Forecast of connection point maximum demands

Customer forecasts of connection point peaks

Tables C.1 to C.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 C.2). These forecasts have been supplied by Powerlink customers.

The connection point reactive power (MVAr) 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 C.1 to C.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 C.1 Ergon connection point forecast of summer high growth native maximum demand

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			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	6	29	6	29	6	30	6	30	6	31	6	31	6	32	7	33	7	34	7
Aligator Creek (Louisa Creek)	132	N	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12
Alligator Creek	33	N	29	6	29	6	29	6	30	6	31	7	31	7	32	7	32	7	33	7	34	7
Biloela	66	CW	29	3	29	3	29	3	29	3	30	4	30	4	30	4	31	4	31	4	32	4
Blackwater	132	CW	23	9	23	9	35	13	45	17	45	17	45	17	46	17	46	17	46	17	46	17
Blackwater	66	CW	103	19	103	19	104	20	104	20	105	20	105	20	105	20	106	20	106	20	106	20
Bowen North	66	N	33	6	33	6	33	6	33	6	33	6	34	6	34	6	34	6	35	7	35	7
Bulli Creek (Waggamba)	132	B	20	6	20	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6
Cairns	22	FN	63	5	63	5	63	5	64	5	66	5	67	5	68	5	70	5	72	6	74	6
Cairns City	132	FN	51	0	51	0	51	0	52	0	52	0	53	0	54	0	54	0	55	0	56	0
Calliope River	132	G	51	4	51	4	51	4	51	4	51	4	51	4	51	4	51	4	52	4	52	4
Cardwell	22	R	6	1	6	1	6	1	6	2	6	2	6	2	6	2	6	2	6	2	6	2
Chinchilla	132	S	17	2	17	2	17	2	17	2	17	2	17	2	17	2	17	2	17	3	18	3
Clare South	66	R	74	19	85	22	85	22	86	22	87	22	88	22	89	23	89	23	90	23	91	23
Collinsville North	33	N	17	4	17	4	17	4	17	4	17	4	17	4	17	4	18	5	18	5	18	5
Columboola	132	S	74	9	74	9	78	9	78	9	79	9	80	9	81	9	81	9	82	10	83	10
Dan Gleeson	66	R	108	17	109	18	110	18	111	18	114	18	117	19	119	19	122	20	125	20	128	21
Dysart	66	CW	43	9	43	9	47	10	51	10	59	14	66	16	66	16	66	16	66	16	66	16
Edmonton	22	FN	47	4	47	4	48	4	48	4	50	4	51	4	52	4	54	4	55	4	57	5
Egans Hill	66	CW	56	4	57	4	57	4	58	4	59	4	60	4	61	4	62	4	63	4	65	4
El Arish	22	FN	6	0	6	0	6	0	6	0	6	0	6	0	7	0	7	0	7	0	7	0
Garbutt	66	R	96	8	97	8	98	8	99	8	101	8	104	9	106	9	108	9	111	9	113	9
Gin Gin	132	WB	178	17	178	17	178	17	180	17	187	18	194	19	196	19	200	19	203	20	206	20
Gladstone South	66	G	43	12	44	12	44	12	44	12	45	12	46	13	47	13	48	13	49	13	50	14
Ingham	66	R	18	1	18	1	18	1	18	1	18	1	19	1	19	1	19	1	19	1	19	1

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Innisfail	22	FN	28	4	28	4	28	4	28	4	29	4	29	4	30	4	30	4	31	4	31	4
Kamerunga	22	FN	62	3	63	3	64	3	65	3	67	3	68	3	70	3	72	3	74	3	76	3
Lilyvale (Barcaldine and Clermont)	132	CW	44	7	44	7	44	7	44	7	45	7	45	7	46	7	46	8	47	8	48	8
Lilyvale	66	CW	141	61	141	61	142	61	143	61	143	62	144	62	144	62	145	62	145	62	146	63
Mackay	33	N	97	8	96	8	97	8	97	8	99	8	100	8	102	8	103	8	105	8	107	8
Middle Ridge	110	SW	232	43	233	44	235	44	241	45	249	46	252	47	257	48	261	49	267	50	272	51
Middle Ridge (Postmans Ridge)	110	M	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3
Moranbah (Broadlea)	132	N	59	17	57	16	57	16	57	16	57	16	57	16	57	16	57	16	57	16	58	16
Moranbah	66 and 11	N	146	52	146	52	146	52	146	52	147	52	147	52	147	52	148	52	148	52	149	52
Moura	66	CW	65	22	66	22	66	22	66	22	66	22	66	22	66	22	67	22	67	22	67	22
Nebo	11	N	3	0	3	0	3	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0
Newlands	66	N	24	5	24	5	24	5	24	5	24	5	24	5	24	5	24	5	24	5	24	5
Oakey	110	SW	17	4	17	4	17	4	17	4	18	4	18	4	18	4	19	4	19	4	19	4
Pandoin	66	CW	44	7	44	7	44	7	45	8	46	8	47	8	47	8	48	8	49	8	50	8
Pioneer Valley	66	N	79	13	79	13	80	14	81	14	83	14	84	14	86	15	87	15	89	15	91	16
Proserpine	66	N	49	9	55	10	55	10	56	10	57	10	57	10	58	10	59	11	60	11	61	11
Rockhampton	66	CW	101	20	101	20	102	20	104	20	106	21	107	21	109	21	111	22	113	22	116	23
Ross (Kidston, Millchester and Georgetown)	132	R	50	10	50	10	53	11	53	11	54	11	54	11	55	11	55	11	56	11	56	11
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	37	7	40	6	40	6	40	7	40	7	40	7	41	7	41	7	41	7	42	7
Tarong	66	SW	47	11	47	11	47	11	48	11	48	11	48	11	49	11	50	11	50	11	51	11
Teebar Creek (Isis and Maryborough)	132	WB	130	43	134	44	138	46	140	46	142	47	143	47	145	48	147	49	150	49	152	50

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Townsville East	66	R	37	14	37	14	38	14	38	15	39	15	40	15	41	16	42	16	43	16	44	17
Townsville South	66	R	93	16	93	16	94	16	95	16	97	17	100	17	102	17	104	18	107	18	109	19
Tully	22	R	15	1	15	1	15	1	15	1	15	1	15	1	16	1	16	1	16	1	17	1
Turkinje (Craiglie and Lakeland)	132	FN	24	15	24	15	33	20	33	20	34	21	34	21	35	22	36	22	37	23	38	23
Turkinje	66	FN	68	4	68	4	61	4	61	4	63	4	64	4	65	4	66	4	68	4	69	4
Woolooga (Kilkivan)	132	WB	17	2	18	2	18	2	18	2	18	2	18	2	19	2	19	3	19	3	20	3
Woree (Cairns North)	132	FN	51	1	51	1	51	1	51	1	52	1	53	1	54	1	55	1	57	1	58	1
Yarwun (Boat Creek)	132	G	44	17	44	17	45	17	47	18	47	18	47	18	47	18	47	18	47	18	47	18
Hail Creek and King Creek	Various	N	37	7	37	7	37	7	37	7	37	7	37	7	37	7	37	7	37	7	37	7

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			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	6	28	6	28	6	29	6	29	6	29	6	30	6	30	6	30	6	31	6
Aligator Creek (Louisa Creek)	132	N	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12
Alligator Creek	33	N	29	6	29	6	29	6	29	6	29	6	29	6	30	6	30	7	31	7	31	7
Biloela	66	CW	29	3	28	3	28	3	28	3	29	3	29	3	29	3	29	3	29	3	29	3
Blackwater	132	CW	23	9	23	9	35	13	45	17	45	17	45	17	45	17	45	17	45	17	45	17
Blackwater	66	CW	102	19	102	19	104	20	104	20	104	20	104	20	104	20	104	20	104	20	104	20
Bowen North	66	N	32	6	32	6	32	6	32	6	33	6	33	6	33	6	33	6	33	6	34	6
Bulli Creek (Waggamba)	132	B	20	6	20	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6
Cairns	22	FN	62	5	62	5	62	5	62	5	63	5	63	5	64	5	65	5	67	5	67	5
Cairns City	132	FN	51	0	50	0	50	0	50	0	50	0	50	0	50	0	51	0	51	0	52	0
Calliope River	132	G	51	4	51	4	50	4	50	4	50	4	50	4	50	4	50	4	50	4	50	4
Cardwell	22	R	6	1	6	1	5	1	6	1	6	1	6	1	6	1	6	1	6	2	6	2
Chinchilla	132	S	16	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2	17	2	17	2
Clare South	66	R	74	19	84	22	84	21	84	22	84	22	84	22	85	22	85	22	86	22	86	22
Collinsville North	33	N	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4
Columboola	132	S	73	9	73	8	76	9	76	9	77	9	77	9	77	9	77	9	78	9	78	9
Dan Gleeson	66	R	108	17	108	17	108	17	109	18	110	18	112	18	113	18	115	19	117	19	119	19
Dysart	66	CW	43	9	43	9	47	10	51	10	58	14	66	16	66	16	66	16	66	16	66	16
Edmonton	22	FN	46	4	46	4	46	4	47	4	48	4	48	4	49	4	50	4	51	4	52	4
Egans Hill	66	CW	56	4	56	4	56	4	57	4	57	4	57	4	58	4	59	4	60	4	60	4
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	96	8	96	8	96	8	97	8	98	8	99	8	101	8	102	9	104	9	105	9
Gin Gin	132	WB	176	17	174	17	174	17	174	17	180	18	184	18	186	18	188	18	190	18	191	19
Gladstone South	66	G	42	12	43	12	43	12	43	12	43	12	44	12	44	12	45	12	45	12	46	13
Ingham	66	R	18	1	18	1	18	1	18	1	18	1	18	1	18	1	18	1	18	1	18	1

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Innisfail	22	FN	27	4	27	4	27	4	27	4	28	4	28	4	28	4	28	4	29	4	29	4
Kamerunga	22	FN	62	3	62	3	62	3	63	3	64	3	64	3	66	3	67	3	68	3	70	3
Lilyvale (Barcaldine and Clermont)	132	CW	44	7	43	7	43	7	43	7	44	7	44	7	44	7	44	7	44	7	45	7
Lilyvale	66	CW	141	61	141	60	141	61	142	61	142	61	142	61	142	61	143	61	143	61	143	61
Mackay	33	N	96	7	94	7	94	7	94	7	95	7	94	7	95	7	96	8	98	8	98	8
Middle Ridge	110	SW	229	43	229	43	228	43	233	43	239	45	239	45	241	45	245	46	249	46	251	47
Middle Ridge (Postmans Ridge)	110	M	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3
Moranbah (Broadlea)	132	N	59	17	57	16	57	16	57	16	57	16	57	16	57	16	57	16	57	16	57	16
Moranbah	66 and 11	N	145	52	145	52	145	52	145	52	146	52	146	52	146	52	146	52	146	52	147	52
Moura	66	CW	65	22	65	22	65	22	65	22	65	22	65	22	65	22	65	22	66	22	66	22
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	3	0	4	0	4	0	4	0
Newlands	66	N	24	5	24	5	24	5	24	5	24	5	24	5	24	5	24	5	24	5	24	5
Oakey	110	SW	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4	18	4
Pandoin	66	CW	44	7	44	7	44	7	44	7	45	7	45	7	45	8	46	8	46	8	47	8
Pioneer Valley	66	N	78	13	78	13	78	13	78	13	79	14	80	14	81	14	82	14	83	14	84	14
Proserpine	66	N	49	9	54	10	54	10	54	10	55	10	55	10	55	10	56	10	57	10	57	10
Rockhampton	66	CW	101	20	100	20	100	20	101	20	102	20	103	20	104	20	105	20	107	21	108	21
Ross (Kidston, Millchester and Georgetown)	132	R	50	10	50	10	53	11	53	11	53	11	53	11	53	11	53	11	53	11	54	11
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	37	7	39	6	39	6	39	7	39	7	39	7	39	7	40	7	40	7	40	7
Tarong	66	SW	47	10	47	10	46	10	46	10	47	11	47	11	47	11	47	11	48	11	48	11
Teebar Creek (Isis and Maryborough)	132	WB	129	42	132	44	135	45	136	45	137	45	137	45	138	45	139	46	141	46	142	47

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Townsville East	66	R	37	14	37	14	37	14	37	14	38	15	38	15	39	15	40	15	40	15	41	16
Townsville South	66	R	93	16	92	16	92	16	93	16	94	16	95	16	97	16	98	17	100	17	101	17
Tully	22	R	14	1	14	1	14	1	14	1	15	1	15	1	15	1	15	1	15	1	15	1
Turkinje (Craiglie and Lakeland)	132	FN	24	15	24	15	32	20	32	20	32	20	33	20	33	20	33	21	34	21	34	21
Turkinje	66	FN	67	4	67	4	59	4	60	4	60	4	61	4	61	4	62	4	63	4	64	4
Woolooga (Kilkivan)	132	WB	17	2	17	2	17	2	17	2	17	2	17	2	18	2	18	2	18	2	18	2
Woree (Cairns North)	132	FN	51	1	50	1	49	1	49	1	50	1	50	1	51	1	52	1	53	1	53	1
Yarwun (Boat Creek)	132	G	44	17	44	17	45	17	47	18	47	18	47	18	47	18	47	18	47	18	47	18
Hail Creek and King Creek	Various	N	37	7	37	7	37	7	37	7	37	7	37	7	37	7	37	7	37	7	37	7

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Alan Sherriff	132	R	28	6	28	6	27	6	27	6	28	6	28	6	28	6	28	6	28	6	28	6
Aligator Creek (Louisa Creek)	132	N	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12
Alligator Creek	33	N	28	6	28	6	28	6	28	6	28	6	28	6	28	6	28	6	28	6	28	6
Biloela	66	CW	28	3	28	3	28	3	28	3	28	3	27	3	27	3	27	3	27	3	27	3
Blackwater	132	CW	23	8	23	8	35	12	45	16	45	16	45	16	45	16	45	16	45	16	45	16
Blackwater	66	CW	102	19	102	19	103	19	103	19	103	19	103	19	102	19	103	19	103	19	102	19
Bowen North	66	N	32	5	32	5	32	5	32	5	32	5	32	5	32	5	32	5	32	5	32	5
Bulli Creek (Waggamba)	132	B	20	6	20	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6	21	6
Cairns	22	FN	61	5	60	5	59	5	59	5	60	5	60	5	60	5	60	5	61	5	61	5
Cairns City	132	FN	49	0	49	0	48	0	48	0	48	0	47	0	47	0	47	0	47	0	47	0
Calliope River	132	G	51	7	50	7	50	7	49	7	49	7	49	7	49	7	49	7	49	7	48	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	16	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2	16	2
Clare South	66	R	72	19	83	21	82	21	82	21	82	21	82	21	81	21	81	21	81	21	81	21
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	72	8	71	8	74	8	74	8	74	8	74	8	73	8	73	8	73	8	73	8
Dan Gleeson	66	R	108	17	108	16	107	16	106	16	107	16	108	16	108	16	109	17	110	17	110	17
Dysart	66	CW	43	9	43	9	47	10	51	11	58	14	65	15	65	15	65	15	65	15	65	15
Edmonton	22	FN	45	4	45	4	45	4	45	4	45	4	45	4	46	4	46	4	47	4	48	5
Egans Hill	66	CW	56	6	56	6	55	6	56	6	56	6	56	6	55	6	56	6	56	6	56	6
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	96	8	96	8	95	8	95	8	95	8	96	8	96	8	97	8	98	8	98	8
Gin Gin	132	WB	172	16	170	16	168	16	167	16	172	16	176	17	175	17	176	17	176	17	176	17
Gladstone South	66	G	41	10	42	10	41	10	41	10	41	10	41	10	41	10	42	10	42	10	42	10
Ingham	66	R	18	1	17	1	17	1	17	1	17	1	17	1	17	1	17	1	17	1	17	1

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Innisfail	22	FN	27	3	26	3	26	3	26	3	26	3	26	3	26	3	26	3	26	3	26	3
Kamerunga	22	FN	60	3	60	3	60	3	60	3	61	3	61	3	61	3	62	3	63	3	63	3
Lilyvale (Barcaldine and Clermont)	132	CW	43	7	43	7	42	7	42	6	42	7	42	6	42	6	42	6	42	6	42	6
Lilyvale	66	CW	140	60	140	60	140	60	140	60	140	60	140	60	140	60	140	60	140	60	140	60
Mackay	33	N	93	7	92	7	90	7	90	7	90	7	89	7	89	7	89	7	89	7	89	7
Middle Ridge	110	SW	224	43	223	43	220	43	223	43	227	44	227	44	226	44	228	44	229	44	229	44
Middle Ridge (Postmans Ridge)	110	M	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3	11	3
Moranbah (Broadlea)	132	N	59	16	57	16	57	16	57	16	57	16	57	16	57	16	57	16	57	16	57	16
Moranbah	66 and 11	N	145	51	145	51	145	51	145	51	145	51	145	51	145	51	145	51	145	51	145	51
Moura	66	CW	65	22	65	22	64	22	64	22	64	22	64	22	64	22	64	22	64	22	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	24	4	24	4	24	4	24	4	24	4	24	4	24	4	24	4	24	4	24	4
Oakey	110	SW	17	3	16	3	16	3	16	3	16	3	16	3	16	3	16	3	16	3	16	3
Pandoin	66	CW	44	7	43	7	43	7	43	7	43	7	43	7	43	7	43	7	44	7	44	7
Pioneer Valley	66	N	76	13	76	13	75	12	75	12	76	13	76	13	76	13	77	13	77	13	77	13
Proserpine	66	N	48	9	53	10	52	10	52	10	53	10	53	10	53	10	53	10	53	10	53	10
Rockhampton	66	CW	101	23	100	22	99	22	99	22	100	22	100	22	99	22	100	22	100	22	100	22
Ross (Kidston, Millchester and Georgetown)	132	R	50	9	49	9	52	9	51	9	51	9	51	9	51	9	51	9	51	9	51	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	36	7	39	7	38	7	38	7	38	7	38	7	38	7	38	7	38	7	38	7
Tarong	66	SW	46	11	46	11	45	11	45	10	45	10	45	10	45	10	45	10	45	10	45	10
Teebar Creek (Isis and Maryborough)	132	WB	126	39	129	40	131	41	131	41	131	41	131	41	131	41	131	41	132	41	132	41

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Townsville East	66	R	37	13	37	13	37	13	37	13	37	13	37	13	37	13	37	13	38	14	38	14
Townsville South	66	R	93	17	92	17	91	17	91	17	92	17	92	17	92	17	93	17	94	17	94	17
Tully	22	R	14	1	14	1	14	1	14	1	14	1	14	1	14	1	14	1	14	1	14	1
Turkinje (Craiglie and Lakeland)	132	FN	24	14	23	14	31	18	31	18	31	18	31	18	31	18	31	19	31	19	31	19
Turkinje	66	FN	66	4	65	4	57	3	57	3	58	3	58	3	58	3	58	3	59	3	59	3
Woolooga (Kilkivan)	132	WB	17	3	17	3	17	3	17	3	17	3	17	3	17	3	17	3	17	3	17	3
Woree (Cairns North)	132	FN	49	2	48	2	48	2	47	2	47	2	47	2	47	2	48	2	48	2	49	2
Yarwun (Boat Creek)	132	G	44	17	44	17	45	17	47	18	47	18	47	18	47	18	47	18	47	18	47	18
Hail Creek and King Creek	Various	N	37	6	37	6	37	6	37	6	37	6	37	6	37	6	37	6	37	6	37	6

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Alan Sherriff	132	R	20	2	20	2	20	2	21	2	21	2	22	2	22	2	23	2	24	2	24	2
Aligator Creek (Louisa Creek)	132	N	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	40	12
Alligator Creek	33	N	21	2	21	2	21	2	21	2	22	2	22	2	23	2	23	3	24	3	25	3
Biloela	66	CW	27	6	28	6	28	6	28	6	28	6	28	6	29	6	29	6	30	7	30	7
Blackwater	132	CW	24	10	25	10	35	14	45	18	45	18	45	18	45	18	45	18	46	18	46	18
Blackwater	66	CW	102	7	102	7	103	7	103	7	103	7	103	7	103	7	104	7	104	7	104	7
Bowen North	66	N	20	4	20	4	21	4	21	4	21	4	21	4	21	4	22	5	22	5	22	5
Bulli Creek (Waggamba)	132	B	24	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8
Cairns	22	FN	39	5	39	5	39	5	39	5	40	5	40	5	41	5	42	5	44	5	45	5
Cairns City	132	FN	34	0	34	0	35	0	35	0	35	0	36	0	36	0	37	0	38	0	38	0
Calliope River	132	G	48	4	48	4	48	4	48	4	49	4	49	4	50	4	50	4	51	5	51	5
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	15	1	16	1	16	1	16	1	16	1	16	1	16	1	17	1	17	1	17	1
Clare South	66	R	56	5	56	5	56	5	57	5	57	5	58	5	58	5	59	5	59	5	60	5
Collinsville North	33	N	16	5	16	5	16	5	16	5	16	5	16	5	17	5	17	5	17	5	17	5
Columboola	132	S	75	16	77	17	77	17	78	17	79	17	80	18	81	18	81	18	83	18	84	18
Dan Gleeson	66	R	66	7	67	7	67	7	69	7	70	8	73	8	75	8	77	8	79	8	82	9
Dysart	66	CW	42	8	46	9	49	10	56	11	62	13	62	13	62	13	62	13	62	13	63	13
Edmonton	22	FN	32	6	33	6	34	6	35	7	36	7	37	7	38	7	40	8	41	8	43	8
Egans Hill	66	CW	53	4	55	4	56	4	57	4	58	4	59	5	60	5	61	5	63	5	65	5
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	72	6	72	6	74	6	75	7	77	7	79	7	81	7	83	7	86	7	89	8
Gin Gin	132	WB	158	9	158	9	160	9	165	10	171	10	174	10	178	11	181	11	185	11	190	11
Gladstone South	66	G	34	8	34	8	34	8	35	8	35	8	36	8	37	8	37	9	38	9	39	9
Ingham	66	R	15	2	15	2	15	2	15	2	15	2	15	2	15	2	16	2	16	2	16	2

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Innisfail	22	FN	21	1	21	1	21	1	21	1	22	1	22	2	22	2	23	2	23	2	24	2
Kamerunga	22	FN	38	5	38	5	38	6	39	6	39	6	41	6	42	6	43	6	45	7	47	7
Lilyvale (Barcaldine and Clermont)	132	CW	37	14	37	14	37	14	38	14	38	14	39	14	39	14	39	15	40	15	41	15
Lilyvale	66	CW	136	52	137	52	137	52	137	52	138	52	138	52	139	53	139	53	140	53	140	53
Mackay	33	N	65	9	65	9	65	9	66	9	67	9	68	9	69	9	70	9	72	10	74	10
Middle Ridge	110	SW	293	47	296	48	302	48	308	49	313	50	318	51	324	52	330	53	338	54	347	56
Middle Ridge (Postmans Ridge)	110	M	13	3	13	3	13	3	13	3	13	3	13	3	13	3	13	3	14	4	14	4
Moranbah (Broadlea)	132	N	59	14	59	14	59	14	59	14	59	14	59	14	59	14	59	14	59	14	59	14
Moranbah	66 and 11	N	140	48	140	48	141	48	141	48	141	48	142	48	142	48	142	48	143	48	144	48
Moura	66	CW	64	20	64	20	64	20	64	20	65	20	65	21	65	21	65	21	66	21	66	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	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3	26	3	26	3
Oakey	110	SW	18	3	18	3	18	3	18	3	19	3	19	3	19	3	19	4	20	4	20	4
Pandoin	66	CW	40	2	41	2	42	2	43	2	44	2	44	2	45	2	46	2	48	2	49	2
Pioneer Valley	66	N	54	2	54	2	55	2	55	3	56	3	58	3	59	3	60	3	62	3	64	3
Proserpine	66	N	44	4	49	5	49	5	50	5	51	5	52	5	53	5	54	5	55	5	56	5
Rockhampton	66	CW	96	10	98	10	101	10	103	10	104	11	106	11	109	11	111	11	114	11	117	12
Ross (Kidston, Millchester and Georgetown)	132	R	43	17	45	18	45	18	46	18	46	18	46	18	47	18	47	18	48	19	48	19
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	41	7	42	7	42	7	42	7	43	7	43	7	44	7	44	7	45	8	45	8
Tarong	66	SW	48	9	49	9	49	10	49	10	50	10	50	10	51	10	52	10	53	10	53	10
Teebar Creek (Isis and Maryborough)	132	WB	147	36	152	37	155	38	157	38	159	39	161	39	164	40	166	41	170	42	173	42

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Townsville East	66	R	27	9	27	9	27	9	28	9	28	9	29	10	30	10	31	10	32	11	33	11
Townsville South	66	R	65	6	66	6	67	7	68	7	69	7	72	7	74	7	75	7	78	8	80	8
Tully	22	R	11	1	11	1	11	1	12	1	12	1	12	1	12	1	13	1	13	1	13	1
Turkinje (Craiglie and Lakeland)	132	FN	20	19	27	26	27	26	28	26	28	27	28	27	29	28	30	29	31	29	31	30
Turkinje	66	FN	61	3	55	3	56	3	57	3	58	3	59	3	60	3	61	3	63	3	65	3
Woolooga (Kilkivan)	132	WB	17	2	17	2	17	2	17	2	17	3	17	3	18	3	18	3	18	3	19	3
Woree (Cairns North)	132	FN	35	6	35	6	36	6	36	7	37	7	38	7	39	7	40	7	41	7	43	8
Yarwun (Boat Creek)	132	G	41	16	41	16	43	16	44	17	44	17	44	17	44	17	44	17	44	17	44	17
Hail Creek and King Creek	Various	N	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Alan Sherriff	132	R	20	2	20	2	20	2	20	2	20	2	21	2	21	2	21	2	22	2	22	2
Aligator Creek (Louisa Creek)	132	N	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12	39	12
Alligator Creek	33	N	21	2	21	2	21	2	21	2	21	2	21	2	21	2	22	2	22	2	22	2
Biloela	66	CW	27	6	27	6	27	6	27	6	27	6	27	6	28	6	28	6	28	6	28	6
Blackwater	132	CW	24	10	25	10	35	14	45	18	45	18	45	18	45	18	45	18	45	18	45	18
Blackwater	66	CW	101	7	102	7	102	7	102	7	102	7	102	7	102	7	102	7	103	7	103	7
Bowen North	66	N	20	4	20	4	20	4	20	4	20	4	21	4	21	4	21	4	21	4	21	4
Bulli Creek (Waggamba)	132	B	24	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8
Cairns	22	FN	38	4	38	4	38	4	38	4	38	4	38	4	38	4	39	5	40	5	41	5
Cairns City	132	FN	34	0	34	0	34	0	33	0	33	0	34	0	34	0	34	0	35	0	35	0
Calliope River	132	G	47	4	47	4	47	4	47	4	48	4	48	4	48	4	48	4	49	4	49	4
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	15	1	15	1	15	1	15	1	15	1	16	1	16	1	16	1	16	1	16	1
Clare South	66	R	56	5	56	5	55	5	55	5	55	5	56	5	56	5	56	5	56	5	57	5
Collinsville North	33	N	16	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5
Columboola	132	S	74	16	76	17	76	17	76	17	76	17	76	17	77	17	77	17	78	17	78	17
Dan Gleeson	66	R	66	7	66	7	66	7	67	7	67	7	69	7	71	8	72	8	74	8	75	8
Dysart	66	CW	42	8	46	9	49	9	55	11	62	13	62	13	62	13	62	13	62	13	62	13
Edmonton	22	FN	32	6	32	6	33	6	33	6	34	6	35	7	36	7	37	7	38	7	39	7
Egans Hill	66	CW	53	4	54	4	55	4	55	4	56	4	56	4	57	4	58	4	59	5	60	5
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	72	6	72	6	72	6	73	6	74	6	76	7	77	7	78	7	80	7	82	7
Gin Gin	132	WB	156	9	156	9	155	9	159	9	164	10	166	10	167	10	170	10	172	10	174	10
Gladstone South	66	G	33	8	33	8	33	8	33	8	33	8	34	8	34	8	35	8	35	8	35	8
Ingham	66	R	15	2	15	2	15	2	14	2	14	2	15	2	15	2	15	2	15	2	15	2

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Innisfail	22	FN	20	1	20	1	20	1	20	1	20	1	21	1	21	1	21	1	22	1	22	2
Kamerunga	22	FN	37	5	37	5	37	5	37	5	37	5	38	6	39	6	40	6	41	6	43	6
Lilyvale (Barcaldine and Clermont)	132	CW	37	14	37	13	37	13	37	13	37	14	37	14	37	14	37	14	38	14	38	14
Lilyvale	66	CW	136	51	136	52	136	52	136	52	136	52	137	52	137	52	137	52	137	52	138	52
Mackay	33	N	64	9	64	9	63	8	63	8	63	8	64	9	65	9	66	9	67	9	67	9
Middle Ridge	110	SW	290	47	290	47	293	47	296	48	297	48	301	48	304	49	308	49	312	50	316	51
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	59	14	59	14	59	14	59	14	59	14	59	14	59	14	59	14	59	14	59	14
Moranbah	66 and 11	N	140	48	140	48	140	48	140	48	140	48	141	48	141	48	141	48	141	48	142	48
Moura	66	CW	64	20	64	20	64	20	64	20	64	20	64	20	64	20	64	20	64	20	64	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	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3
Oakey	110	SW	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3
Pandoin	66	CW	40	2	41	2	42	2	42	2	42	2	43	2	43	2	44	2	44	2	45	2
Pioneer Valley	66	N	53	2	53	2	53	2	53	2	54	2	55	3	56	3	57	3	58	3	58	3
Proserpine	66	N	44	4	48	5	48	5	48	5	49	5	49	5	50	5	50	5	51	5	52	5
Rockhampton	66	CW	96	10	98	10	99	10	100	10	100	10	102	10	103	10	105	11	106	11	108	11
Ross (Kidston, Millchester and Georgetown)	132	R	43	17	45	17	45	17	45	17	45	17	45	17	45	17	45	18	46	18	46	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	40	7	41	7	41	7	41	7	41	7	42	7	42	7	42	7	43	7	43	7
Tarong	66	SW	48	9	48	9	48	9	48	9	48	9	48	9	49	10	49	10	49	10	50	10
Teebar Creek (Isis and Maryborough)	132	WB	145	36	149	37	152	37	152	37	152	37	154	38	155	38	157	38	159	39	160	39

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Townsville East	66	R	27	9	27	9	27	9	27	9	27	9	28	9	28	9	29	10	30	10	30	10
Townsville South	66	R	65	6	65	6	65	6	66	6	67	7	68	7	70	7	71	7	72	7	74	7
Tully	22	R	11	1	11	1	11	1	11	1	11	1	11	1	12	1	12	1	12	1	12	1
Turkinje (Craiglie and Lakeland)	132	FN	19	19	26	25	26	25	26	25	27	25	27	26	27	26	28	27	28	27	29	27
Turkinje	66	FN	60	3	54	3	54	3	55	3	55	3	56	3	57	3	58	3	59	3	59	3
Woolooga (Kilkivan)	132	WB	16	2	16	2	16	2	16	2	16	2	17	2	17	2	17	2	17	2	17	3
Woree (Cairns North)	132	FN	35	6	34	6	34	6	35	6	35	6	36	6	36	7	37	7	38	7	39	7
Yarwun (Boat Creek)	132	G	41	16	41	16	42	16	44	17	44	17	44	17	44	17	44	17	44	17	44	17
Hail Creek and King Creek	Various	N	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Alan Sherriff	132	R	19	2	19	2	19	2	19	2	19	2	19	2	19	2	20	2	20	2	20	2
Aligator Creek (Louisa Creek)	132	N	39	11	39	11	39	11	39	11	39	11	39	11	39	11	39	11	39	11	39	11
Alligator Creek	33	N	20	2	20	2	20	2	20	2	20	2	20	2	20	2	20	2	20	2	20	2
Biloela	66	CW	27	6	27	6	26	6	26	6	26	6	26	6	26	6	26	6	26	6	26	6
Blackwater	132	CW	24	10	25	10	35	14	45	18	45	18	45	18	45	18	45	18	45	18	45	18
Blackwater	66	CW	101	7	102	7	101	7	101	7	101	7	101	7	101	7	101	7	101	7	101	7
Bowen North	66	N	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5
Bulli Creek (Waggamba)	132	B	24	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8	25	8
Cairns	22	FN	37	5	37	5	36	5	36	5	36	5	36	5	36	5	36	5	36	5	37	5
Cairns City	132	FN	33	0	32	0	32	0	32	0	32	0	32	0	32	0	32	0	32	0	32	0
Calliope River	132	G	47	4	47	4	47	4	47	4	47	4	47	4	47	4	47	4	47	4	47	4
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	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1
Clare South	66	R	55	5	54	5	54	5	54	5	54	5	54	5	53	5	53	5	53	5	53	5
Collinsville North	33	N	16	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4	15	4
Columboola	132	S	73	17	74	17	73	17	73	17	73	17	73	17	73	17	73	17	72	17	72	17
Dan Gleeson	66	R	66	7	65	7	65	7	65	7	66	7	67	7	67	7	68	7	69	7	70	7
Dysart	66	CW	42	8	46	9	49	10	55	11	62	12	62	12	62	12	62	12	62	12	62	12
Edmonton	22	FN	31	6	31	6	31	6	32	6	32	6	33	7	33	7	34	7	35	7	35	7
Egans Hill	66	CW	53	4	54	4	54	4	54	4	54	4	55	4	55	4	55	4	55	4	56	4
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	72	6	71	6	71	6	71	6	72	6	73	6	73	6	74	6	75	6	76	6
Gin Gin	132	WB	153	9	151	9	149	9	153	9	156	9	157	9	157	9	157	10	158	10	159	10
Gladstone South	66	G	32	7	32	7	32	7	32	7	32	7	32	7	32	7	32	7	32	7	32	7
Ingham	66	R	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Innisfail	22	FN	20	1	20	1	19	1	19	1	19	1	20	1	19	1	20	1	20	1	20	1
Kamerunga	22	FN	36	5	36	5	36	5	36	5	36	5	36	5	36	5	37	5	38	5	39	5
Lilyvale (Barcaldine and Clermont)	132	CW	36	13	36	13	36	13	35	13	35	13	35	13	35	13	35	13	35	13	35	13
Lilyvale	66	CW	135	52	135	52	135	52	135	52	135	52	135	52	135	52	135	52	135	52	135	52
Mackay	33	N	63	8	61	8	61	8	60	8	60	8	60	8	60	8	60	8	61	8	61	8
Middle Ridge	110	SW	283	46	280	45	281	45	283	46	282	46	283	46	283	46	284	46	285	46	287	46
Middle Ridge (Postmans Ridge)	110	M	13	3	13	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3
Moranbah (Broadlea)	132	N	59	14	59	14	59	14	59	14	59	14	59	14	58	14	58	14	58	14	58	14
Moranbah	66 and 11	N	140	45	139	45	139	45	139	45	139	45	140	45	139	45	140	45	140	45	140	45
Moura	66	CW	63	20	63	20	63	20	63	20	63	20	63	20	63	20	63	20	63	20	63	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	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3
Oakey	110	SW	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4	17	4
Pandoin	66	CW	40	2	40	2	41	2	41	2	41	2	41	2	41	2	42	2	42	2	42	2
Pioneer Valley	66	N	52	3	52	2	51	2	51	2	51	2	52	3	52	3	53	3	53	3	54	3
Proserpine	66	N	42	4	47	4	46	4	46	4	46	4	47	4	47	4	47	4	47	4	47	4
Rockhampton	66	CW	96	15	97	15	98	16	98	16	98	16	98	16	99	16	99	16	100	16	101	16
Ross (Kidston, Millchester and Georgetown)	132	R	42	17	44	17	44	17	43	17	43	17	43	17	43	17	43	17	43	17	43	17
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	40	7	40	7	40	7	40	7	40	7	40	7	41	7	41	7	41	7
Tarong	66	SW	47	10	47	9	46	9	46	9	46	9	46	9	46	9	46	9	46	9	46	9
Teebar Creek (Isis and Maryborough)	132	WB	143	35	145	35	147	36	147	36	146	36	147	36	147	36	147	36	148	36	149	36

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Townsville East	66	R	27	8	26	8	26	8	26	8	26	8	27	8	27	8	27	8	28	8	28	8
Townsville South	66	R	65	7	64	7	64	7	64	7	65	7	66	7	66	7	67	7	68	7	69	7
Tully	22	R	11	1	11	1	11	1	11	1	11	1	11	1	11	1	11	1	11	1	11	1
Turkinje (Craiglie and Lakeland)	132	FN	19	16	26	21	25	21	25	21	25	21	25	21	25	21	25	21	26	21	26	22
Turkinje	66	FN	59	3	53	3	52	3	53	3	53	3	53	3	53	3	54	3	54	3	54	3
Woolooga (Kilkivan)	132	WB	16	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5	16	5
Woree (Cairns North)	132	FN	34	6	33	6	33	6	33	6	33	6	33	6	34	6	34	6	35	6	35	6
Yarwun (Boat Creek)	132	G	41	15	41	15	42	16	43	16	43	16	43	16	43	16	43	16	43	16	43	16
Hail Creek and King Creek	Various	N	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	70	14	70	14	73	15	73	15	74	15	75	15	75	15	76	15	77	16	77	16
Abermain	33	M	103	16	103	16	105	16	105	16	107	16	109	17	111	17	113	17	115	18	116	18
Algester	33	M	74	17	73	17	74	17	74	17	75	17	77	17	78	18	80	18	82	19	84	19
Ashgrove West	110	M	118	20	118	20	118	20	120	20	121	20	122	20	123	21	124	21	126	21	126	21
Ashgrove West	33	M	79	11	78	11	82	11	82	11	83	11	84	12	86	12	88	12	91	13	92	13
Belmont	110	M	388	61	392	61	400	63	412	65	415	65	421	66	427	67	433	68	440	69	442	69
Blackstone (Raceview)	110	M	108	9	109	9	112	9	113	9	115	9	118	10	121	10	123	10	126	10	127	10
Bundamba	110	M	36	15	35	15	36	15	35	15	36	15	36	16	36	16	37	16	37	16	37	16
Goodna	33	M	138	4	150	4	152	4	154	4	157	4	162	4	166	4	171	4	176	5	179	5
Loganlea	110	M	450	142	470	148	474	149	476	150	482	152	489	154	496	156	504	159	514	162	519	163
Loganlea	33	M	100	6	99	6	100	6	100	6	101	6	103	6	104	6	106	6	108	6	108	6
Middle Ridge (Postmans Ridge and Gatton)	110	M	115	7	114	7	115	7	115	7	115	7	116	7	117	7	118	7	118	7	118	7
Molendinar	110	GC	545	5	551	5	555	5	559	5	568	17	579	18	589	5	602	5	616	5	622	5
Mudgeeraba	110	GC	369	76	366	76	369	76	369	76	373	77	379	78	385	79	392	81	400	82	403	83
Mudgeeraba	33	GC	24	5	24	5	24	5	24	5	24	5	25	5	25	5	26	5	26	5	27	6
Murarrie	110	M	564	76	599	81	644	87	676	91	679	91	686	92	692	93	700	94	710	95	713	96
Palmwoods	110 and 132	M	432	127	432	127	441	130	445	131	451	133	462	136	472	139	488	144	502	148	509	150
Redbank Plains	11	M	35	3	36	3	37	3	37	3	39	3	41	4	42	4	44	4	46	4	47	4
Richlands	33	M	130	27	142	30	144	30	143	30	144	30	146	31	147	31	149	31	151	32	151	32
Rocklea	110	M	157	44	156	43	156	44	155	43	156	44	158	44	160	45	163	45	165	46	171	47

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2232/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Runcorn	33	M	69	8	68	8	69	8	70	8	72	9	74	9	76	9	77	9	79	10	80	10
South Pine	110	M	1030	100	1033	100	1040	101	1021	99	1056	102	1065	103	1083	105	1099	106	1121	109	1171	114
Sumner	110	M	33	8	33	8	33	8	32	8	32	8	33	8	33	8	34	8	34	8	34	8
Tennyson	33	M	188	16	198	16	200	17	200	17	202	17	205	17	209	17	215	18	220	18	223	18
Wecker Road	33	M	138	24	136	23	137	23	138	23	140	24	142	24	144	25	147	25	150	26	151	26
Woolooga (Gympie)	132	M	231	0	232	0	234	0	234	0	236	0	240	0	244	0	249	0	254	0	256	0

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	69	14	68	14	70	14	70	14	70	14	70	14	70	14	70	14	71	14	70	14
Abermain	33	M	102	16	101	16	101	16	101	15	102	16	103	16	103	16	105	16	106	16	106	16
Algester	33	M	73	16	72	16	71	16	71	16	71	16	71	16	72	16	73	16	74	17	75	17
Ashgrove West	110	M	116	19	115	19	114	19	115	19	114	19	114	19	114	19	114	19	114	19	113	19
Ashgrove West	33	M	78	11	77	11	79	11	78	11	78	11	79	11	80	11	81	11	83	11	84	12
Belmont	110	M	382	60	383	60	386	61	393	62	392	61	393	62	394	62	396	62	399	63	398	62
Blackstone (Raceview)	110	M	106	9	106	9	108	9	108	9	109	9	110	9	111	9	113	9	114	9	114	9
Bundamba	110	M	35	15	34	15	34	15	34	15	33	14	33	14	33	14	33	14	33	14	33	14
Goodna	33	M	136	4	147	4	147	4	147	4	148	4	151	4	153	4	157	4	160	4	161	4
Loganlea	110	M	443	139	459	145	457	144	454	143	455	143	456	144	458	144	461	145	467	147	467	147
Loganlea	33	M	98	6	96	5	96	5	95	5	95	5	95	5	95	5	96	5	97	6	97	6
Middle Ridge (Postmans Ridge and Gatton)	110	M	114	7	112	7	112	7	111	7	111	7	111	7	111	7	111	7	111	7	110	7
Molendinar	110	GC	536	5	538	5	535	5	532	4	534	16	538	16	542	16	549	5	556	5	557	5
Mudgeeraba	110	GC	363	75	358	74	356	73	352	73	352	73	354	73	356	73	359	74	363	75	363	75
Mudgeeraba	33	GC	23	5	23	5	23	5	23	5	23	5	23	5	23	5	23	5	24	5	24	5
Murarrie	110	M	556	75	588	79	627	84	652	88	650	87	651	87	651	88	655	88	660	89	659	89
Palmwoods	110 & 132	M	425	125	422	124	425	125	423	124	424	125	429	126	433	127	445	131	453	133	456	134
Redbank Plains	11	M	34	3	35	3	36	3	36	3	37	3	38	3	39	3	40	4	41	4	42	4
Richlands	33	M	128	27	139	29	139	29	137	29	136	29	136	29	136	29	137	29	138	29	137	29
Rocklea	110	M	154	43	152	43	150	42	148	41	147	41	147	41	148	41	149	42	150	42	154	43

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Runcorn	33	M	68	8	67	8	66	8	66	8	68	8	70	8	70	9	71	9	72	9	72	9
South Pine	110	M	1015	98	1011	98	1005	97	1018	99	1036	100	1040	101	1045	101	1055	102	1066	103	1067	103
Sumner	110	M	33	8	32	7	31	7	31	7	30	7	30	7	30	7	31	7	31	7	31	7
Tennyson	33	M	185	15	194	16	193	16	190	16	190	16	192	16	193	16	196	16	200	17	201	17
Wecker Road	33	M	136	23	133	23	132	22	131	22	132	22	132	22	132	23	134	23	135	23	135	23
Woolooga (Gympie)	132	M	228	0	227	0	226	0	223	0	223	0	224	0	225	0	228	0	230	0	230	0

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	68	14	67	13	69	14	68	14	67	13	66	13	66	13	65	13	65	13	63	13
Abermain	33	M	101	15	100	15	99	15	98	15	98	15	98	15	98	15	98	15	97	15	96	15
Algester	33	M	72	16	70	16	69	16	68	15	67	15	67	15	67	15	67	15	67	15	66	15
Ashgrove West	110	M	115	19	113	19	111	19	111	19	109	18	108	18	107	18	106	18	104	17	102	17
Ashgrove West	33	M	77	11	75	10	77	11	76	10	75	10	75	10	75	10	75	10	76	10	75	10
Belmont	110	M	377	59	376	59	375	59	379	60	375	59	372	58	369	58	366	57	363	57	356	56
Blackstone (Raceview)	110	M	105	9	105	9	105	9	104	8	104	8	104	8	104	8	104	8	104	8	102	8
Bundamba	110	M	35	15	34	15	33	14	32	14	32	14	31	14	31	13	31	13	30	13	29	13
Goodna	33	M	134	3	144	4	143	4	142	4	142	4	143	4	144	4	145	4	145	4	144	4
Loganlea	110	M	438	138	451	142	445	140	438	138	435	137	432	136	429	135	426	134	425	134	419	132
Loganlea	33	M	97	6	95	5	93	5	91	5	90	5	90	5	89	5	88	5	88	5	86	5
Middle Ridge (Postmans Ridge and Gatton)	110	M	113	7	111	7	110	7	108	6	107	6	107	6	106	6	105	6	104	6	102	6
Molendinar	110	GC	530	4	528	4	519	4	512	4	510	15	508	15	506	15	505	15	503	15	496	4
Mudgeeraba	110	GC	360	74	352	73	347	72	340	70	337	70	335	69	333	69	332	69	331	68	326	67
Mudgeeraba	33	GC	23	5	23	5	22	5	22	5	22	4	22	4	22	4	22	4	22	4	21	4
Murarrie	110	M	551	74	579	78	613	82	635	85	629	85	625	84	621	83	618	83	616	83	609	82
Palmwoods	110 & 132	M	420	123	414	122	413	121	407	120	405	119	405	119	404	119	409	120	411	121	406	119
Redbank Plains	11	M	34	3	35	3	35	3	34	3	35	3	36	3	36	3	37	3	37	3	37	3
Richlands	33	M	126	27	137	29	135	29	133	28	131	28	130	27	128	27	127	27	126	27	123	26
Rocklea	110	M	153	43	149	42	146	41	143	40	141	40	139	39	138	39	137	39	136	38	138	39

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

Connection point	Voltage (kV)	Zone	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Runcorn	33	M	67	8	65	8	64	8	64	8	65	8	66	8	66	8	66	8	66	8	65	8
South Pine	110	M	1004	97	994	96	979	95	911	88	916	89	895	87	884	86	868	84	857	83	866	84
Sumner	110	M	32	8	31	7	30	7	29	7	29	7	29	7	28	7	28	7	28	7	27	6
Tennyson	33	M	183	15	190	16	187	16	184	15	182	15	181	15	181	15	181	15	181	15	180	15
Wecker Road	33	M	134	23	131	22	128	22	126	21	126	21	125	21	124	21	123	21	122	21	121	21
Woolooga (Gympie)	132	M	226	0	223	0	220	0	216	0	214	0	213	0	211	0	211	0	210	0	207	0

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	58	14	62	15	63	15	63	15	64	15	65	15	66	15	67	16	67	16	68	16
Abermain	33	M	81	14	82	14	84	14	86	14	88	15	90	15	92	16	95	16	96	16	98	17
Algester	33	M	64	10	65	10	66	10	67	10	69	10	71	11	72	11	75	11	76	12	78	12
Ashgrove West	110	M	89	3	89	3	90	3	92	3	93	3	95	3	97	3	99	3	104	3	101	3
Ashgrove West	33	M	65	2	68	2	69	2	70	2	71	2	73	2	75	2	78	2	80	2	82	2
Belmont	110	M	298	17	310	17	321	18	325	18	331	19	338	19	344	19	351	20	361	20	361	20
Blackstone (Raceview)	110	M	85	14	88	15	90	15	92	15	95	16	98	16	101	17	104	17	106	18	108	18
Bundamba	110	M	30	10	30	10	31	10	31	11	32	11	32	11	33	11	33	11	33	11	33	11
Goodna	33	M	113	10	122	11	125	11	128	11	133	12	138	12	142	13	147	13	150	13	155	14
Loganlea	110	M	381	72	408	77	415	79	423	80	432	82	442	84	450	85	460	87	468	89	478	90
Loganlea	33	M	87	14	88	14	90	15	91	15	93	15	95	15	97	16	98	16	100	16	102	16
Middle Ridge (Postmans Ridge and Gatton)	110	M	133	13	134	13	135	13	135	13	137	14	138	14	140	14	141	14	141	14	142	14
Molendinar	110	GC	482	0	501	0	509	0	519	0	534	0	548	0	562	0	578	0	590	0	605	0
Mudgeeraba	110	GC	239	41	243	42	247	42	249	43	255	44	260	45	266	46	272	47	276	47	282	48
Mudgeeraba	33	GC	22	3	22	3	23	3	23	3	24	3	24	3	25	3	26	4	26	4	27	4
Murarrie	110	M	473	64	498	67	533	72	563	76	570	77	577	78	584	79	592	80	600	81	605	82
Palmwoods	110 & 132	M	393	113	403	116	411	118	416	120	427	123	438	126	449	129	462	133	474	136	484	139
Redbank Plains	11	M	30	0	31	0	32	1	34	1	35	1	37	1	39	1	41	1	42	1	44	1
Richlands	33	M	115	13	117	13	119	13	120	13	123	14	125	14	127	14	129	14	130	15	132	15
Rocklea	110	M	117	26	119	27	120	27	121	27	123	27	125	28	128	28	130	29	151	33	138	30

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Runcorn	33	M	57	3	58	3	59	3	60	3	63	3	65	3	67	3	68	3	70	3	71	3
South Pine	110	M	880	92	898	94	892	93	926	97	953	100	969	101	990	103	1008	105	1032	108	1078	113
Sumner	110	M	25	4	25	4	25	4	25	4	26	4	27	4	27	4	28	5	29	5	29	5
Tennyson	33	M	162	12	167	13	169	13	171	13	175	13	180	14	185	14	190	15	195	15	201	15
Wecker Road	33	M	108	3	109	3	111	3	113	3	116	4	119	4	122	4	125	4	129	4	131	4
Woolooga (Gympie)	132	M	255	0	258	0	260	0	261	0	265	0	269	0	272	0	277	0	280	0	284	0

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	57	13	60	14	60	14	60	14	60	14	60	14	61	14	61	14	61	14	62	14
Abermain	33	M	79	13	80	13	80	14	81	14	82	14	84	14	85	14	87	15	88	15	89	15
Algester	33	M	62	9	62	9	62	9	63	9	63	10	64	10	66	10	67	10	68	10	70	11
Ashgrove West	110	M	87	3	86	3	85	3	86	3	87	3	88	3	89	3	90	3	94	3	91	3
Ashgrove West	33	M	63	2	66	2	66	2	66	2	67	2	68	2	69	2	71	2	72	2	75	2
Belmont	110	M	290	16	298	17	305	17	305	17	307	17	310	17	314	18	318	18	326	18	324	18
Blackstone (Raceview)	110	M	83	14	85	14	86	14	87	14	88	15	90	15	92	15	94	16	95	16	97	16
Bundamba	110	M	29	10	29	10	29	10	29	10	29	10	29	10	30	10	30	10	30	10	30	10
Goodna	33	M	110	10	117	10	119	11	120	11	123	11	126	11	130	11	133	12	136	12	139	12
Loganlea	110	M	370	70	392	74	394	75	397	75	400	76	406	77	411	78	417	79	422	80	430	81
Loganlea	33	M	85	14	85	14	85	14	85	14	85	14	86	14	87	14	88	14	89	14	90	15
Middle Ridge (Postmans Ridge and Gatton)	110	M	130	13	131	13	130	13	130	13	131	13	131	13	132	13	132	13	132	13	132	13
Molendinar	110	GC	468	0	480	0	482	0	485	0	493	0	501	0	510	0	521	0	529	0	540	0
Mudgeeraba	110	GC	233	40	234	40	234	40	234	40	236	41	240	41	243	42	247	42	250	43	254	44
Mudgeeraba	33	GC	21	3	22	3	22	3	22	3	22	3	22	3	23	3	23	3	24	3	24	3
Murarrie	110	M	462	62	483	65	512	69	538	72	539	73	542	73	546	73	551	74	557	75	560	75
Palmwoods	110 & 132	M	381	109	387	111	388	111	389	112	394	113	399	115	408	117	416	120	426	122	433	124
Redbank Plains	11	M	29	0	30	0	31	0	32	1	33	1	34	1	36	1	37	1	38	1	39	1
Richlands	33	M	112	12	113	13	114	13	113	13	114	13	115	13	116	13	118	13	118	13	119	13
Rocklea	110	M	114	26	115	26	114	26	113	25	114	26	115	26	116	26	118	26	138	30	125	28

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Runcorn	33	M	56	3	56	3	56	3	56	3	58	3	60	3	61	3	62	3	63	3	64	3
South Pine	110	M	858	90	865	90	882	92	898	94	907	95	918	96	929	97	944	99	960	100	968	101
Sumner	110	M	24	4	24	4	24	4	24	4	24	4	24	4	25	4	25	4	26	4	26	4
Tennyson	33	M	158	12	160	12	161	12	161	12	162	12	165	13	168	13	173	13	176	14	180	14
Wecker Road	33	M	105	3	105	3	105	3	105	3	107	3	109	3	110	3	113	3	116	4	117	4
Woolooga (Gympie)	132	M	249	0	249	0	247	0	246	0	246	0	248	0	250	0	253	0	254	0	256	0

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	56	13	58	14	58	14	57	13	57	13	57	13	56	13	56	13	55	13	55	13
Abermain	33	M	77	13	78	13	78	13	78	13	78	13	79	13	79	13	80	13	80	13	80	13
Algester	33	M	61	9	60	9	60	9	59	9	59	9	60	9	60	9	60	9	60	9	61	9
Ashgrove West	110	M	85	3	84	3	82	2	83	3	82	2	82	2	81	2	81	2	85	3	81	2
Ashgrove West	33	M	62	2	64	2	64	2	63	2	63	2	63	2	64	2	65	2	65	2	66	2
Belmont	110	M	284	16	289	16	293	17	291	16	290	16	289	16	288	16	287	16	291	16	286	16
Blackstone (Raceview)	110	M	81	13	82	14	83	14	83	14	83	14	84	14	84	14	85	14	85	14	85	14
Bundamba	110	M	28	10	28	10	28	9	28	9	27	9	27	9	27	9	27	9	26	9	26	9
Goodna	33	M	108	10	114	10	114	10	115	10	116	10	118	10	119	11	120	11	121	11	122	11
Loganlea	110	M	363	69	382	72	380	72	379	72	378	72	378	72	377	71	378	72	377	71	379	72
Loganlea	33	M	83	13	82	13	81	13	80	13	80	13	80	13	79	13	79	13	79	13	79	13
Middle Ridge (Postmans Ridge and Gatton)	110	M	129	13	128	13	127	13	126	13	126	13	126	12	125	12	124	12	123	12	123	12
Molendinar	110	GC	459	0	466	0	463	0	462	0	464	0	465	0	465	0	469	0	469	0	473	0
Mudgeeraba	110	GC	228	39	228	39	226	39	224	38	223	38	224	38	223	38	224	38	223	38	224	38
Mudgeeraba	33	GC	21	3	21	3	21	3	21	3	21	3	21	3	21	3	21	3	21	3	21	3
Murarrie	110	M	455	61	472	64	498	67	520	70	517	70	516	69	513	69	513	69	513	69	512	69
Palmwoods	110 & 132	M	374	107	375	108	373	107	370	106	370	106	370	106	372	107	374	108	378	109	379	109
Redbank Plains	11	M	29	0	29	0	30	0	30	0	31	0	32	1	32	1	33	1	34	1	34	1
Richlands	33	M	110	12	110	12	110	12	108	12	108	12	108	12	107	12	107	12	106	12	106	12
Rocklea	110	M	112	25	112	25	110	25	108	24	108	24	107	24	107	24	107	24	125	28	111	25

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

Connection point	Voltage (kV)	Zone	2024		2025		2026		2027		2028		2029		2030		2031		2032		2033	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Runcorn	33	M	54	3	54	3	54	3	54	3	55	3	56	3	56	3	56	3	56	3	57	3
South Pine	110	M	843	88	843	88	790	83	794	83	792	83	780	82	773	81	765	80	756	79	780	82
Sumner	110	M	24	4	23	4	23	4	23	4	22	4	22	4	22	4	23	4	23	4	23	4
Tennyson	33	M	155	12	156	12	155	12	154	12	153	12	154	12	155	12	156	12	157	12	159	12
Wecker Road	33	M	102	3	102	3	100	3	100	3	101	3	101	3	101	3	101	3	103	3	102	3
Woolooga (Gympie)	132	M	244	0	242	0	239	0	235	0	233	0	232	0	230	0	230	0	228	0	227	0

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

Connection point (1)	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33	
	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)	1,283	485	1,276	482	1,378	505	1,466	546	1,973	609	2,030	636	2,402	659	2,402	659	2,762	677	2,762	677
Transmission connected mining loads (3)	60	61	72	67	94	74	103	80	118	88	121	89	118	88	117	87	120	88	123	89
Transmission connected CSG loads (4)	883	248	885	248	910	256	888	253	882	251	860	245	846	239	839	236	801	222	777	219
Transmission connected rail supply substations (5)(6)	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167

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 – Kumbarilla Park.

(5) Rail supply substations include:
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Oonooie, 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 MVAr) coincident peak is significantly lower.

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

Connection point (1)	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33	
	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)	1,188	436	1,186	435	1,242	436	1,245	437	1,245	437	1,245	437	1,663	457	1,663	457	2,023	475	2,023	475
Transmission connected mining loads (3)	60	61	71	67	93	74	99	78	108	82	114	85	111	84	110	82	113	83	116	84
Transmission connected CSG loads (4)	865	243	877	245	858	235	855	239	854	238	835	235	802	222	792	218	770	212	745	206
Transmission connected rail supply substations (5)(6)	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167

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 – Kumbarilla Park.

(5) Rail supply substations include:
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Oonooie, 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 MVAr) coincident peak is significantly lower.

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

Connection point (1)	2023/24		2024/25		2025/26		2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33	
	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)	1,146	414	1,138	411	1,195	412	1,190	409	1,183	406	1,179	404	1,179	404	1,178	404	1,178	404	1,178	404
Transmission connected mining loads (3)	60	61	64	62	93	74	97	76	103	79	111	83	111	84	110	82	113	83	116	84
Transmission connected CSG loads (4)	860	243	879	247	817	218	769	204	782	212	757	204	743	202	731	196	714	192	672	178
Transmission connected rail supply substations (5)(6)	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167

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 – Kumbarilla Park.

(5) Rail supply substations include:
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Oonooie, 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 MVAr) coincident peak is significantly lower.

Table C.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	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Transmission connected industrial loads (2)	1,283	470	1,385	493	1,473	534	1,980	597	2,037	624	2,409	647	2,409	647	2,769	665	2,769	665	2,769	665
Transmission connected mining loads (3)	69	66	79	70	102	80	119	88	124	89	121	88	118	86	123	88	129	90	135	92
Transmission connected CSG loads (4)	896	251	909	257	894	253	883	253	867	248	849	241	844	237	837	236	790	221	749	209
Transmission connected rail supply substations (5)(6)	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167

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 – Kumbarilla Park.

(5) Rail supply substations include:

North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Oonooie, 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 MVAr) 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)	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032 (7)	
	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)	1,192	442	1,248	445	1,251	445	1,251	445	1,250	445	1,669	465	1,668	465	2,028	483	2,028	483	2,028	483
Transmission connected mining loads (3)	68	66	78	69	98	77	109	81	116	85	113	84	110	82	115	83	121	85	127	87
Transmission connected CSG loads (4)	886	248	858	236	862	241	850	239	837	236	807	224	802	221	781	214	755	208	731	202
Transmission connected rail supply substations (5)(6)	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167

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 – Kumbarilla Park.

(5) Rail supply substations include:
North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Oonooie, 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 MVAr) coincident peak is significantly lower.

(7) Connection point loads for winter 2031 have been extrapolated.

Table C.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	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Transmission connected industrial loads (2)	1,143	417	1,200	418	1,195	416	1,188	412	1,184	411	1,184	410	1,183	410	1,183	410	1,183	410	1,183	410
Transmission connected mining loads (3)	61	61	78	69	96	76	101	78	114	83	113	84	110	82	115	83	121	85	127	87
Transmission connected CSG loads (4)	883	248	830	222	784	208	781	211	767	207	746	201	736	197	727	195	702	189	678	184
Transmission connected rail supply substations (5)(6)	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167	116	167

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 – Kumbarilla Park.

(5) Rail supply substations include:

North zone – Bolingbroke, Coppabella, Mackay Ports, Mindi, Mt McLaren, Oonooie, 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 MVAr) coincident peak is significantly lower.

(7) Connection point loads for winter 2031 have been extrapolated.