

# 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	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31								
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR						
Alan Sherriff	132	R	30	9	29	9	30	9	30	9	31	9	31	9	32	9	33	10	33	10
Aligator Creek (Louisa Creek)	132	N	39	11	39	11	40	12	41	12	41	12	41	12	42	12	42	12	42	12
Alligator Creek	33	N	28	6	29	6	29	6	30	6	30	6	31	7	32	7	32	7	33	7
Biloela	66	CW	34	3	35	3	35	3	36	3	36	3	36	3	37	3	37	3	37	3
Blackwater	132	CW	24	7	24	7	25	7	25	7	26	10	26	10	27	13	27	14	28	14
Blackwater	66	CW	106	20	107	20	109	21	111	21	112	21	113	21	114	22	115	22	116	22
Bowen North	66	N	31	8	32	8	33	8	33	8	33	8	34	8	34	8	34	8	35	8
Bull Creek (Waggamba)	132	B	22	6	23	6	23	6	24	7	24	7	24	7	24	7	24	7	24	7
Cairns	22	FN	54	9	53	9	54	9	54	9	55	9	56	9	57	10	58	10	60	10
Cairns City	132	FN	51	0	51	0	52	0	52	0	53	0	53	0	54	0	54	0	55	0
Calliope River	132	G	58	7	58	7	59	7	60	7	60	7	61	7	62	7	62	7	63	7
Cardwell	22	R	4	1	4	1	4	1	4	1	4	1	4	1	5	1	5	1	5	2
Chinchilla	132	S	21	5	21	5	22	5	22	5	23	5	23	5	23	5	24	5	24	5
Clare South	66	R	87	27	87	27	88	28	90	28	91	29	92	29	93	29	94	30	95	30
Collinsville North	33	N	17	4	17	4	17	4	17	4	17	4	17	4	17	4	18	4	18	4
Columboola	132	S	82	11	83	11	84	11	86	11	86	11	87	11	88	12	89	12	90	12
Dan Gleeson	66	R	119	10	121	10	123	11	121	9	123	9	126	10	128	10	130	10	133	10
Dysart	66	CW	46	10	47	10	47	10	53	11	58	12	67	14	76	16	77	16	77	16
Edmonton	22	FN	47	4	48	4	49	4	51	4	52	4	54	4	55	4	56	4	58	4
Egans Hill	66	CW	55	2	55	3	57	3	59	2	60	3	61	3	62	3	63	3	64	3
El Arish	22	FN	6	0	6	0	6	0	6	0	7	0	7	0	7	0	7	0	7	0
Garbutt	66	R	114	10	115	10	117	10	115	9	117	9	120	9	122	9	124	10	126	10
Gin Gin	132	WB	175	17	178	18	182	18	187	19	189	19	192	19	195	19	198	20	201	20
Gladstone South	66	G	47	5	47	5	48	5	50	6	50	6	51	6	52	6	54	6	55	6

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31			
			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	21	2	21	2	21	2	21	2	21	2	21	2	21	2	22	2	22	2	22	2	22	2
Innisfail	22	FN	28	4	28	4	28	5	29	5	29	5	29	5	30	5	30	5	31	5	31	5	31	5
Kamerunga	22	FN	57	3	58	3	59	3	61	3	62	3	63	3	65	3	66	3	68	3	68	3	69	3
Lilyvale (Barcalaine & Clermont)	132	CW	44	12	44	12	44	12	45	12	45	12	46	12	46	13	47	13	47	13	47	13	48	13
Lilyvale	66	CW	142	62	143	62	145	63	147	64	149	65	149	65	151	66	152	66	153	67	153	67	154	67
Mackay	33	N	90	21	90	21	91	21	91	21	92	22	93	22	94	22	96	22	98	23	98	23	100	23
Middle Ridge	110	SW	230	59	232	59	235	60	238	61	241	61	243	62	248	63	251	64	255	65	255	65	260	66
Middle Ridge (Postmans Ridge)	110	M	30	8	30	8	30	8	31	8	31	9	31	9	32	9	32	9	33	9	33	9	33	9
Moranbah (Broadlea)	132	N	51	12	58	14	59	14	59	14	60	14	60	14	61	14	61	14	62	15	62	15	62	15
Moranbah	66 and 11	N	136	46	137	47	139	48	142	48	143	49	144	49	145	49	147	50	148	50	148	50	149	50
Moura	66	CW	62	21	63	21	65	21	66	22	66	22	67	22	67	22	68	22	69	23	69	23	69	23
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	4	0	4	0	4	0	4	0	4	1
Newlands	66	N	27	6	27	6	28	6	28	6	29	6	29	6	29	6	29	7	29	7	29	7	30	7
Oakey	110	SW	23	9	23	9	23	9	24	9	24	9	24	9	24	9	25	9	25	9	25	9	26	10
Pandoin	66	CW	43	2	43	2	45	3	46	2	47	2	47	2	48	2	49	2	50	2	50	2	51	2
Pioneer Valley	66	N	72	12	73	12	74	12	76	12	77	13	78	13	79	13	80	13	82	13	82	13	83	14
Proserpine	66	N	50	9	50	9	51	9	52	9	53	9	54	9	55	9	56	10	57	10	57	10	58	10
Rockhampton	66	CW	99	3	100	5	104	6	105	4	107	4	108	5	110	5	112	5	114	5	114	5	116	5
Ross (Kidston, Millichester and Georgetown)	132	R	45	9	45	9	46	10	46	10	46	10	47	10	47	10	48	10	48	10	48	10	49	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	1
Tangkam	110	SW	40	7	42	7	43	7	44	8	44	8	44	8	45	8	46	8	46	8	46	8	47	8
Tarong	66	SW	46	12	47	12	48	12	48	12	49	12	49	13	50	13	51	13	51	13	51	13	52	13

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31			
			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>
Teabar Creek (Isis and Maryborough)	132	WB	152	50	157	52	160	53	163	54	165	55	167	55	170	56	173	57	177	58	180	59		
Townsville East	66	R	49	4	49	4	50	4	51	4	50	4	50	4	51	4	52	4	53	4	54	4		
Townsville South	66	R	108	9	109	9	111	10	113	10	109	8	111	9	113	9	115	9	118	9	120	9		
Tully	22	R	15	2	15	2	15	2	16	2	16	2	16	2	16	2	17	2	17	2	17	2		
Turkinje (Craigie and Lakeland)	132	FN	22	13	22	13	23	14	30	18	30	18	31	18	31	19	32	19	33	20	33	20		
Turkinje	66	FN	64	2	65	2	66	2	60	2	61	2	62	2	64	2	65	2	66	2	67	2		
Woolooga (Kilkivan)	132	WB	16	3	16	3	17	3	17	3	17	3	17	3	18	3	18	3	18	3	18	3		
Woree (Cairns North)	132	FN	50	2	50	2	51	2	52	2	53	2	54	2	55	2	57	2	58	2	59	2		
Yarwun (Boat Creek)	132	G	44	18	44	18	45	19	46	19	46	19	46	19	47	19	47	19	48	20	48	20		
Hail Creek and King Creek	Various	N	38	7	39	7	39	7	40	7	40	7	41	8	41	8	41	8	42	8	42	8		

# Appendix A Compendium

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			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	29	9	29	9	29	9	29	9	29	9	30	9	30	9	31	9	31	9	32	9
Aligator Creek (Louisa Creek)	132	N	38	11	38	11	39	11	39	12	39	12	40	12	40	12	40	12	40	12	40	12
Alligator Creek	33	N	28	6	28	6	29	6	29	6	29	6	30	6	30	6	31	6	31	7	32	7
Biloela	66	CW	34	3	34	3	35	3	35	3	35	3	35	3	35	3	35	3	35	3	36	3
Blackwater	132	CW	24	7	24	7	24	7	25	7	35	10	45	13	45	13	45	13	46	13	46	13
Blackwater	66	CW	105	20	106	20	107	20	108	20	108	20	108	20	109	21	109	21	110	21	110	21
Bowen North	66	N	31	8	31	8	31	8	32	8	32	8	32	8	32	8	33	8	33	8	33	8
Bull Creek (Waggamba)	132	B	22	6	22	6	23	6	23	6	23	6	23	6	23	6	23	6	23	6	23	6
Cairns	22	FN	53	9	53	9	53	9	52	9	53	9	53	9	54	9	55	9	56	9	57	9
Cairns City	132	FN	50	0	50	0	51	0	51	0	51	0	51	0	51	0	52	0	52	0	53	0
Calliope River	132	G	57	7	57	7	57	7	58	7	58	7	58	7	58	7	59	7	60	7	60	7
Cardwell	22	R	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	5	1
Chinchilla	132	S	21	5	21	5	21	5	22	5	22	5	22	5	22	5	22	5	23	5	23	5
Clare South	66	R	85	27	86	27	87	27	87	27	88	28	88	28	89	28	89	28	90	28	91	28
Collinsville North	33	N	17	4	16	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4
Columboola	132	S	81	11	82	11	82	11	83	11	83	11	83	11	84	11	84	11	85	11	86	11
Dan Gleeson	66	R	118	10	119	10	121	10	122	11	118	9	119	9	121	9	123	9	125	10	126	10
Dysart	66	CW	46	10	46	10	46	10	47	10	52	11	57	12	65	13	73	15	73	15	73	15
Edmonton	22	FN	47	3	47	4	48	4	49	4	50	4	51	4	52	4	53	4	54	4	55	4
Egans Hill	66	CW	54	3	54	3	56	3	57	3	57	3	58	3	58	3	59	3	60	3	61	3
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	112	10	113	10	115	10	116	10	112	9	113	9	115	9	117	9	119	9	120	9
Gin Gin	132	WB	173	17	175	17	178	18	180	18	182	18	183	18	185	18	187	18	189	19	192	19
Gladstone South	66	G	46	5	46	5	47	5	48	5	48	5	49	6	50	6	50	6	51	6	52	6

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			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	20	2	20	2	20	2	21	2	21	2	21	2	21	2	21	2	21	2	21	2
Innisfail	22	FN	27	4	28	4	28	4	28	4	28	5	29	5	29	5	29	5	30	5	30	5
Kamerunga	22	FN	56	3	57	3	58	3	59	3	60	3	61	3	62	3	63	3	65	3	65	3
Lilyvale (Barcaldine & Clermont)	132	CW	43	12	43	12	44	12	44	12	44	12	44	12	45	12	45	12	45	12	45	12
Lilyvale	66	CW	140	61	141	61	142	62	143	62	144	63	145	63	145	63	146	63	147	64	147	64
Mackay	33	N	89	21	89	21	89	21	89	21	90	21	90	21	91	21	92	21	93	22	95	22
Middle Ridge	110	SW	227	58	229	58	231	59	232	59	234	60	236	60	238	61	240	61	244	62	247	63
Middle Ridge (Postmans Ridge)	110	M	29	8	29	8	30	8	30	8	30	8	30	8	31	8	31	9	31	9	32	9
Moranbah (Broadlea)	132	N	50	12	57	13	57	14	58	14	58	14	58	14	58	14	59	14	59	14	59	14
Moranbah	66 and 11	N	134	46	135	46	137	47	138	47	139	47	139	47	140	47	141	48	142	48	142	48
Moura	66	CW	61	20	62	21	64	21	64	21	64	21	65	21	65	21	65	22	66	22	66	22
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	27	6	27	6	27	6	28	6	28	6	28	6	28	6	28	6	28	6	28	6
Oakey	110	SW	23	9	23	8	23	9	23	9	23	9	23	9	24	9	24	9	24	9	24	9
Pandoin	66	CW	43	2	43	2	44	2	45	2	45	2	46	3	46	3	47	3	47	3	48	3
Pioneer Valley	66	N	71	12	72	12	73	12	74	12	75	12	75	12	76	13	77	13	78	13	79	13
Proserpine	66	N	49	8	49	9	50	9	51	9	51	9	52	9	53	9	53	9	54	9	55	9
Rockhampton	66	CW	98	5	98	5	102	6	103	6	104	6	105	6	106	6	107	6	109	6	111	6
Ross (Kidston, Millicester and Georgetown)	132	R	44	9	44	9	45	9	45	9	45	9	45	9	45	10	46	10	46	10	46	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
Tangkam	110	SW	40	7	42	7	42	7	42	7	43	7	43	7	43	7	44	8	44	8	45	8
Tarong	66	SW	45	12	46	12	47	12	47	12	47	12	48	12	48	12	48	12	49	13	50	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	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			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	150	49	155	51	157	52	159	52	160	53	162	53	164	54	166	55	169	56	171	57
Townsville East	66	R	48	4	49	4	49	4	50	4	48	4	49	4	49	4	50	4	51	4	52	4
Townsville South	66	R	107	9	107	9	109	9	110	10	106	8	108	8	109	8	111	8	113	9	114	9
Tully	22	R	15	2	15	2	15	2	15	2	15	2	16	2	16	2	16	2	16	2	16	2
Turkinje (Craigie and Lakeland)	132	FN	22	13	22	13	22	13	29	17	29	18	30	18	30	18	31	18	31	19	31	19
Turkinje	66	FN	63	2	64	2	65	2	59	2	60	2	60	2	61	2	62	2	63	2	64	2
Woolooga (Kilkivan)	132	WB	16	3	16	3	16	3	16	3	17	3	17	3	17	3	17	3	17	3	18	3
Woree (Caims North)	132	FN	49	2	49	2	50	2	51	2	52	2	52	2	53	2	54	2	55	2	56	2
Yarwun (Boat Creek)	132	G	44	18	44	18	44	18	45	18	45	18	45	18	45	19	45	19	46	19	46	19
Hail Creek and King Creek	Various	N	38	7	38	7	39	7	39	7	39	7	39	7	39	7	40	7	40	7	40	7

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Alan Sherriff	132	R	29	8	29	8	29	8	29	8	29	8	29	8	29	9	30	9	30	9	30	9
Aligator Creek (Louisa Creek)	132	N	38	11	38	11	38	11	38	11	39	11	38	11	38	11	39	11	39	11	39	11
Alligator Creek	33	N	28	6	28	6	28	6	28	6	29	6	29	6	29	6	29	6	30	6	30	6
Biloela	66	CW	34	3	34	3	34	3	34	3	34	3	34	3	34	3	34	3	34	3	34	3
Blackwater	132	CW	24	7	24	7	24	7	24	7	34	10	44	13	44	13	44	13	44	13	44	13
Blackwater	66	CW	104	20	104	20	105	20	105	20	106	20	105	20	105	20	106	20	105	20	105	20
Bowen North	66	N	31	7	31	7	31	8	31	8	31	8	31	8	31	8	32	8	32	8	32	8
Bull Creek (Waggamba)	132	B	22	6	22	6	22	6	22	6	22	6	22	6	22	6	22	6	22	6	22	6
Cairns	22	FN	53	9	52	9	52	9	52	9	52	9	52	9	52	9	53	9	54	9	54	9
Cairns City	132	FN	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Calliope River	132	G	56	7	56	7	56	7	56	7	57	7	57	7	57	7	57	7	57	7	58	7
Cardwell	22	R	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1
Chinchilla	132	S	21	5	21	5	21	5	21	5	21	5	21	5	21	5	22	5	22	5	22	5
Clare South	66	R	84	27	85	27	85	27	86	27	86	27	86	27	86	27	86	27	86	27	87	27
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	80	11	81	11	81	11	81	11	81	11	81	11	81	11	82	11	82	11	82	11
Dan Gleeson	66	R	117	10	117	10	119	10	120	10	115	9	116	9	117	9	118	9	120	9	121	9
Dysart	66	CW	45	9	45	9	46	10	46	10	51	11	55	11	63	13	71	15	70	15	70	15
Edmonton	22	FN	46	3	47	3	47	4	48	4	49	4	49	4	50	4	51	4	52	4	53	4
Egans Hill	66	CW	53	3	53	3	55	3	56	3	56	3	56	3	57	3	57	3	58	3	59	3
El Arish	22	FN	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0
Garbutt	66	R	111	10	112	10	113	10	114	10	110	8	110	8	111	8	113	9	114	9	115	9
Gin Gin	132	WB	171	17	173	17	175	17	176	17	178	18	178	18	179	18	180	18	182	18	184	18
Gladstone South	66	G	46	5	46	5	46	5	47	5	47	5	47	5	48	5	49	6	49	6	50	6



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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31			
			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	20	2	20	2	20	2	20	2	20	2	20	2	20	2	20	2	20	2	20	2	20	2
Innisfail	22	FN	27	4	27	4	27	4	28	4	28	4	28	4	28	4	28	4	28	4	28	5	29	5
Kamerunga	22	FN	55	3	56	3	57	3	58	3	59	3	60	3	60	3	61	3	62	3	62	3	63	3
Lilyvale (Barcardine & Clermont)	132	CW	43	12	43	12	43	12	43	12	43	12	43	12	43	12	43	12	43	12	43	12	44	12
Lilyvale	66	CW	138	60	139	60	140	61	141	61	141	61	141	61	140	61	141	61	141	61	141	61	141	61
Mackay	33	N	88	21	87	20	88	21	87	20	88	21	87	20	88	21	89	21	89	21	90	21	91	21
Middle Ridge	110	SW	225	57	225	57	227	58	228	58	229	58	229	58	231	59	232	59	234	60	234	60	237	60
Middle Ridge (Postmans Ridge)	110	M	29	8	29	8	29	8	29	8	30	8	30	8	30	8	30	8	30	8	30	8	30	8
Moranbah (Broadlea)	132	N	49	12	56	13	56	13	57	13	57	13	57	13	57	13	57	13	57	13	57	13	57	13
Moranbah	66 and 11	N	133	45	133	45	135	46	135	46	136	46	136	46	135	46	136	46	136	46	136	46	136	46
Moura	66	CW	61	20	61	20	63	21	63	21	63	21	63	21	63	21	63	21	63	21	63	21	63	21
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0
Newlands	66	N	27	6	27	6	27	6	27	6	27	6	27	6	27	6	27	6	27	6	27	6	27	6
Oakey	110	SW	23	8	22	8	23	8	23	8	23	8	23	8	23	8	23	8	23	9	23	9	23	9
Pandoin	66	CW	42	2	42	2	44	2	44	2	44	2	44	2	45	2	45	2	45	2	45	2	46	2
Pioneer Valley	66	N	70	12	71	12	72	12	72	12	73	12	73	12	74	12	75	12	75	12	75	12	76	12
Proserpine	66	N	48	8	49	8	49	9	50	9	50	9	51	9	51	9	52	9	52	9	52	9	53	9
Rockhampton	66	CW	97	5	97	5	100	5	101	5	102	5	102	5	103	6	104	6	104	6	104	6	106	6
Ross (Kidston, Millicester and Georgetown)	132	R	44	9	44	9	44	9	44	9	44	9	44	9	44	9	44	9	44	9	44	9	44	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	3	1
Tangkam	110	SW	40	7	41	7	42	7	42	7	42	7	42	7	42	7	42	7	42	7	42	7	43	7
Tarong	66	SW	45	11	45	12	46	12	46	12	46	12	46	12	46	12	47	12	47	12	47	12	48	12

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			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	148	49	153	50	155	51	156	51	157	52	157	52	159	52	160	53	162	53	164	54
Townsville East	66	R	48	4	48	4	49	4	49	4	47	4	47	4	48	4	48	4	49	4	50	4
Townsville South	66	R	105	9	106	9	107	9	108	9	104	8	105	8	106	8	107	8	108	8	109	8
Tully	22	R	15	2	15	2	15	2	15	2	15	2	15	2	15	2	15	2	16	2	16	2
Turkinje (Craigie and Lakeland)	132	FN	21	13	22	13	22	13	29	17	29	17	29	17	29	18	30	18	30	18	30	18
Turkinje	66	FN	63	2	63	2	64	2	58	2	58	2	59	2	59	2	60	2	61	2	61	2
Woolooga (Kilkivan)	132	WB	16	3	16	3	16	3	16	3	16	3	16	3	16	3	17	3	17	3	17	3
Woree (Caims North)	132	FN	48	2	49	2	49	2	50	2	51	2	51	2	52	2	52	2	53	2	54	2
Yarwun (Boat Creek)	132	G	43	18	43	18	44	18	44	18	44	18	44	18	44	18	44	18	44	18	44	18
Hail Creek and King Creek	Various	N	38	7	38	7	38	7	38	7	38	7	38	7	38	7	38	7	38	7	38	7

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			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	3	18	3	18	3	18	3	18	3	18	3	19	3	19	3	19	4	19	4	20	4
Aligator Creek (Louisa Creek)	132	N	35	11	36	12	36	12	37	12	37	12	37	12	37	12	37	12	38	12	38	12	39	13
Alligator Creek	33	N	19	3	19	4	19	4	19	4	20	4	20	4	21	4	21	4	21	4	21	4	22	4
Biloela	66	CW	29	7	29	7	30	7	30	7	30	7	30	7	31	7	31	7	31	7	32	7	32	7
Blackwater	132	CW	25	9	25	9	25	9	26	10	26	10	26	10	27	10	27	10	27	10	28	10	28	10
Blackwater	66	CW	98	9	99	9	100	10	101	10	103	10	103	10	104	10	104	10	105	10	106	10	107	10
Bowen North	66	N	22	7	22	7	23	7	23	7	23	7	24	7	24	8	24	8	24	8	25	8	25	8
Bull Creek (Waggamba)	132	B	18	6	19	6	19	6	19	7	19	7	19	7	19	7	19	7	20	7	20	7	20	7
Cairns	22	FN	33	6	32	6	33	6	33	6	33	6	33	6	34	6	34	6	35	6	35	6	36	6
Cairns City	132	FN	35	0	35	0	36	0	36	0	36	0	36	0	37	0	37	0	37	0	38	0	39	0
Calliope River	132	G	43	2	43	2	44	2	44	2	45	2	45	2	45	2	45	2	46	2	47	2	47	2
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	18	3	18	3	19	3	19	3	19	3	19	3	20	3	20	3	20	3	20	3	20	3
Clare South	66	R	50	9	50	9	51	10	51	10	52	10	52	10	53	10	53	10	53	10	54	10	55	10
Collinsville North	33	N	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4	16	4	16	4	16	4
Columboola	132	S	60	16	60	16	61	17	61	17	62	17	62	17	63	17	63	17	64	17	65	18	65	18
Dan Gleeson	66	R	89	5	90	5	92	5	93	5	88	3	89	3	91	3	91	3	94	3	96	3	98	3
Dysart	66	CW	42	8	42	8	43	8	48	10	53	11	62	12	70	14	71	14	71	14	72	14	72	14
Edmonton	22	FN	25	3	26	3	26	3	27	3	28	4	28	4	29	4	29	4	30	4	30	4	31	4
Egans Hill	66	CW	48	4	50	5	51	5	52	5	53	5	53	5	55	5	55	5	56	5	57	5	58	5
El Arish	22	FN	4	0	4	0	4	0	4	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0
Garbutt	66	R	97	5	98	5	100	6	102	6	96	3	97	3	100	3	102	3	102	3	104	3	106	3
Gin Gin	132	WB	137	16	139	16	141	16	143	16	145	16	146	17	149	17	149	17	151	17	154	18	157	18
Gladstone South	66	G	41	21	41	21	42	21	43	22	43	22	44	22	45	23	45	23	46	23	47	24	48	24

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031	
			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	16	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2	17	2
Innisfail	22	FN	19	4	19	4	19	4	20	4	20	4	20	4	20	4	21	4	21	4	22	4
Kamerunga	22	FN	35	3	36	4	37	4	38	4	39	4	39	4	40	4	41	4	41	4	42	4
Lilyvale (Barcaldine & Clermont)	132	CW	32	12	32	12	33	12	33	12	34	13	34	13	34	13	35	13	35	13	36	13
Lilyvale	66	CW	135	54	136	55	138	56	139	56	141	57	142	57	143	58	145	59	146	59	147	59
Mackay	33	N	58	17	58	16	59	16	59	16	60	17	60	17	61	17	62	17	63	18	65	18
Middle Ridge	110	SW	266	46	267	46	270	47	272	47	276	48	279	48	284	49	289	50	294	51	300	52
Middle Ridge (Postmans Ridge)	110	M	14	4	14	4	15	4	15	4	15	4	15	4	15	5	16	5	16	5	16	5
Moranbah (Broadlea)	132	N	47	10	53	11	54	11	54	11	55	11	55	11	56	11	56	11	57	12	57	12
Moranbah	66 and 11	N	128	42	129	42	131	43	133	43	135	44	135	44	137	44	138	45	140	45	141	45
Moura	66	CW	62	20	63	20	64	21	64	21	65	21	65	21	66	21	67	22	68	22	68	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	24	1	24	1	25	1	25	1	25	2	25	2	26	2	26	2	26	2	26	2
Oakey	110	SW	20	6	20	6	20	6	21	6	21	6	21	6	21	6	22	6	22	6	23	6
Pandoin	66	CW	36	3	38	4	38	4	39	4	40	4	40	4	41	4	42	4	43	4	44	4
Pioneer Valley	66	N	46	4	46	4	47	4	48	4	49	4	49	4	50	4	51	4	52	4	53	4
Proserpine	66	N	31	2	31	2	32	2	32	2	33	3	33	3	34	3	35	3	35	3	36	3
Rockhampton	66	CW	66	5	69	6	70	7	71	7	72	7	73	7	74	7	76	7	77	7	79	7
Ross (Kidston, Millichester and Georgetown)	132	R	31	15	31	15	31	15	31	15	32	15	32	15	32	16	33	16	33	16	34	16
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	31	6	31	6	32	6	32	6	32	6	33	6	33	7	34	7	34	7	35	7
Tarong	66	SW	50	12	51	12	51	12	52	12	53	12	53	12	54	13	55	13	56	13	57	13

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031	
			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	136	35	140	36	143	36	145	37	147	37	149	38	152	39	155	40	159	40	162	41
Townsville East	66	R	33	2	33	2	34	2	35	2	33	1	33	1	34	1	35	1	35	1	36	1
Townsville South	66	R	80	4	81	5	83	5	84	5	79	2	81	2	82	2	84	3	86	3	88	3
Tully	22	R	10	2	11	2	11	2	11	2	11	2	11	2	11	2	12	2	12	2	12	2
Turkinje (Craigie and Lakeland)	132	FN	14	11	14	11	14	11	21	16	22	17	22	17	23	17	23	18	23	18	24	18
Turkinje	66	FN	54	3	55	3	56	3	51	3	52	3	53	3	54	3	55	3	56	3	58	3
Woolooga (Kilkivan)	132	WB	16	5	16	5	16	5	16	5	17	5	17	5	17	5	17	5	18	5	18	5
Woree (Caims North)	132	FN	34	5	35	5	35	5	36	5	37	5	37	5	38	5	39	5	40	6	41	6
Yarwun (Boat Creek)	132	G	42	16	43	16	43	16	44	16	44	16	44	16	45	17	45	17	46	17	46	17
Hail Creek and King Creek	Various	N	37	7	37	7	37	7	38	7	38	7	38	7	39	7	39	7	40	7	40	7

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Alan Sherriff	132	R	17	3	17	3	17	3	17	3	18	3	18	3	18	3	18	3	18	3	19	3	19	4
Aligator Creek (Louisa Creek)	132	N	35	11	35	11	35	12	36	12	36	12	36	12	36	12	37	12	37	12	37	12	37	12
Alligator Creek	33	N	18	3	18	3	19	4	19	4	19	4	19	4	20	4	20	4	20	4	21	4	21	4
Biloela	66	CW	29	6	29	6	29	7	29	7	30	7	30	7	30	7	30	7	30	7	30	7	30	7
Blackwater	132	CW	25	9	25	9	25	9	25	9	37	14	48	18	48	18	48	18	48	18	49	18	49	18
Blackwater	66	CW	97	9	97	9	98	9	99	10	100	10	100	10	100	10	101	10	101	10	102	10	102	10
Bowen North	66	N	22	7	22	7	22	7	23	7	23	7	23	7	23	7	23	7	23	7	23	7	24	7
Bull Creek (Waggamba)	132	B	18	6	18	6	18	6	19	6	19	6	19	6	19	6	19	6	19	6	19	6	19	7
Cairns	22	FN	32	6	32	5	32	5	32	5	32	6	32	6	33	6	33	6	33	6	34	6	35	6
Cairns City	132	FN	35	0	35	0	35	0	35	0	35	0	35	0	36	0	36	0	36	0	36	0	37	0
Calliope River	132	G	43	2	43	2	43	2	43	2	44	2	44	2	44	2	44	2	44	2	45	2	45	2
Cardwell	22	R	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	4	1	4	1	4	1
Chinchilla	132	S	18	3	18	3	18	3	18	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3
Clare South	66	R	49	9	49	9	50	9	50	9	50	10	50	10	51	10	51	10	51	10	52	10	52	10
Collinsville North	33	N	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4
Columboola	132	S	59	16	59	16	60	16	60	16	60	17	60	17	61	17	61	17	61	17	62	17	62	17
Dan Gleeson	66	R	88	5	89	5	90	5	91	5	86	2	87	3	88	3	88	3	90	3	91	3	93	3
Dysart	66	CW	41	8	41	8	42	8	47	9	52	10	60	12	68	13	68	14	68	14	69	14	69	14
Edmonton	22	FN	25	3	25	3	26	3	27	3	27	3	27	4	28	4	28	4	29	4	29	4	30	4
Egans Hill	66	CW	48	4	50	5	50	5	51	5	51	5	52	5	53	5	53	5	53	5	54	5	55	5
El Arish	22	FN	4	0	4	0	4	0	4	0	4	0	4	0	5	0	5	0	5	0	5	0	5	0
Garbutt	66	R	96	5	97	5	98	5	99	6	93	3	94	3	96	3	96	3	98	3	100	3	101	3
Gin Gin	132	WB	136	15	136	16	138	16	140	16	141	16	142	16	144	16	144	16	146	17	147	17	150	17
Gladstone South	66	G	41	21	41	21	41	21	42	21	42	21	43	22	43	22	43	22	44	22	45	23	46	23

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			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	15	2	15	2	15	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2
Innisfail	22	FN	19	4	19	4	19	4	19	4	19	4	20	4	20	4	20	4	20	4	20	4	21	4
Kamerunga	22	FN	35	3	36	3	36	4	37	4	38	4	38	4	39	4	40	4	40	4	40	4	41	4
Lilyvale (Barcardine & Clermont)	132	CW	32	12	32	12	32	12	33	12	33	12	33	12	33	12	33	12	34	12	34	12	34	13
Lilyvale	66	CW	133	54	134	54	135	55	137	55	137	56	137	56	138	56	139	56	140	56	140	56	140	57
Mackay	33	N	57	17	57	16	57	16	58	16	58	16	58	16	59	16	60	17	61	17	61	17	62	17
Middle Ridge	110	SW	262	45	263	45	265	46	266	46	269	46	271	47	274	47	278	48	281	49	281	49	286	49
Middle Ridge (Postmans Ridge)	110	M	14	4	14	4	14	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	5
Moranbah (Broadlea)	132	N	46	9	52	11	53	11	53	11	54	11	54	11	54	11	54	11	54	11	54	11	55	11
Moranbah	66 and 11	N	127	41	127	41	129	42	130	42	131	42	131	42	132	43	133	43	134	43	134	43	134	43
Moura	66	CW	61	20	62	20	63	20	63	20	64	21	63	21	64	21	64	21	65	21	65	21	65	21
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0
Newlands	66	N	24	1	24	1	24	1	25	1	25	1	25	1	25	1	25	1	25	1	25	1	25	1
Oakey	110	SW	20	6	20	6	20	6	20	6	20	6	20	6	21	6	21	6	21	6	21	6	22	6
Pandoin	66	CW	36	3	37	4	38	4	38	4	39	4	39	4	40	4	40	4	41	4	41	4	42	4
Pioneer Valley	66	N	45	4	46	4	46	4	47	4	47	4	48	4	48	4	49	4	49	4	50	4	50	4
Proserpine	66	N	31	2	31	2	31	2	32	2	32	2	32	2	33	3	33	3	34	3	34	3	34	3
Rockhampton	66	CW	65	5	67	6	68	6	69	7	70	7	70	7	72	7	73	7	74	7	74	7	75	7
Ross (Kidston, Millicester and Georgetown)	132	R	30	15	30	15	31	15	31	15	31	15	31	15	31	15	32	15	32	15	32	15	32	15
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	1
Tangkam	110	SW	31	6	31	6	31	6	31	6	32	6	32	6	32	6	32	6	33	6	33	6	33	6
Tarong	66	SW	50	12	50	12	51	12	51	12	51	12	52	12	52	12	53	12	53	12	53	12	54	13

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			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>
Teabar Creek (Isis and Maryborough)	132	WB	135	34	138	35	140	36	142	36	143	36	145	37	147	37	149	38	152	39	155	39		
Townsville East	66	R	33	2	33	2	33	2	34	2	32	1	32	1	33	1	33	1	34	1	34	1	35	1
Townsville South	66	R	79	4	80	4	81	5	82	5	77	2	78	2	80	2	81	2	82	2	84	3		
Tully	22	R	10	2	10	2	11	2	11	2	11	2	11	2	11	2	11	2	11	2	11	2		
Turkinje (Craigie and Lakeland)	132	FN	14	11	14	11	13	11	21	16	21	16	21	16	22	17	22	17	22	17	23	18		
Turkinje	66	FN	54	3	54	3	55	3	50	2	51	2	51	3	52	3	53	3	54	3	55	3		
Woolooga (Kilkivan)	132	WB	16	5	16	5	16	5	16	5	16	5	16	5	17	5	17	5	17	5	17	5		
Woree (Caims North)	132	FN	34	5	34	5	35	5	35	5	36	5	36	5	37	5	38	5	38	5	39	5		
Yarwun (Boat Creek)	132	G	42	15	42	16	42	16	43	16	43	16	43	16	43	16	44	16	44	16	44	16		
Hail Creek and King Creek	Various	N	36	7	36	7	37	7	37	7	37	7	37	7	37	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	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			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	17	3	17	3	17	3	17	3	17	3	17	3	17	3	17	3	18	3	18	3	18	3
Alligator Creek (Louisa Creek)	132	N	34	11	35	11	35	11	35	11	35	11	35	11	35	11	35	11	35	11	35	11	35	11
Alligator Creek	33	N	18	3	18	3	19	3	19	3	19	4	19	4	19	4	20	4	20	4	20	4	20	4
Biloela	66	CW	29	6	29	6	29	6	29	6	29	6	29	6	29	6	29	6	29	6	29	6	29	6
Blackwater	132	CW	24	9	24	9	25	9	25	9	36	13	47	17	47	17	47	17	47	17	47	17	47	17
Blackwater	66	CW	96	9	96	9	97	9	97	9	98	9	97	9	97	9	97	9	98	9	97	9	98	9
Bowen North	66	N	22	7	22	7	22	7	22	7	22	7	22	7	22	7	22	7	23	7	23	7	23	7
Bull Creek (Waggamba)	132	B	18	6	18	6	18	6	18	6	18	6	18	6	18	6	18	6	18	6	18	6	18	6
Cairns	22	FN	32	6	32	5	31	5	31	5	31	5	31	5	32	5	32	6	33	6	33	6	33	6
Cairns City	132	FN	35	0	35	0	35	0	35	0	35	0	34	0	35	0	35	0	35	0	35	0	35	0
Calliope River	132	G	42	2	42	2	42	2	43	2	43	2	42	2	43	2	43	2	43	2	43	2	43	2
Cardwell	22	R	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Chinchilla	132	S	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3
Clare South	66	R	48	9	49	9	49	9	49	9	49	9	49	9	49	9	49	9	50	9	50	9	50	9
Collinsville North	33	N	15	4	14	4	14	4	14	4	14	4	14	4	14	4	14	4	14	4	14	4	14	4
Columboola	132	S	58	16	58	16	59	16	59	16	59	16	59	16	59	16	59	16	59	16	59	16	60	16
Dan Gleeson	66	R	87	5	88	5	89	5	90	5	84	2	85	2	86	3	87	3	88	3	88	3	89	3
Dysart	66	CW	41	8	41	8	41	8	46	9	51	10	58	12	66	13	66	13	66	13	66	13	66	13
Edmonton	22	FN	25	3	25	3	26	3	26	3	26	3	27	3	27	3	28	4	28	4	28	4	28	4
Egans Hill	66	CW	47	4	49	5	50	5	50	5	50	5	51	5	51	5	52	5	52	5	52	5	53	5
El Arish	22	FN	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	5	0	5	0	5	0
Garbutt	66	R	95	5	96	5	97	5	98	5	91	3	92	3	93	3	95	3	95	3	96	3	97	3
Gin Gin	132	WB	134	15	135	15	136	16	137	16	138	16	138	16	139	16	141	16	142	16	142	16	143	16
Gladstone South	66	G	40	20	40	20	41	21	41	21	41	21	42	21	42	21	43	22	43	22	43	22	44	22

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031	
			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	15	2	15	2	15	2	15	2	15	2	15	2	15	2	15	2	15	2	15	2
Innisfail	22	FN	19	4	19	4	19	4	19	4	19	4	19	4	19	4	19	4	19	4	20	4
Kamerunga	22	FN	35	3	35	3	36	4	36	4	37	4	37	4	38	4	38	4	39	4	39	4
Lilyvale (Barcaldine & Clermont)	132	CW	32	12	32	12	32	12	32	12	32	12	32	12	32	12	32	12	32	12	32	12
Lilyvale	66	CW	132	53	132	53	133	54	134	54	134	54	134	54	134	54	135	54	134	54	134	54
Mackay	33	N	57	17	57	16	57	16	57	16	57	16	57	16	57	16	58	16	58	16	59	16
Middle Ridge	110	SW	259	45	260	45	262	45	262	45	263	45	264	46	266	46	268	46	270	47	274	47
Middle Ridge (Postmans Ridge)	110	M	14	4	14	4	14	4	14	4	14	4	14	4	14	4	15	4	15	4	15	4
Moranbah (Broadlea)	132	N	46	9	52	11	52	11	52	11	52	11	52	11	52	11	52	11	52	11	52	11
Moranbah	66 and 11	N	125	41	126	41	127	41	128	41	128	42	128	41	128	41	129	42	128	41	128	41
Moura	66	CW	60	20	61	20	62	20	62	20	62	20	62	20	62	20	62	20	62	20	62	20
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	24	1	24	1	24	1	24	1	24	1	24	1	24	1	24	1	24	1	24	1
Oakey	110	SW	20	6	20	6	20	6	20	6	20	6	20	6	20	6	20	6	20	6	21	6
Pandoin	66	CW	35	3	37	3	37	4	37	4	38	4	38	4	38	4	39	4	39	4	40	4
Pioneer Valley	66	N	45	3	45	4	46	4	46	4	46	4	47	4	47	4	47	4	48	4	48	4
Proserpine	66	N	30	2	30	2	31	2	31	2	31	2	31	2	32	2	32	2	33	2	33	3
Rockhampton	66	CW	64	5	67	6	67	6	68	6	68	6	69	6	69	6	70	7	71	7	72	7
Ross (Kidston, Millichester and Georgetown)	132	R	30	14	30	14	30	15	30	15	30	15	30	15	30	15	31	15	30	15	31	15
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	30	6	30	6	31	6	31	6	31	6	31	6	31	6	31	6	31	6	32	6
Tarong	66	SW	49	12	50	12	50	12	50	12	50	12	50	12	50	12	51	12	51	12	52	12

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031	
			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	133	34	137	35	138	35	139	35	140	36	141	36	142	36	144	37	146	37	148	38
Townsville East	66	R	32	2	33	2	33	2	33	2	31	1	31	1	32	1	32	1	33	1	33	1
Townsville South	66	R	79	4	79	4	80	4	81	4	76	2	76	2	77	2	78	2	79	2	80	2
Tully	22	R	10	2	10	2	10	2	10	2	11	2	11	2	11	2	11	2	11	2	11	2
Turkinje (Craigie and Lakeland)	132	FN	14	11	14	11	13	11	21	16	21	16	21	16	21	16	21	16	22	17	22	17
Turkinje	66	FN	53	3	53	3	54	3	49	2	50	2	50	2	51	2	51	3	52	3	53	3
Woolooga (Kilkivan)	132	WB	15	5	15	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5
Woree (Caims North)	132	FN	33	5	34	5	34	5	34	5	35	5	35	5	36	5	36	5	37	5	37	5
Yarwun (Boat Creek)	132	G	41	15	41	15	42	16	42	16	42	16	42	16	42	16	42	16	42	16	42	16
Hail Creek and King Creek	Various	N	36	7	36	7	36	7	36	7	36	7	36	7	36	7	37	7	36	7	36	7

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Abermain	110	M	77	10	77	10	79	10	81	11	86	11	88	12	90	12	92	12	94	12	95	12
Abermain	33	M	116	14	118	15	127	16	131	16	134	17	136	17	139	17	142	18	144	18	147	18
Algester	33	M	72	18	73	18	72	18	72	18	73	18	73	18	75	19	76	19	78	20	80	20
Ashgrove West	110	M	121	25	127	27	132	28	133	28	134	28	134	28	136	29	142	30	144	30	145	30
Ashgrove West	33	M	76	9	76	9	76	9	76	9	76	9	77	9	79	9	80	9	82	9	83	10
Belmont	110	M	439	95	447	97	453	99	454	99	457	99	467	102	482	105	492	107	501	109	507	110
Blackstone (Raceview)	110	M	114	14	115	14	117	14	118	15	121	15	122	15	126	16	130	16	133	16	136	17
Bundamba	110	M	39	14	39	14	39	14	39	14	40	14	40	14	40	14	41	15	42	15	42	15
Goodna	33	M	139	5	138	5	142	5	145	5	149	5	154	5	162	5	169	6	176	6	182	6
Loganlea	110	M	416	146	417	146	421	147	423	148	430	151	438	153	453	159	466	163	478	167	489	171
Loganlea	33	M	103	7	103	7	103	7	103	7	104	7	104	7	107	7	109	7	111	8	113	8
Middle Ridge (Postmans Ridge and Gatton)	110	M	97	3	96	3	96	3	96	3	96	3	96	3	97	3	98	4	98	4	99	4
Molendinar	110	GC	486	11	492	12	496	12	500	12	507	12	513	12	527	12	542	13	555	13	567	13
Mudgeeraba	110	GC	368	100	370	101	372	102	374	102	378	103	382	104	392	107	401	110	410	112	417	114
Mudgeeraba	33	GC	23	6	23	6	24	6	24	6	24	6	24	7	25	7	26	7	26	7	27	7
Murarie	110	M	468	55	477	56	488	57	496	58	502	59	504	59	512	60	521	61	527	62	532	62
Palmwoods	110 & 132	M	451	146	460	148	472	152	476	154	484	156	493	159	508	164	525	169	539	174	558	180
Redbank Plains	11	M	31	4	37	5	37	5	38	5	39	5	40	6	42	6	44	6	46	6	48	7

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Richlands	33	M	120	18	120	18	120	18	120	18	120	18	121	18	123	19	126	19	128	19	129	20
Rocklea	110	M	143	35	144	35	144	35	144	35	144	35	145	35	148	36	150	36	153	37	154	37
Runcom	33	M	67	5	67	5	67	5	67	5	68	5	68	5	70	6	71	6	73	6	74	6
South Pine	110	M	972	90	984	91	993	92	996	92	1006	93	1018	94	1044	96	1069	99	1091	101	1110	102
Summer	110	M	36	12	36	12	36	12	35	12	35	12	35	12	36	12	37	13	38	13	38	13
Tennyson	33	M	179	10	185	11	188	11	190	11	191	11	192	11	195	11	199	12	202	12	204	12
Wecker Road	33	M	128	15	134	15	134	15	134	15	134	15	135	16	138	16	142	16	145	17	147	17
Woolooga (Gympie)	132	M	213	1	216	1	216	1	215	1	217	1	218	1	222	1	227	1	231	1	234	1

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Abermain	110	M	76	10	76	10	77	10	79	10	84	11	85	11	87	11	88	11	88	12	88	12
Abermain	33	M	115	14	116	14	125	16	129	16	131	16	132	16	134	17	136	17	137	17	137	17
Algester	33	M	71	18	71	18	71	18	71	18	71	18	71	18	72	18	73	18	73	18	74	19
Ashgrove West	110	M	120	25	125	26	130	27	130	27	130	27	130	27	131	27	136	28	136	28	135	28
Ashgrove West	33	M	75	9	75	9	75	9	74	9	75	9	75	9	76	9	77	9	77	9	77	9
Belmont	110	M	434	94	439	95	444	96	443	96	445	97	452	98	463	101	468	102	470	102	470	102
Blackstone (Raceview)	110	M	113	14	113	14	114	14	115	14	117	15	118	15	121	15	123	15	125	15	126	16
Bundamba	110	M	38	14	38	14	38	14	38	14	39	14	38	14	39	14	39	14	39	14	39	14
Goodna	33	M	137	5	136	4	139	5	141	5	145	5	149	5	155	5	161	5	165	5	169	6
Loganlea	110	M	411	144	410	144	412	144	413	145	419	147	424	148	435	152	443	155	449	157	454	159
Loganlea	33	M	102	7	102	7	101	7	101	7	101	7	101	7	102	7	104	7	104	7	105	7
Middle Ridge (Postmans Ridge and Gatton)	110	M	96	3	95	3	95	3	94	3	94	3	94	3	94	3	94	3	94	3	94	3
Molendinar	110	GC	480	11	485	11	486	11	489	11	493	12	496	12	506	12	515	12	521	12	526	12
Mudgeeraba	110	GC	364	99	364	99	365	100	366	100	369	101	370	101	377	103	383	105	387	106	389	106
Mudgeeraba	33	GC	23	6	23	6	23	6	23	6	24	6	24	6	24	6	24	7	25	7	25	7
Murarie	110	M	462	54	470	55	478	56	485	57	489	57	488	57	493	57	496	58	497	58	496	58
Palmwoods	110 & 132	M	446	144	453	146	461	149	465	150	471	152	476	154	488	157	499	161	506	163	518	167
Redbank Plains	11	M	31	4	36	5	37	5	37	5	38	5	39	5	41	6	42	6	43	6	44	6

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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Richlands	33	M	118	18	118	18	118	18	117	18	117	18	117	18	118	18	119	18	120	18	120	18
Rocklea	110	M	142	34	141	34	141	34	140	34	141	34	140	34	142	34	143	34	143	34	143	34
Runcom	33	M	66	5	66	5	66	5	66	5	66	5	66	5	67	5	68	5	68	5	69	5
South Pine	110	M	961	89	969	89	973	90	974	90	982	91	986	91	1004	93	1019	94	1029	95	1035	95
Summer	110	M	36	12	35	12	35	12	35	12	35	12	34	12	35	12	35	12	35	12	35	12
Tennyson	33	M	177	10	182	11	184	11	185	11	186	11	185	11	187	11	189	11	190	11	189	11
Wecker Road	33	M	127	15	132	15	131	15	131	15	131	15	131	15	133	15	135	15	136	16	137	16
Woolooga (Gympie)	132	M	211	1	212	1	211	1	210	1	211	1	211	1	213	1	215	1	216	1	217	1

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

Connection point	Voltage (kV)	Zone	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31												
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR										
Abermain	110	M	75	10	75	10	76	10	81	11	81	11	81	11										
Abermain	33	M	113	14	114	14	122	15	127	16	127	16	128	16	127	16								
Algester	33	M	70	18	70	18	69	17	68	17	68	17	68	17	68	17								
Ashgrove West	110	M	118	25	122	26	126	26	125	26	123	26	123	26	125	26	123	26						
Ashgrove West	33	M	75	9	74	8	73	8	72	8	72	8	72	8	72	8	71	8						
Belmont	110	M	429	93	431	94	432	94	428	93	427	93	429	93	435	95	435	94	430	94				
Blackstone (Raceview)	110	M	111	14	111	14	111	14	113	14	113	14	112	14	114	14	115	14	116	14	116	14		
Bundamba	110	M	38	13	37	13	37	13	37	13	37	13	36	13	36	13	36	13	36	13	36	13		
Goodna	33	M	135	4	133	4	135	4	136	4	139	5	141	5	146	5	150	5	153	5	155	5		
Loganlea	110	M	406	142	402	141	401	140	399	140	402	141	402	141	409	143	413	145	415	145	415	145	145	145
Loganlea	33	M	101	7	100	7	98	7	97	7	97	7	96	6	96	7	96	7	96	7	96	7	96	6
Middle Ridge (Postmans Ridge and Gatton)	110	M	95	3	94	3	93	3	92	3	91	3	90	3	90	3	90	3	90	3	90	3	89	3
Molendinar	110	GC	475	11	476	11	472	11	472	11	473	11	470	11	476	11	479	11	482	11	482	11	482	11
Mudgeeraba	110	GC	360	98	358	98	356	97	354	97	355	97	353	96	356	97	359	98	360	98	360	98	359	98
Mudgeeraba	33	GC	23	6	23	6	23	6	22	6	23	6	22	6	23	6	23	6	23	6	23	6	23	6
Murarie	110	M	457	53	462	54	466	54	470	55	470	55	464	54	465	54	464	54	461	54	461	54	456	53
Palmwoods	110 & 132	M	441	142	444	143	449	145	449	145	452	146	452	146	459	148	465	150	468	151	474	153	474	153
Redbank Plains	11	M	31	4	35	5	35	5	36	5	36	5	37	5	38	5	39	5	40	6	40	6	40	6



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

Connection point	Voltage (kV)	Zone	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Richlands	33	M	117	18	116	18	115	17	113	17	112	17	111	17	111	17	111	17	111	17	110	17
Rocklea	110	M	140	34	139	33	137	33	135	32	135	32	133	32	133	32	133	32	132	32	131	31
Runcom	33	M	65	5	65	5	64	5	63	5	63	5	62	5	63	5	63	5	63	5	63	5
South Pine	110	M	951	88	952	88	948	87	943	87	943	87	939	87	949	87	954	88	956	88	953	88
Summer	110	M	35	12	34	12	34	11	33	11	33	11	32	11	32	11	32	11	32	11	32	11
Tennyson	33	M	175	10	179	10	179	10	179	10	178	10	176	10	176	10	176	10	176	10	173	10
Wecker Road	33	M	125	14	129	15	128	15	126	14	125	14	124	14	125	14	125	14	126	14	125	14
Woolooga (Gympie)	132	M	208	1	208	1	206	1	203	1	202	1	200	1	201	1	201	1	200	1	199	1

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031	
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Abermain	110	M	50	13	50	13	52	14	57	15	60	16	61	16	63	16	64	17	66	17	68	18
Abermain	33	M	79	11	82	12	92	13	95	13	97	13	99	14	101	14	104	15	107	15	110	15
Algerter	33	M	57	10	58	10	58	10	59	10	59	10	61	11	62	11	64	11	66	11	68	12
Ashgrove West	110	M	82	18	88	19	91	20	93	20	94	20	95	21	97	21	103	22	105	23	107	23
Ashgrove West	33	M	59	2	60	2	60	2	60	2	61	2	62	2	64	2	66	2	67	2	69	2
Belmont	110	M	269	30	272	31	275	31	280	32	287	32	297	33	304	34	313	35	320	36	329	37
Blackstone (Raceview)	110	M	71	11	72	11	73	11	76	12	77	12	80	12	82	13	86	13	88	13	92	14
Bundamba	110	M	32	12	33	12	33	13	33	13	34	13	34	13	35	13	36	14	37	14	37	14
Goodna	33	M	102	7	102	7	105	7	109	7	113	7	119	8	125	8	131	9	137	9	145	10
Loganlea	110	M	324	51	329	52	332	52	340	54	346	55	361	57	373	59	386	61	398	63	414	65
Loganlea	33	M	80	16	81	16	81	16	82	16	83	17	85	17	88	18	90	18	92	18	95	19
Middle Ridge (Postmans Ridge and Gatton)	110	M	108	11	108	11	108	11	109	11	109	11	110	12	111	12	113	12	114	12	115	12
Molendinar	110	GC	418	0	427	0	430	0	442	0	448	0	462	0	477	0	493	0	508	0	528	0
Mudgeeraba	110	GC	234	41	237	41	239	42	243	42	247	43	253	44	260	45	268	47	275	48	284	49
Mudgeeraba	33	GC	20	3	20	3	20	3	21	3	21	3	22	3	22	4	23	4	24	4	25	4
Murarie	110	M	411	47	420	48	428	49	444	51	450	52	459	53	468	54	479	55	487	56	499	58
Palmwoods	110 & 132	M	331	110	343	114	350	116	359	119	367	122	380	126	394	131	409	136	424	141	443	147
Redbank Plains	11	M	22	1	26	1	27	1	28	1	28	1	30	1	31	1	33	1	35	1	36	1

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR
Richlands	33	M	94	11	95	11	95	11	96	11	97	11	99	11	102	12	104	12	107	12	110	12	110	12
Rocklea	110	M	119	25	120	26	120	26	122	26	122	26	125	27	127	27	130	28	132	28	136	29	136	29
Runcom	33	M	51	1	51	1	51	1	52	1	53	1	54	2	56	2	57	2	59	2	61	2	61	2
South Pine	110	M	826	83	843	84	848	85	865	86	876	88	899	90	923	92	951	95	975	97	1006	101	1006	101
Summer	110	M	24	4	23	4	23	4	24	4	24	4	24	4	25	5	25	5	26	5	26	5	26	5
Tennyson	33	M	141	11	148	11	149	11	154	12	155	12	158	12	162	12	167	13	170	13	175	13	175	13
Wecker Road	33	M	94	5	99	5	99	5	101	5	101	5	104	6	107	6	110	6	113	6	117	6	117	6
Woolooga (Gympie)	132	M	201	0	205	0	205	0	208	0	210	0	215	0	220	0	226	0	231	0	238	0	238	0

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		
			MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW	MVAR	MW
Abermain	110	M	49	13	49	13	50	13	55	14	57	15	58	15	58	15	59	16	60	16	60	16	60
Abermain	33	M	78	11	81	11	89	12	92	13	92	13	94	13	96	13	97	14	98	14	99	14	99
Algerter	33	M	56	10	57	10	56	10	56	10	56	10	57	10	58	10	59	10	60	10	60	10	61
Ashgrove West	110	M	80	17	86	19	88	19	89	19	89	19	90	20	91	20	95	21	95	21	95	21	96
Ashgrove West	33	M	58	2	58	2	58	2	58	2	58	2	59	2	60	2	61	2	61	2	61	2	62
Belmont	110	M	263	30	265	30	266	30	268	30	273	31	280	32	284	32	288	32	291	33	293	33	293
Blackstone (Raceview)	110	M	69	11	70	11	71	11	73	11	73	11	75	11	77	12	79	12	80	12	80	12	82
Bundamba	110	M	31	12	32	12	32	12	32	12	32	12	32	12	33	12	33	13	33	13	33	13	33
Goodna	33	M	100	7	100	7	102	7	105	7	107	7	112	7	116	8	121	8	125	8	125	8	129
Loganlea	110	M	317	50	320	51	321	51	325	51	329	52	340	54	347	55	356	56	362	57	368	58	368
Loganlea	33	M	79	16	79	16	79	16	79	16	79	16	80	16	82	16	83	17	84	17	84	17	85
Middle Ridge (Postmans Ridge and Gatton)	110	M	107	11	106	11	106	11	106	11	105	11	106	11	107	11	107	11	107	11	107	11	108
Molendinar	110	GC	410	0	416	0	417	0	423	0	426	0	435	0	444	0	454	0	462	0	462	0	470
Mudgeeraba	110	GC	230	40	232	40	232	40	234	41	235	41	240	42	244	42	249	43	252	44	255	44	255
Mudgeeraba	33	GC	20	3	20	3	20	3	20	3	20	3	21	3	21	3	21	3	22	3	22	3	22
Murarie	110	M	403	47	410	47	416	48	427	49	429	49	435	50	438	51	443	51	445	51	447	52	447
Palmwoods	110 & 132	M	325	108	334	111	338	112	344	114	348	116	358	119	367	122	376	125	385	128	395	131	395
Redbank Plains	11	M	21	1	25	1	26	1	26	1	27	1	28	1	29	1	30	1	31	1	31	1	32

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			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>
Richlands	33	M	92	10	93	10	92	10	92	10	92	10	94	11	95	11	96	11	97	11	98	11	98	11
Rocklea	110	M	116	25	117	25	116	25	117	25	116	25	118	25	119	25	120	25	120	26	121	26	121	26
Runcom	33	M	50	1	50	1	50	1	50	1	50	1	51	1	52	1	53	1	54	2	54	2	54	2
South Pine	110	M	812	81	823	82	823	82	832	83	836	84	852	85	866	87	881	88	892	89	904	90	904	90
Summer	110	M	23	4	23	4	22	4	23	4	22	4	23	4	23	4	23	4	23	4	24	4	24	4
Tennyson	33	M	138	11	144	11	145	11	147	11	147	11	149	11	151	12	153	12	154	12	155	12	155	12
Wecker Road	33	M	92	5	97	5	96	5	96	5	96	5	98	5	100	5	102	5	103	5	105	6	105	6
Woolooga (Gympie)	132	M	197	0	200	0	199	0	200	0	200	0	203	0	205	0	208	0	210	0	212	0	212	0

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

Connection point	Voltage (kV)	Zone	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031										
			MW	MVar	MW	MVar	MW	MVar	MW	MVar	MW	MVar	MW	MVar								
Abermain	110	M	48	13	48	13	48	14	53	14	54	14	53	14	53	14						
Abermain	33	M	76	11	79	11	86	12	88	12	88	12	89	12	89	12						
Algerter	33	M	55	10	55	10	54	9	53	9	53	9	53	9	53	9						
Ashgrove West	110	M	78	17	83	18	84	18	83	18	83	18	83	18	86	19	85	19	84	18		
Ashgrove West	33	M	57	2	57	2	56	2	55	2	55	2	55	2	56	2	56	2	56	2		
Belmont	110	M	258	29	257	29	256	29	256	29	256	29	259	29	261	29	260	29	259	29		
Blackstone (Raceview)	110	M	68	10	68	10	68	10	69	10	69	10	70	11	71	11	72	11	72	11		
Bundamba	110	M	31	12	31	12	30	12	30	11	30	11	30	11	30	11	29	11	29	11		
Goodna	33	M	98	6	97	6	98	6	99	7	101	7	104	7	107	7	109	7	111	7	114	8
Loganlea	110	M	311	49	311	49	309	49	308	49	309	49	315	50	318	50	322	51	323	51	325	51
Loganlea	33	M	77	15	77	15	76	15	75	15	74	15	75	15	75	15	75	15	75	15	75	15
Middle Ridge (Postmans Ridge and Gatton)	110	M	105	11	105	11	103	11	102	11	102	11	102	11	101	11	101	11	100	11	100	11
Molendinar	110	GC	402	0	405	0	400	0	399	0	399	0	404	0	406	0	411	0	412	0	415	0
Mudgeeraba	110	GC	226	39	226	39	224	39	222	39	222	39	224	39	225	39	227	40	228	40	228	40
Mudgeeraba	33	GC	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	20	3
Murarie	110	M	396	46	399	46	400	46	406	47	404	47	405	47	404	47	404	47	401	46	399	46
Palmwoods	110 & 132	M	318	106	324	108	325	108	326	108	327	108	332	110	336	111	340	113	344	114	348	116
Redbank Plains	11	M	21	1	24	1	25	1	25	1	25	1	26	1	26	1	27	1	28	1	28	1

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

Connection point	Voltage (kV)	Zone	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031			
			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>
Richlands	33	M	90	10	90	10	88	10	87	10	86	10	87	10	87	10	87	10	87	10	87	10	87	10
Rocklea	110	M	114	24	114	24	111	24	110	23	109	23	109	23	109	23	108	23	108	23	107	23	106	23
Runcom	33	M	49	1	48	1	48	1	47	1	47	1	47	1	47	1	48	1	48	1	48	1	48	1
South Pine	110	M	797	80	802	80	794	79	791	79	789	79	795	80	799	80	805	80	805	80	805	81	807	81
Summer	110	M	22	4	22	4	21	4	21	4	21	4	21	4	21	4	21	4	21	4	21	4	21	4
Tennyson	33	M	136	10	140	11	139	11	139	11	138	11	138	11	138	11	139	11	138	11	138	11	137	11
Wecker Road	33	M	90	5	94	5	92	5	91	5	90	5	91	5	91	5	92	5	92	5	92	5	92	5
Woolooga (Gympie)	132	M	193	0	194	0	191	0	189	0	187	0	188	0	188	0	188	0	187	0	187	0	187	0

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

Connection point (1)	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31											
	MW	MVar	MW	MVar	MW	MVar	MW	MVar	MW	MVar											
Transmission connected industrial loads (2)	1,311	463	1,321	469	21	99	34	106	37	110	39	113	40	110	39	111	39	114	40	115	40
Transmission connected mining loads (3)	60	17	69	21	99	34	106	37	110	39	113	40	110	39	111	39	114	40	115	40	
Transmission connected CSG loads (4)	839	102	873	113	855	112	859	112	858	110	860	103	849	102	826	106	812	105	766	98	
Transmission connected rail supply substations (5)(6)	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVar) 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, Onoore, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Granteigh, 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 MVar) coincident peak is significantly lower.



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

Connection point (1)	2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31			
	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)	1,171	391	1,176	395	1,179	397	1,182	398	1,184	400	1,184	400	1,184	400	1,184	400	1,184	400	348	171	348	171
Transmission connected mining loads (3)	59	16	64	18	91	28	101	34	110	39	113	40	110	39	111	39	114	40	114	40	115	40
Transmission connected CSG loads (4)	813	98	820	105	808	104	815	105	808	103	799	95	776	94	745	97	720	93	720	93	699	89
Transmission connected rail supply substations (5)(6)	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240

**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, Onoole, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Grange, 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)	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
	MW MVAR	MW MVAR	MW MVAR	MW MVAR	MW MVAR	MW MVAR	MW MVAR	MW MVAR	MW MVAR	MW MVAR
Transmission connected industrial loads (2)	1,171 391	1,175 395	1,177 397	1,180 398	1,181 400	1,181 400	1,181 400	1,181 400	348 171	348 171
Transmission connected mining loads (3)	57 15	58 15	75 21	76 22	79 23	82 23	79 23	80 23	82 24	83 24
Transmission connected CSG loads (4)	790 94	695 92	686 91	691 92	687 90	680 82	661 81	635 85	613 82	596 78
Transmission connected rail supply substations (5)(6)	243 -240	243 -240	243 -240	243 -240	243 -240	243 -240	243 -240	243 -240	243 -240	243 -240

**Notes:**

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVAR) 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, Onoole, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Grangeleigh, 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 MVAR) coincident peak is significantly lower.

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

Connection point (1)	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031 (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)	1,323	475	1,321	474	1,333	480	1,336	481	1,337	482	1,337	482	1,337	482	1,337	482	1,337	482	1,337	482	1,337	482
Transmission connected mining loads (3)	66	20	84	29	105	37	108	38	113	40	110	39	109	38	114	40	115	40	115	40	115	40
Transmission connected CSG loads (4)	873	112	850	110	857	111	853	108	863	102	847	102	828	107	807	103	769	97	736	91	736	91
Transmission connected rail supply substations (5)(6)	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240

**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, Onoole, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Grange, 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 2031 have been extrapolated.

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

Connection point (1)	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031 (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)	1,175	396	1,173	395	1,185	403	1,189	406	1,189	406	1,189	406	1,189	406	1,189	406	1,189	353	177	353	177	
Transmission connected mining loads (3)	61	17	76	24	100	34	108	38	113	40	110	39	109	38	114	40	115	40	115	40	115	40
Transmission connected CSG loads (4)	791	96	810	104	814	105	807	103	804	96	779	94	750	97	722	93	700	89	679	85	679	85
Transmission connected rail supply substations (5)(6)	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240

**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, Onoole, Peak Downs, Wandoan and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Granteigh, 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 2031 have been extrapolated.

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

Connection point (1)	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031 (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)	1,175	396	1,173	395	1,183	404	1,186	406	1,186	406	1,186	406	1,186	406	1,186	406	353	177	353	177
Transmission connected mining loads (3)	56	14	64	18	76	22	78	22	82	24	80	23	79	23	83	24	83	24	83	24
Transmission connected CSG loads (4)	668	84	687	91	689	90	686	90	684	82	663	81	640	85	615	82	596	78	579	75
Transmission connected rail supply substations (5)(6)	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240	243	-240

**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, Onoole, Peak Downs, Wandoo and Wotonga.  
Central West zone – Blackwater, Bluff, Duaringa, Grange, 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 2031 have been extrapolated.