</sub>) coincident peak is significantly lower.

**Table A.16** Sum of individual winter high growth native peak forecast demands for the transmission connected loads

Connection point (1)	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032 (7)		
	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	
Transmission connected industrial loads (2)	1,299	471	1,292	468	1,334	488	1,422	529	1,509	571	1,566	598	1,579	603	1,578	603	1,578	603	1,578	603	603
Transmission connected mining loads (3)	60	61	61	62	71	65	87	70	139	124	144	125	199	187	198	187	203	188	209	190	190
Transmission connected CSG loads (4)	830	250	844	259	836	258	853	260	854	255	849	254	829	248	818	242	807	241	797	239	239
Transmission connected rail supply substations (5)(6)	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	167

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA<sub>r</sub>) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:  
Ross zone – Invicta Mill, Queensland Nickel and Sun Metals.  
Gladstone zone – BSL, RTA and QAL.
- (3) Mining loads include:  
North zone – Eagle Downs, Goonyella Riverside and North Goonyella.
- (4) CSG loads include:  
Surat zone – Columboola, Orana and Wandoan South.  
Bulli zone – Kumberilla Park.
- (5) Rail supply substations include:  
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Onoioie, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Grantleigh, Gregory, Norwich Park, Raglan and Wycarbah.  
Gladstone zone – Callemondah.
- (6) There are a number of connection points that supply the Aurizon rail network and these individual connection point peaks have been summated. Due to the load diversity between the connection points, the real and reactive power (MW and MVA<sub>r</sub>) coincident peak is significantly lower.
- (7) Connection point loads for winter 2037 have been extrapolated.

**Table A.17** Sum of individual winter medium growth native peak forecast demands for the transmission connected loads

Connection point (1)	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032 (7)	
	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Transmission connected industrial loads (2)	1,198	441	1,196	440	1,192	440	1,195	440	1,195	440	1,195	439	1,194	439	1,193	439	1,193	439	1,193	439
Transmission connected mining loads (3)	60	61	61	62	71	65	87	70	139	124	144	125	199	187	198	187	203	188	209	190
Transmission connected CSG loads (4)	799	243	792	241	774	236	786	236	790	233	782	232	745	218	738	215	720	210	704	205
Transmission connected rail supply substations (5)(6)	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA<sub>r</sub>) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:  
Ross zone – Invicta Mill, Queensland Nickel and Sun Metals.  
Gladstone zone – BSL, RTA and QAL.
- (3) Mining loads include:  
North zone – Eagle Downs, Goonyella Riverside and North Goonyella.
- (4) CSG loads include:  
Surat zone – Columboola, Orana and Wandoan South.  
Bulli zone – Kumberilla Park.
- (5) Rail supply substations include:  
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Onnooie, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Grantleigh, Gregory, Norwich Park, Raglan and Wycarbah.  
Gladstone zone – Callemondah.
- (6) There are a number of connection points that supply the Aurizon rail network and these individual connection point peaks have been summated. Due to the load diversity between the connection points, the real and reactive power (MW and MVA<sub>r</sub>) coincident peak is significantly lower.
- (7) Connection point loads for winter 2032 have been extrapolated.

# Appendix A Compendium

**Table A.18** Sum of individual winter low growth native peak forecast demands for the transmission connected loads

Connection point (1)	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032 (7)	
	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>	MW	MVA <sub>r</sub>
Transmission connected industrial loads (2)	1,156	418	1,149	415	1,145	413	1,140	411	1,133	407	1,129	406	1,129	405	1,128	405	1,128	405	1,128	405
Transmission connected mining loads (3)	60	61	61	62	71	65	87	70	90	71	92	73	92	72	91	71	96	73	102	75
Transmission connected CSG loads (4)	742	224	687	201	672	198	682	198	687	196	680	194	649	182	645	180	631	176	618	172
Transmission connected rail supply substations (5)(6)	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167	114	167

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA<sub>r</sub>) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:  
Ross zone – Invicta Mill, Queensland Nickel and Sun Metals.  
Gladstone zone – BSL, RTA and QAL.
- (3) Mining loads include:  
North zone – Eagle Downs, Goonyella Riverside and North Goonyella.
- (4) CSG loads include:  
Surat zone – Columboola, Orana and Wandoan South.  
Bulli zone – Kumberilla Park.
- (5) Rail supply substations include:  
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Onoioie, Peak Downs, Wandoan and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Grantleigh, Gregory, Norwich Park, Raglan and Wycarbah.  
Gladstone zone – Callemondah.
- (6) There are a number of connection points that supply the Aurizon rail network and these individual connection point peaks have been summated. Due to the load diversity between the connection points, the real and reactive power (MW and MVA<sub>r</sub>) coincident peak is significantly lower.
- (7) Connection point loads for winter 2032 have been extrapolated.