

Customer forecasts of connection point maximum demands

Tables A.1 to A.18 show 10-year forecasts of native summer and winter 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 (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 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	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Alan Sherriff	132	R	30	15	29	14	30	15	30	15	31	16	32	16	32	16	33	16	33	16	34	17
Aligator Creek (Louisa Creek)	132	N	45	14	44	13	45	14	46	14	47	14	47	14	47	14	47	14	48	14	49	15
Alligator Creek	33	N	33	12	32	12	33	12	33	12	34	13	34	13	35	13	35	13	36	13	36	13
Biloela	66	CW	37	7	36	7	38	7	38	7	39	7	39	7	40	7	40	7	41	7	42	8
Blackwater	132	CW	33	20	32	19	33	20	34	20	34	21	34	21	35	21	35	21	35	21	36	22
Blackwater	66	CW	114	13	110	13	114	13	124	15	127	15	127	15	128	15	129	15	132	15	134	16
Bowen North	66	R	25	9	24	8	25	9	26	9	26	9	26	9	26	9	27	9	27	9	27	9
Bulli Creek (Waggamba)	132	B	22	4	22	4	23	4	23	4	24	4	24	4	24	4	25	4	25	4	25	5
Cairns	22	FN	55	0	53	0	55	0	55	0	56	0	56	0	57	0	57	0	58	0	59	0
Cairns City	132	FN	68	34	65	33	68	34	68	34	70	35	70	35	70	35	71	36	72	36	73	37
Calliope River	132	G	51	26	50	25	52	26	52	26	53	27	53	27	53	27	54	27	55	28	55	28
Cardwell	22	R	6	4	5	3	6	4	6	4	6	4	6	4	6	4	6	4	6	4	7	4
Chinchilla	132	SW	21	10	20	10	21	10	22	10	22	11	22	11	22	11	23	11	23	11	23	11
Clare South	66	R	95	30	92	30	96	31	97	31	100	32	100	32	101	33	103	33	105	34	106	34
Collinsville	33	N	18	9	17	9	18	9	18	9	18	9	18	9	18	9	18	10	19	10	19	10
Columboola	132	SW	70	10	68	10	70	10	71	10	73	10	72	10	73	10	74	11	75	11	76	11
Dan Gleeson	66	R	100	30	97	29	101	30	102	31	99	28	100	28	101	29	102	29	104	30	105	30

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Dysart	66	CW	47	8	46	8	47	8	48	8	49	8	49	8	49	8	50	9	50	9	51	9
Edmonton	22	FN	54	11	53	11	55	12	56	12	58	12	59	12	59	12	61	13	62	13	63	13
Egans Hill	66	CW	81	13	78	13	82	14	82	14	84	13	84	13	85	13	87	14	88	14	90	15
El Arish	22	FN	6	1	5	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1
Garbutt	66	R	95	29	92	28	96	29	97	29	95	27	95	27	96	27	97	28	99	28	100	29
Gin Gin	132	WB	160	19	155	19	161	19	162	20	167	20	168	20	169	20	172	21	175	21	177	21
Gladstone South	66	G	68	25	66	25	69	26	69	26	71	26	71	27	72	27	73	27	74	28	75	28
Ingham	66	R	22	6	22	6	22	6	22	6	23	6	23	6	23	6	23	6	24	6	24	6
Innisfail	22	FN	32	17	31	16	32	17	32	17	33	18	33	18	33	18	34	18	34	18	35	18
Kamerunga	22	FN	73	27	71	27	74	28	75	28	78	29	79	30	80	30	81	31	83	31	85	32
Lilyvale (Barcaldine & Clermont)	132	CW	40	6	38	6	40	6	40	7	41	7	41	7	41	7	42	7	43	7	43	7
Lilyvale	66	CW	160	73	154	71	160	74	169	77	173	79	173	79	174	80	176	81	179	82	181	83
Mackay	33	N	102	42	99	40	103	42	104	42	106	44	107	44	107	44	108	44	110	45	112	46
Middle Ridge	110	SW	247	36	243	35	256	37	258	37	266	39	268	39	271	39	275	40	280	41	285	41
Middle Ridge (Postmans Ridge)	110	M	11	5	11	5	12	5	12	5	12	5	12	5	12	5	12	5	13	5	13	6
Moranbah	132	N	43	14	42	14	43	14	44	14	45	15	45	15	45	15	45	15	46	15	47	15

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
(Broadlea)																						
Moranbah	66 and 11	N	143	47	139	46	144	48	145	48	151	50	154	51	154	51	156	52	158	53	160	53
Moura	66	CW	67	22	65	21	67	22	68	22	70	23	71	23	71	23	72	24	73	24	74	24
Nebo	11	N	3	1	3	1	3	1	3	1	4	1	4	1	4	1	4	1	4	1	4	1
Newlands	66	N	38	15	40	16	44	17	44	18	45	18	45	18	46	18	46	18	47	18	47	19
Oakey	110	SW	34	8	33	7	34	8	34	8	35	8	35	8	35	8	36	8	36	8	37	8
Pandoin	66	CW	50	8	49	8	52	9	53	9	56	8	57	9	58	9	59	9	60	10	61	10
Pioneer Valley	66	N	76	34	74	33	77	35	78	35	81	36	81	37	82	37	83	38	85	38	86	39
Proserpine	66	N	57	20	55	19	58	20	59	21	61	21	61	21	62	22	63	22	64	23	66	23
Rockhampton	66	CW	114	19	110	18	115	19	116	20	119	18	119	18	120	19	123	19	125	20	127	21
Ross (Kidston, Milchester and Georgetown)	132	R	53	19	54	20	59	21	61	22	63	23	63	23	64	23	65	24	66	24	67	24
Stoney Creek	132	N	7	3	7	3	7	3	7	3	7	4	7	4	7	4	7	4	7	4	8	4
Tangkam	110	SW	37	12	36	11	37	12	38	12	39	12	39	12	39	12	40	13	41	13	41	13
Tarong	66	SW	47	19	46	18	48	19	48	19	50	20	50	20	50	20	51	20	52	21	53	21
Teebar Creek (Isis and Maryborough)	132	WB	138	43	134	42	139	43	141	44	145	45	146	45	148	46	150	47	153	48	155	48

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Townsville East	66	R	44	13	43	13	45	13	45	14	44	13	44	13	45	13	45	13	46	13	47	13
Townsville South	66	R	101	30	98	29	102	31	103	31	100	29	101	29	101	29	103	29	104	30	106	30
Tully	22	R	17	8	16	8	17	8	17	8	18	9	18	9	18	9	18	9	18	9	18	9
Turkinje (Craigie and Lakeland)	132	FN	23	9	23	9	24	10	24	10	25	10	25	10	25	10	25	10	25	10	26	10
Turkinje	66	FN	65	17	65	17	69	19	70	19	72	19	72	19	72	19	73	20	74	20	75	20
Woolooga (Kilkivan)	132	WB	29	4	29	4	30	4	30	4	31	4	31	4	31	4	32	4	32	4	33	4
Woree (Cairns North)	132	FN	54	24	53	23	55	24	56	25	59	26	59	26	60	26	62	27	63	28	64	28
Yarwun (Boat Creek)	132	G	45	27	43	26	45	27	45	27	46	27	46	27	47	28	47	28	48	28	48	29
Hail Creek and King Creek	Various	Various	47	11	45	10	47	11	47	11	48	11	48	11	49	11	49	11	50	11	50	12

Note:

(1) Connection point loads for summer 2027/28 have been extrapolated.

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Alan Sherriff	132	R	26	13	26	13	26	13	26	13	27	13	26	13	26	13	27	13	27	13	27	13
Aligator Creek (Louisa Creek)	132	N	38	11	38	11	38	11	38	11	38	11	38	11	37	11	38	11	38	11	38	11
Alligator Creek	33	N	24	9	24	9	24	9	24	9	24	9	24	9	24	9	24	9	24	9	25	9
Biloela	66	CW	36	6	36	6	36	6	36	6	37	7	36	6	36	6	36	6	37	7	37	7
Blackwater	132	CW	25	14	25	14	25	14	25	14	25	14	24	14	24	14	24	14	25	14	25	14
Blackwater	66	CW	104	12	103	12	103	12	112	13	112	13	110	13	109	13	110	13	111	13	113	14
Bowen North	66	R	23	8	23	8	23	8	23	8	23	8	23	8	23	8	23	8	23	8	23	8
Bulli Creek (Waggamba)	132	B	21	4	20	4	21	4	21	4	21	4	21	4	21	4	21	4	21	4	22	4
Cairns	22	FN	45	0	44	0	44	0	44	0	45	0	44	0	43	0	44	0	44	0	44	0
Cairns City	132	FN	55	28	54	27	54	27	54	27	55	28	54	27	53	27	54	27	54	27	54	27
Calliope River	132	G	59	29	58	29	58	29	58	29	59	29	57	29	57	28	57	28	58	29	58	29
Cardwell	22	R	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3
Chinchilla	132	SW	23	11	22	11	23	11	23	11	23	11	23	11	22	11	23	11	23	11	23	11
Clare South	66	R	94	30	93	30	94	30	95	30	96	30	94	30	94	30	95	30	96	30	97	31
Collinsville	33	N	13	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6
Columboola	132	SW	70	10	69	10	69	10	69	10	70	10	68	9	68	9	68	9	69	10	69	10
Dan Gleeson	66	R	99	21	98	21	99	21	99	21	96	20	95	19	94	19	95	19	96	19	97	20

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Dysart	66	CW	40	7	40	7	40	7	40	7	40	7	39	7	39	7	39	7	39	7	40	7
Edmonton	22	FN	48	10	48	10	49	10	49	10	50	10	50	10	50	10	51	10	51	10	52	10
Egans Hill	66	CW	65	12	64	11	64	12	64	12	65	12	64	12	63	11	64	12	65	12	66	12
El Arish	22	FN	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1
Garbutt	66	R	86	19	85	18	86	18	86	19	83	17	82	17	82	16	83	17	83	17	84	17
Gin Gin	132	WB	174	20	172	20	174	20	175	20	176	20	173	20	173	20	175	20	176	20	178	21
Gladstone South	66	G	53	19	52	19	53	19	53	19	53	19	52	19	52	19	53	19	53	19	54	20
Ingham	66	R	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5
Innisfail	22	FN	27	14	27	14	27	14	27	14	27	14	26	14	26	14	26	14	27	14	27	14
Kamerunga	22	FN	65	24	65	24	66	24	66	25	67	25	67	25	67	25	68	25	69	26	70	26
Lilyvale (Barcaldine & Clermont)	132	CW	35	6	35	6	35	6	35	6	35	6	34	6	34	6	35	6	35	6	35	6
Lilyvale	66	CW	123	57	122	56	123	56	128	59	129	59	127	58	126	58	127	58	128	59	129	59
Mackay	33	N	88	35	87	34	88	34	88	34	89	35	87	34	86	34	87	34	88	35	89	35
Middle Ridge	110	SW	212	31	214	31	217	32	218	32	221	32	218	32	218	32	220	32	223	32	225	33
Middle Ridge (Postmans Ridge)	110	M	13	6	13	6	14	6	14	6	14	6	13	6	13	6	14	6	14	6	14	6
Moranbah	132	N	39	12	39	12	39	12	39	12	39	12	38	11	38	11	38	11	39	11	39	12

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
(Broadlea)																						
Moranbah	66 and 11	N	135	46	135	46	136	46	136	46	138	47	138	46	137	46	138	46	138	47	139	47
Moura	66	CW	61	20	61	20	61	20	61	20	62	20	61	20	61	20	61	20	62	20	62	21
Nebo	11	N	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Newlands	66	N	25	10	27	11	30	12	30	12	30	12	30	11	29	11	30	11	30	11	30	11
Oakey	110	SW	24	6	24	6	24	6	24	6	24	6	23	6	23	6	23	6	24	6	24	6
Pandoin	66	CW	49	9	49	9	51	9	52	9	53	10	53	10	53	10	54	10	55	10	55	10
Pioneer Valley	66	N	62	27	61	27	62	27	62	27	63	28	62	27	62	27	62	27	63	28	64	28
Proserpine	66	N	46	16	46	16	47	16	47	16	48	17	47	16	48	16	48	17	49	17	50	17
Rockhampton	66	CW	87	16	86	15	86	16	87	16	87	16	86	16	85	16	87	16	88	16	89	17
Ross (Kidston, Milchester and Georgetown)	132	R	40	15	43	15	45	16	46	17	47	17	46	17	46	16	46	17	47	17	47	17
Stoney Creek	132	N	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2
Tangkam	110	SW	34	11	34	11	34	11	34	11	35	11	34	11	34	11	34	11	35	11	35	11
Tarong	66	SW	41	16	40	16	41	16	41	16	41	16	40	16	40	16	41	16	41	16	42	17
Teebar Creek (Isis and Maryborough)	132	WB	112	36	111	36	112	37	113	37	114	37	112	37	112	37	114	37	115	38	116	38

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Townsville East	66	R	38	8	37	8	38	8	38	8	37	7	36	7	36	7	36	7	37	7	37	7
Townsville South	66	R	89	19	88	19	89	19	89	19	87	18	85	17	85	17	86	17	86	17	87	18
Tully	22	R	15	7	15	7	15	7	15	7	15	7	14	7	14	7	14	7	15	7	15	7
Turkinje (Craigie and Lakeland)	132	FN	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	9
Turkinje	66	FN	57	15	58	15	60	16	60	16	60	16	59	15	59	15	59	15	59	15	60	16
Woolooga (Kilkivan)	132	WB	27	4	27	4	27	4	27	4	28	4	27	4	27	4	27	4	28	4	28	4
Woree (Cairns North)	132	FN	47	19	47	19	47	20	48	20	49	20	48	20	49	20	50	20	50	21	51	21
Yarwun (Boat Creek)	132	G	36	20	35	20	36	20	36	20	36	20	35	20	35	20	35	20	35	20	35	20
Hail Creek and King Creek	Various	Various	41	9	40	9	41	9	41	9	41	9	40	9	40	9	40	9	40	9	41	9

Note:

(1) Connection point loads for summer 2027/28 have been extrapolated.

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Alan Sherriff	132	R	25	12	25	12	25	12	24	12	24	12	24	11	23	11	22	11	22	11	22	10
Aligator Creek (Louisa Creek)	132	N	37	11	37	11	36	11	35	10	35	10	34	10	32	10	32	9	31	9	30	9
Alligator Creek	33	N	23	9	23	9	22	8	22	8	22	8	21	8	21	8	20	7	20	7	19	7
Biloela	66	CW	35	6	35	6	34	6	33	6	33	6	32	6	31	6	30	5	30	5	29	5
Blackwater	132	CW	24	14	24	14	23	13	23	13	23	13	22	13	21	12	20	12	20	12	20	11
Blackwater	66	CW	101	12	100	12	97	12	103	12	102	12	99	12	94	11	92	11	91	11	89	11
Bowen North	66	R	22	8	22	8	22	7	21	7	21	7	20	7	19	7	19	7	19	6	18	6
Bulli Creek (Waggamba)	132	B	20	3	20	3	19	3	19	3	19	3	19	3	18	3	18	3	17	3	17	3
Cairns	22	FN	43	0	43	0	42	0	41	0	41	0	39	0	37	0	37	0	36	0	35	0
Cairns City	132	FN	53	27	53	26	51	26	50	25	50	25	48	24	46	23	45	23	44	22	43	22
Calliope River	132	G	57	28	56	28	55	27	54	27	53	27	51	26	49	24	48	24	47	23	46	23
Cardwell	22	R	5	3	5	3	5	3	5	3	5	3	5	3	4	3	4	3	4	3	4	3
Chinchilla	132	SW	22	11	22	10	21	10	21	10	21	10	20	10	19	9	19	9	19	9	18	9
Clare South	66	R	91	29	91	29	89	28	88	28	87	28	84	27	81	26	79	25	78	25	77	24
Collinsville	33	N	12	6	12	6	12	6	11	6	11	6	11	6	10	5	10	5	10	5	10	5
Columboola	132	SW	67	9	67	9	65	9	64	9	63	9	61	8	58	8	57	8	56	8	55	8
Dan Gleeson	66	R	96	21	95	20	93	21	92	20	88	18	85	19	81	18	80	17	78	17	77	16

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Dysart	66	CW	39	7	38	7	37	7	37	6	36	6	35	6	34	6	33	6	32	6	31	5
Edmonton	22	FN	47	9	47	9	46	9	46	9	46	9	45	9	43	9	42	9	42	8	41	8
Egans Hill	66	CW	63	11	62	13	60	12	60	12	59	12	57	12	55	12	54	12	53	12	52	12
El Arish	22	FN	5	1	5	1	5	1	5	1	5	1	4	1	4	1	4	1	4	1	4	1
Garbutt	66	R	83	18	83	18	81	18	80	18	76	16	74	16	70	15	69	15	68	15	66	14
Gin Gin	132	WB	169	20	167	19	163	19	161	19	161	19	156	18	149	17	146	17	144	17	141	16
Gladstone South	66	G	51	19	51	19	49	18	49	18	49	18	47	17	45	16	44	16	43	16	42	15
Ingham	66	R	19	5	19	5	19	5	18	5	18	5	18	5	17	4	16	4	16	4	16	4
Innisfail	22	FN	26	14	26	13	25	13	25	13	25	13	24	12	23	12	22	11	22	11	21	11
Kamerunga	22	FN	63	23	63	23	62	23	61	23	61	23	60	22	58	21	57	21	56	21	55	21
Lilyvale (Barcaldine & Clermont)	132	CW	34	6	34	5	33	5	32	5	32	5	31	5	30	5	29	5	28	5	28	5
Lilyvale	66	CW	120	55	118	54	115	53	119	54	118	54	114	52	109	50	106	49	104	48	102	47
Mackay	33	N	85	34	84	33	82	32	81	32	81	32	78	31	75	29	73	29	71	28	70	28
Middle Ridge	110	SW	205	30	207	30	204	30	202	29	201	29	196	29	188	27	184	27	181	26	178	26
Middle Ridge (Postmans Ridge)	110	M	12	5	13	6	13	6	13	5	12	5	12	5	12	5	11	5	11	5	11	5
Moranbah	132	N	38	11	38	11	37	11	36	11	36	11	34	10	33	10	32	10	31	9	31	9

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
(Broadlea)																						
Moranbah	66 and 11	N	131	44	131	44	127	43	125	42	126	43	123	42	118	40	115	39	113	38	110	37
Moura	66	CW	59	20	59	19	57	19	56	19	56	19	55	18	52	17	51	17	50	17	49	16
Nebo	11	N	3	1	3	1	3	1	3	1	3	1	3	1	2	1	2	1	2	1	2	1
Newlands	66	N	24	9	27	10	28	11	28	11	28	11	27	10	25	10	25	10	24	9	24	9
Oakey	110	SW	23	6	23	5	22	5	22	5	22	5	21	5	20	5	20	5	19	5	19	4
Pandoin	66	CW	48	8	48	10	48	10	48	10	48	10	47	10	46	10	45	10	44	10	44	10
Pioneer Valley	66	N	60	26	60	26	58	26	58	25	57	25	55	24	53	23	52	23	51	23	50	22
Proserpine	66	N	45	16	45	16	44	15	44	15	44	15	43	15	41	14	40	14	40	14	39	14
Rockhampton	66	CW	84	15	83	17	81	17	80	16	80	16	77	16	74	17	73	16	71	16	70	16
Ross (Kidston, Milchester and Georgetown)	132	R	39	14	41	15	42	15	43	15	43	15	41	15	39	14	39	14	38	14	37	13
Stoney Creek	132	N	5	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2
Tangkam	110	SW	33	11	33	10	32	10	32	10	31	10	30	10	29	9	29	9	28	9	28	9
Tarong	66	SW	39	16	39	16	38	15	38	15	37	15	36	14	35	14	34	14	34	13	33	13
Teebar Creek (Isis and Maryborough)	132	WB	108	35	108	35	105	34	104	34	104	34	101	33	97	32	95	31	93	31	92	30

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28(1)	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Townsville East	66	R	37	8	36	8	35	8	35	8	33	7	32	7	31	7	30	7	30	6	29	6
Townsville South	66	R	86	18	86	18	84	19	83	18	79	16	76	17	73	16	72	15	70	15	69	15
Tully	22	R	14	7	14	7	14	7	14	6	13	6	13	6	12	6	12	6	12	6	12	5
Turkinje (Craigie and Lakeland)	132	FN	20	8	19	8	19	8	19	8	19	8	18	7	17	7	17	7	16	7	16	7
Turkinje	66	FN	55	14	56	15	56	15	55	14	55	14	53	14	50	13	49	13	48	13	47	12
Woolooga (Kilkivan)	132	WB	26	4	26	4	26	3	25	3	25	3	24	3	23	3	23	3	23	3	22	3
Woree (Cairns North)	132	FN	45	19	45	19	45	18	44	18	45	18	43	18	42	17	41	17	41	17	41	17
Yarwun (Boat Creek)	132	G	35	20	34	19	33	19	33	19	33	18	31	18	30	17	29	17	29	16	28	16
Hail Creek and King Creek	Various	Various	40	9	39	9	38	9	38	8	37	8	36	8	34	8	34	8	33	7	32	7

Note:

(1) Connection point loads for summer 2027/28 have been extrapolated.

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Alan Sheriff	132	R	23	12	24	12	23	12	24	12	25	12	26	13	26	13	26	13	27	14	28	14
Alligator Creek (Louisa Creek)	132	N	46	15	47	15	45	14	47	15	47	15	49	15	49	15	49	16	50	16	50	16
Alligator Creek	33	N	25	9	26	9	25	9	26	9	26	9	27	10	27	10	27	10	28	10	28	10
Biloela	66	CW	32	4	33	4	32	4	33	4	33	4	34	4	34	4	35	4	35	4	36	4
Blackwater	132	CW	32	21	33	22	32	21	33	22	33	22	34	23	34	23	34	23	35	23	35	23
Blackwater	66	CW	110	16	113	16	109	16	124	18	124	18	128	18	128	18	129	18	132	19	134	19
Bowen North	66	R	26	8	26	8	26	8	27	9	27	9	27	9	28	9	28	9	28	9	28	9
Bulli Creek (Waggamba)	132	B	24	12	25	12	24	12	25	12	25	12	26	13	26	13	27	13	27	13	28	13
Cairns	22	FN	42	5	43	5	42	5	43	5	44	5	45	6	45	6	45	6	46	6	47	6
Cairns City	132	FN	53	28	54	29	53	28	55	29	55	29	57	30	57	30	57	30	58	31	59	31
Calliope River	132	G	52	26	53	26	52	25	54	26	54	26	56	27	56	27	56	27	57	28	58	28
Cardwell	22	R	5	3	5	3	5	3	6	3	6	3	6	4	6	4	6	4	6	4	6	4
Chinchilla	132	SW	21	5	22	6	21	5	22	6	22	6	23	6	23	6	23	6	23	6	24	6
Clare South	66	R	77	21	79	21	77	21	80	22	81	22	83	23	84	23	85	23	86	24	88	24
Collinsville	33	N	15	7	15	7	15	6	16	7	16	7	16	7	16	7	16	7	16	7	17	7
Columboola	132	SW	66	15	67	15	65	15	67	15	68	15	70	16	70	16	70	16	71	16	72	16
Dan Gleeson	66	R	101	39	103	40	100	39	104	41	105	41	100	33	100	33	101	33	103	34	104	34

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Dysart	66	CW	47	8	48	8	47	8	49	8	49	8	50	9	50	9	51	9	52	9	52	9
Edmonton	22	FN	42	8	43	8	41	8	43	8	43	8	45	8	45	8	45	8	46	8	46	9
Egans Hill	66	CW	61	11	63	10	61	11	64	11	65	11	68	11	68	11	69	12	71	12	72	12
El Arish	22	FN	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1
Garbutt	66	R	87	34	90	35	87	34	90	35	91	35	87	29	87	29	88	29	89	30	90	30
Gin Gin	132	WB	148	20	153	21	148	20	154	21	156	21	161	22	161	22	162	22	165	22	168	23
Gladstone South	66	G	60	20	61	20	60	20	62	20	63	21	65	21	65	21	65	22	67	22	68	22
Ingham	66	R	22	4	22	4	22	4	22	4	23	4	23	4	23	4	23	4	24	5	24	5
Innisfail	22	FN	25	13	26	13	25	13	26	13	26	13	27	13	27	13	27	14	27	14	27	14
Kamerunga	22	FN	51	17	53	17	52	17	54	18	55	18	57	19	57	19	58	19	59	19	60	20
Lilyvale (Barcaldine & Clermont)	132	CW	38	4	38	4	37	4	39	4	39	4	40	4	40	4	41	4	41	4	42	4
Lilyvale	66	CW	148	66	151	68	147	66	152	68	160	72	165	74	165	74	166	74	168	76	171	77
Mackay	33	N	77	43	79	44	77	43	80	45	81	45	83	47	83	47	84	47	86	48	87	49
Middle Ridge	110	SW	261	25	272	26	268	25	281	26	284	27	294	28	295	28	298	28	304	29	308	29
Middle Ridge (Postmans Ridge)	110	M	12	4	13	4	13	4	14	4	14	4	14	4	14	4	14	4	14	5	15	5
Moranbah	132	N	47	14	48	15	47	14	48	15	49	15	50	15	50	15	51	15	51	16	52	16

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
(Broadlea)																						
Moranbah	66 and 11	N	152	50	157	52	152	50	158	52	161	53	169	55	169	56	170	56	173	57	175	57
Moura	66	CW	63	20	64	20	62	20	65	20	66	21	68	21	68	21	69	22	70	22	71	22
Nebo	11	N	2	1	3	1	2	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Newlands	66	N	32	12	36	14	38	15	39	15	40	15	41	16	41	16	41	16	42	16	42	16
Oakey	110	SW	23	4	24	4	23	4	24	4	24	5	25	5	25	5	25	5	25	5	26	5
Pandoin	66	CW	39	7	41	7	40	7	42	7	42	7	44	7	44	7	45	8	46	8	46	8
Pioneer Valley	66	N	53	22	54	23	53	22	55	23	56	23	58	24	58	24	59	24	60	25	61	25
Proserpine	66	N	54	19	56	20	54	19	57	20	57	21	59	21	60	21	60	22	62	22	63	23
Rockhampton	66	CW	89	16	90	15	87	15	89	15	89	15	91	15	91	15	90	15	92	16	93	16
Ross (Kidston, Milchester and Georgetown)	132	R	45	15	49	17	50	17	54	18	55	19	57	19	57	19	57	19	58	20	59	20
Stoney Creek	132	N	5	3	6	3	5	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3
Tangkam	110	SW	35	8	35	9	35	8	36	9	36	9	37	9	38	9	38	9	39	9	39	10
Tarong	66	SW	42	13	43	13	42	13	43	13	43	14	45	14	45	14	45	14	46	14	46	14
Teebar Creek (Isis and Maryborough)	132	WB	113	14	116	14	113	14	117	14	118	14	122	15	122	15	123	15	126	15	127	16
Townsville East	66	R	42	16	43	17	42	16	44	17	44	17	42	14	42	14	42	14	43	14	44	14

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Townsville South	66	R	74	29	76	30	74	29	77	30	78	30	74	24	74	25	75	25	76	25	77	25
Tully	22	R	14	6	14	6	14	6	14	6	14	6	15	6	15	6	15	6	15	6	15	6
Turkinje (Craigie and Lakeland)	132	FN	21	9	22	9	21	9	22	9	22	9	23	10	23	10	23	10	23	10	24	10
Turkinje	66	FN	61	14	62	14	62	14	67	15	67	15	69	16	69	16	70	16	71	16	72	16
Woolooga (Kilkivan)	132	WB	21	4	22	4	21	4	22	4	22	4	23	4	23	4	23	4	23	4	23	4
Woree (Cairns North)	132	FN	40	7	41	7	40	7	42	8	43	8	44	8	45	8	45	8	46	8	47	8
Yarwun (Boat Creek)	132	G	48	23	49	23	48	23	50	24	50	24	51	24	52	25	52	25	53	25	53	25
Hail Creek and King Creek	Various	N	45	9	46	10	45	9	46	10	47	10	48	10	48	10	48	10	49	10	50	10

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Alan Sheriff	132	R	22	11	22	11	22	11	22	11	22	11	23	11	22	11	22	11	23	12	23	12
Alligator Creek (Louisa Creek)	132	N	43	14	43	14	42	13	42	13	42	13	43	14	42	13	42	13	42	13	42	13
Alligator Creek	33	N	24	8	24	8	23	8	23	8	23	8	24	8	23	8	23	8	23	8	24	8
Biloela	66	CW	30	4	30	4	29	4	30	4	30	4	30	4	30	4	29	4	30	4	30	4
Blackwater	132	CW	27	18	27	18	27	18	27	18	27	18	27	18	27	18	26	18	27	18	27	18
Blackwater	66	CW	103	15	103	15	101	14	111	16	111	16	112	16	110	16	109	16	111	16	113	16
Bowen North	66	R	24	8	24	8	24	8	24	8	24	8	24	8	24	8	23	8	24	8	24	8
Bulli Creek (Waggamba)	132	B	23	11	23	11	22	11	23	11	23	11	23	11	23	11	23	11	23	11	23	11
Cairns	22	FN	40	5	39	5	39	5	39	5	39	5	40	5	39	5	39	5	39	5	39	5
Cairns City	132	FN	50	27	50	26	49	26	49	26	49	26	50	27	49	26	48	26	49	26	49	26
Calliope River	132	G	49	24	49	24	48	23	48	24	48	24	49	24	48	23	48	23	48	23	48	24
Cardwell	22	R	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3	5	3
Chinchilla	132	SW	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5
Clare South	66	R	72	20	72	20	71	19	72	20	72	20	73	20	72	20	72	20	73	20	74	20
Collinsville	33	N	14	6	14	6	14	6	14	6	14	6	14	6	14	6	14	6	14	6	14	6
Columboola	132	SW	61	14	61	14	60	14	60	14	61	14	61	14	60	14	60	14	60	14	61	14
Dan Gleeson	66	R	94	37	94	37	93	36	93	36	94	36	88	29	86	29	86	28	87	29	88	29

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Dysart	66	CW	44	8	44	8	43	7	44	7	44	8	44	8	43	7	43	7	44	7	44	8
Edmonton	22	FN	39	7	39	7	38	7	39	7	39	7	39	7	38	7	38	7	39	7	39	7
Egans Hill	66	CW	57	11	57	11	57	11	58	11	58	11	59	11	59	11	59	11	60	11	60	12
El Arish	22	FN	5	1	5	1	4	1	4	1	4	1	5	1	4	1	4	0	4	1	4	1
Garbutt	66	R	82	32	81	32	81	31	81	32	81	32	76	25	75	25	74	25	75	25	76	25
Gin Gin	132	WB	139	19	139	19	137	19	138	19	139	19	141	19	139	19	138	19	140	19	141	19
Gladstone South	66	G	56	19	56	18	55	18	56	18	56	18	57	19	56	18	56	18	56	19	57	19
Ingham	66	R	21	4	20	4	20	4	20	4	20	4	20	4	20	4	20	4	20	4	20	4
Innisfail	22	FN	23	12	23	12	23	12	23	12	23	12	23	12	23	12	23	12	23	12	23	12
Kamerunga	22	FN	48	16	48	16	48	16	48	16	49	16	50	16	49	16	49	16	50	16	51	17
Lilyvale (Barcaldine & Clermont)	132	CW	35	3	35	3	35	3	35	3	35	3	35	3	35	3	34	3	35	3	35	3
Lilyvale	66	CW	139	62	138	62	136	61	136	61	143	64	145	65	142	64	141	63	142	64	143	64
Mackay	33	N	72	40	72	40	71	40	72	40	72	40	73	41	72	40	71	40	72	40	73	41
Middle Ridge	110	SW	243	23	246	23	246	23	250	24	251	24	256	24	252	24	251	24	255	24	257	24
Middle Ridge (Postmans Ridge)	110	M	12	4	12	4	12	4	12	4	12	4	12	4	12	4	12	4	12	4	12	4
Moranbah	132	N	44	13	44	13	43	13	44	13	44	13	44	13	43	13	43	13	43	13	44	13

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
(Broadlea)																						
Moranbah	66 and 11	N	143	47	143	47	141	46	142	47	144	47	148	49	145	48	144	47	146	48	147	48
Moura	66	CW	59	19	59	18	58	18	58	18	59	18	60	19	59	18	58	18	59	19	59	19
Nebo	11	N	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
Newlands	66	N	30	12	33	13	35	14	35	14	35	14	36	14	35	14	35	14	35	14	35	14
Oakey	110	SW	22	4	22	4	21	4	21	4	21	4	22	4	21	4	21	4	21	4	22	4
Pandoin	66	CW	37	7	37	7	37	7	37	7	38	7	39	7	38	7	38	7	39	7	39	8
Pioneer Valley	66	N	49	21	49	21	49	20	49	21	50	21	51	21	50	21	50	21	51	21	51	21
Proserpine	66	N	51	18	51	18	50	18	51	18	51	18	52	19	51	18	51	18	52	19	53	19
Rockhampton	66	CW	84	16	82	16	80	15	80	15	80	15	80	15	78	15	77	15	78	15	79	15
Ross (Kidston, Milchester and Georgetown)	132	R	42	14	45	15	46	16	49	16	49	17	50	17	49	17	49	16	49	17	50	17
Stoney Creek	132	N	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2
Tangkam	110	SW	32	8	32	8	32	8	32	8	32	8	33	8	32	8	32	8	33	8	33	8
Tarong	66	SW	39	12	39	12	39	12	39	12	39	12	39	12	38	12	38	12	39	12	39	12
Teebar Creek (Isis and Maryborough)	132	WB	106	13	106	13	105	13	105	13	106	13	107	13	105	13	105	13	106	13	107	13
Townsville East	66	R	40	15	39	15	39	15	39	15	39	15	37	12	36	12	36	12	36	12	37	12

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Townsville South	66	R	70	27	69	27	69	27	69	27	69	27	65	21	64	21	63	21	64	21	65	21
Tully	22	R	13	5	13	5	13	5	13	5	13	5	13	5	13	5	13	5	13	5	13	5
Turkinje (Craigie and Lakeland)	132	FN	20	8	20	8	19	8	20	8	20	8	20	8	19	8	19	8	20	8	20	8
Turkinje	66	FN	57	13	57	13	58	13	60	13	60	13	61	14	60	13	59	13	60	13	60	13
Woolooga (Kilkivan)	132	WB	20	4	20	4	19	4	20	4	20	4	20	4	19	4	19	4	19	4	20	4
Woree (Cairns North)	132	FN	37	7	37	7	37	7	38	7	38	7	39	7	38	7	38	7	39	7	40	7
Yarwun (Boat Creek)	132	G	45	21	45	21	44	21	45	21	45	21	45	21	44	21	44	21	45	21	45	21
Hail Creek and King Creek	Various	N	42	9	42	9	41	9	42	9	42	9	42	9	41	9	41	8	42	9	42	9

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Alan Sheriff	132	R	21	11	21	11	21	11	21	10	20	10	21	10	20	10	19	10	19	10	19	10
Alligator Creek (Louisa Creek)	132	N	42	13	41	13	41	13	40	13	39	12	39	12	38	12	36	11	35	11	35	11
Alligator Creek	33	N	23	8	23	8	23	8	22	8	22	8	22	8	21	7	20	7	20	7	19	7
Biloela	66	CW	30	4	29	4	29	4	28	3	28	3	27	3	26	3	25	3	25	3	24	3
Blackwater	132	CW	27	18	26	17	26	17	25	17	25	17	25	16	24	16	23	15	22	15	22	15
Blackwater	66	CW	102	15	99	14	98	14	104	15	103	15	102	15	99	14	95	13	93	13	92	13
Bowen North	66	R	24	8	23	7	23	7	22	7	22	7	22	7	21	7	20	7	20	6	19	6
Bulli Creek (Waggamba)	132	B	22	11	22	10	22	10	21	10	21	10	21	10	20	10	20	9	19	9	19	9
Cairns	22	FN	39	5	38	5	38	5	37	5	36	4	36	4	35	4	33	4	33	4	32	4
Cairns City	132	FN	49	26	48	26	47	25	46	25	46	24	45	24	44	23	42	22	41	22	40	21
Calliope River	132	G	48	24	47	23	46	23	45	22	45	22	45	22	43	21	41	20	40	20	39	19
Cardwell	22	R	5	3	5	3	5	3	5	3	5	3	5	3	5	3	4	3	4	3	4	3
Chinchilla	132	SW	20	5	19	5	19	5	19	5	18	5	18	5	18	4	17	4	17	4	16	4
Clare South	66	R	71	19	69	19	69	19	67	18	67	18	67	18	65	18	62	17	61	17	60	16
Collinsville	33	N	14	6	14	6	13	6	13	6	13	6	13	6	12	5	12	5	12	5	11	5
Columboola	132	SW	61	14	59	13	58	13	57	13	56	13	56	13	54	12	52	12	51	12	49	11
Dan Gleeson	66	R	93	36	91	35	90	35	88	34	87	34	80	27	77	26	74	25	73	24	71	24

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Dysart	66	CW	44	8	43	7	42	7	41	7	41	7	40	7	39	7	37	6	37	6	36	6
Edmonton	22	FN	39	7	38	7	37	7	36	7	36	7	36	7	34	6	33	6	32	6	32	6
Egans Hill	66	CW	56	11	55	11	55	11	54	10	54	10	54	10	53	10	51	9	50	9	49	9
El Arish	22	FN	4	1	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0
Garbutt	66	R	81	32	79	31	78	30	76	30	75	29	69	23	67	22	64	21	63	21	62	21
Gin Gin	132	WB	137	19	134	18	133	18	130	18	129	17	129	17	124	17	119	16	117	16	115	16
Gladstone South	66	G	56	18	54	18	54	18	52	17	52	17	52	17	50	16	48	16	47	16	46	15
Ingham	66	R	20	4	20	4	19	4	19	4	19	4	19	4	18	3	17	3	17	3	17	3
Innisfail	22	FN	23	12	22	11	22	11	22	11	21	11	21	11	21	10	20	10	19	10	19	10
Kamerunga	22	FN	48	16	46	15	46	15	45	15	45	15	45	15	44	15	42	14	42	14	41	14
Lilyvale (Barcaldine & Clermont)	132	CW	35	3	34	3	34	3	33	3	32	3	32	3	31	3	30	3	29	3	29	3
Lilyvale	66	CW	137	61	133	60	132	59	128	58	132	59	132	59	127	57	122	55	119	54	117	52
Mackay	33	N	72	40	70	39	69	39	68	38	67	37	67	37	64	36	62	35	61	34	59	33
Middle Ridge	110	SW	240	23	237	22	238	22	235	22	233	22	233	22	226	21	217	20	213	20	209	20
Middle Ridge (Postmans Ridge)	110	M	11	4	12	4	12	4	11	4	11	4	11	4	11	3	10	3	10	3	10	3
Moranbah	132	N	44	13	42	13	42	13	41	12	40	12	40	12	39	12	37	11	36	11	36	11

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
(Broadlea)																						
Moranbah	66 and 11	N	141	46	138	45	137	45	133	44	134	44	135	44	130	43	125	41	122	40	120	39
Moura	66	CW	58	18	57	18	56	18	55	17	54	17	55	17	53	17	50	16	49	16	48	15
Nebo	11	N	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
Newlands	66	N	30	12	32	12	34	13	33	13	33	13	33	13	31	12	30	12	29	11	29	11
Oakey	110	SW	21	4	21	4	21	4	20	4	20	4	20	4	19	4	18	3	18	3	18	3
Pandoin	66	CW	37	7	36	7	36	7	35	7	35	7	35	7	34	6	33	6	32	6	32	6
Pioneer Valley	66	N	49	20	48	20	47	20	47	19	46	19	46	19	45	19	43	18	43	18	42	17
Proserpine	66	N	50	18	49	18	49	17	48	17	47	17	48	17	46	17	44	16	44	16	43	15
Rockhampton	66	CW	83	16	79	15	78	15	76	14	74	14	73	14	70	13	66	12	65	12	64	12
Ross (Kidston, Milchester and Georgetown)	132	R	42	14	43	15	45	15	46	16	45	15	45	15	44	15	42	14	41	14	41	14
Stoney Creek	132	N	5	2	5	2	5	2	5	2	5	2	5	2	5	2	4	2	4	2	4	2
Tangkam	110	SW	32	8	31	8	31	8	30	7	30	7	30	7	29	7	28	7	27	7	27	7
Tarong	66	SW	39	12	38	12	37	12	36	11	36	11	36	11	34	11	33	10	32	10	32	10
Teebar Creek (Isis and Maryborough)	132	WB	105	13	102	12	101	12	99	12	98	12	98	12	94	12	91	11	89	11	87	11
Townsville East	66	R	39	15	38	15	38	15	37	14	36	14	34	11	32	11	31	10	31	10	30	10

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Townsville South	66	R	69	27	67	26	66	26	65	25	64	25	59	20	57	19	55	18	54	18	53	17
Tully	22	R	13	5	13	5	12	5	12	5	12	5	12	5	12	5	11	5	11	4	11	4
Turkinje (Craigie and Lakeland)	132	FN	19	8	19	8	19	8	18	8	18	8	18	8	17	7	17	7	16	7	16	7
Turkinje	66	FN	54	12	52	12	53	12	54	12	53	12	53	12	51	11	49	11	48	11	47	10
Woolooga (Kilkivan)	132	WB	20	4	19	4	19	3	18	3	18	3	18	3	17	3	17	3	16	3	16	3
Woree (Cairns North)	132	FN	37	7	36	6	36	6	35	6	35	6	35	6	34	6	33	6	33	6	32	6
Yarwun (Boat Creek)	132	G	45	21	43	21	43	20	42	20	41	20	41	20	40	19	38	18	37	18	37	17
Hail Creek and King Creek	Various	N	42	9	41	8	40	8	39	8	39	8	39	8	37	8	36	7	35	7	34	7

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Abermain	110	M	70	24	70	24	71	24	71	24	71	24	72	25	71	24	71	24	71	24	72	25
Abermain	33	M	113	18	119	19	122	20	124	20	126	20	129	21	130	21	131	21	133	22	134	22
Algeria	33	M	68	17	68	17	68	17	67	17	67	17	68	17	67	17	67	17	67	17	67	17
Ashgrove West	110	M	113	17	114	17	115	17	116	17	119	18	123	18	124	19	125	19	127	19	128	19
Ashgrove West	33	M	81	9	81	9	81	9	81	9	81	9	82	9	82	9	82	9	82	9	82	9
Belmont	110	M	439	251	445	255	449	257	459	263	468	268	478	274	479	274	481	276	486	278	489	280
Blackstone (Raceview)	110	M	101	12	101	12	101	12	101	12	102	12	103	12	102	12	102	12	102	12	102	12
Bundamba	110	M	36	22	36	22	36	22	36	22	36	22	36	22	36	22	35	22	35	22	35	22
Goodna	33	M	122	15	125	15	126	15	128	16	130	16	133	16	134	16	135	17	136	17	138	17
Loganlea	110	M	371	144	376	146	377	146	379	147	383	149	387	150	386	150	385	149	386	150	388	150
Loganlea	33	M	99	17	100	17	100	17	99	17	100	17	101	17	100	17	100	17	100	17	100	17
Middle Ridge (Postmans Ridge and Gatton)	110	M	99	12	100	12	100	12	100	12	100	12	101	12	100	12	100	12	101	12	101	12
Molendinar	110	GC	525	67	537	69	542	69	542	69	546	70	551	70	548	70	547	70	548	70	549	70
Mudgeeraba	110	GC	328	87	329	87	330	87	329	87	331	88	334	88	332	88	331	88	331	88	332	88
Mudgeeraba	33	GC	26	10	26	10	26	10	26	10	26	10	26	10	26	10	26	10	26	10	26	10

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Murarie	110	M	490	110	496	111	513	115	511	115	507	114	523	117	532	119	538	121	545	122	548	123
Palmwoods	110 & 132	M	396	175	401	177	403	179	410	182	416	184	424	188	422	187	425	188	427	189	429	190
Redbank Plains	11	M	27	9	27	9	28	9	28	9	29	9	29	10	30	10	30	10	30	10	31	10
Richlands	33	M	131	35	131	35	131	35	130	35	131	35	131	35	130	34	129	34	129	34	130	34
Rocklea	110	M	177	70	177	70	177	70	177	70	178	71	179	71	178	71	178	70	178	70	178	71
Runcom	33	M	68	9	68	9	68	9	68	9	84	10	84	10	84	10	83	10	83	10	84	10
South Pine	110	M	925	149	933	150	940	151	939	151	945	152	952	153	947	153	946	153	948	153	950	153
Sumner	110	M	39	18	39	18	39	18	39	18	39	18	39	18	39	18	39	18	39	18	39	18
Tennyson	33	M	173	27	176	28	190	30	190	30	182	29	186	29	187	29	187	29	187	29	188	29
Wecker Road	33	M	133	22	134	22	134	22	134	22	119	20	120	20	119	20	118	20	119	20	119	20
Woolooga (Gympie)	132	M	232	20	233	20	234	20	234	20	236	21	237	21	236	21	236	21	236	21	237	21

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Abermain	110	M	69	24	69	24	69	24	69	24	69	24	69	24	68	23	68	23	68	23	68	23
Abermain	33	M	111	18	117	19	119	19	121	20	123	20	124	20	125	20	127	20	128	21	128	21
Algerster	33	M	66	16	66	16	66	16	65	16	65	16	65	16	64	16	64	16	63	16	63	16
Ashgrove West	110	M	111	17	111	17	112	17	113	17	116	17	118	18	118	18	120	18	121	18	122	18
Ashgrove West	33	M	79	9	79	9	79	9	79	9	79	9	79	9	78	9	78	9	78	9	77	9
Belmont	110	M	429	246	433	248	436	250	446	256	452	259	457	262	456	261	459	263	460	264	461	264
Blackstone (Raceview)	110	M	98	12	98	12	98	12	98	12	98	12	98	12	97	12	97	12	97	12	96	12
Bundamba	110	M	35	21	35	21	35	21	35	21	34	21	34	21	34	21	34	21	34	20	33	20
Goodna	33	M	120	15	122	15	123	15	124	15	125	15	127	16	127	16	128	16	129	16	130	16
Loganlea	110	M	364	141	366	142	367	142	369	143	370	144	371	144	368	143	368	143	367	142	366	142
Loganlea	33	M	97	17	97	17	97	17	97	17	97	16	96	16	95	16	95	16	94	16	94	16
Middle Ridge (Postmans Ridge and Gatton)	110	M	98	11	98	11	98	11	98	11	98	11	98	11	97	11	97	11	97	11	97	11
Molendinar	110	GC	514	66	523	67	527	67	527	67	527	67	526	67	522	67	522	67	519	66	517	66
Mudgeeraba	110	GC	322	85	321	85	321	85	321	85	321	85	320	85	318	84	317	84	316	84	314	83
Mudgeeraba	33	GC	25	9	25	9	25	9	25	9	25	9	25	9	25	9	25	9	25	9	25	9

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Murarie	110	M	482	108	486	109	502	113	501	112	494	111	505	113	513	115	519	116	523	117	525	118
Palmwoods	110 & 132	M	388	172	390	173	392	174	399	177	402	178	404	179	402	178	405	180	405	179	404	179
Redbank Plains	11	M	26	9	27	9	27	9	27	9	28	9	28	9	28	9	29	9	29	9	29	10
Richlands	33	M	128	34	128	34	127	34	127	34	126	33	125	33	124	33	123	33	123	33	122	32
Rocklea	110	M	174	68	173	68	172	68	172	68	173	68	172	68	170	67	170	67	169	67	168	67
Runcom	33	M	67	9	67	9	67	9	66	9	81	10	81	10	80	10	80	10	79	10	79	10
South Pine	110	M	907	146	912	147	916	148	916	148	916	148	914	147	907	146	907	146	903	146	901	145
Sumner	110	M	38	18	38	18	38	18	38	18	38	17	37	17	37	17	37	17	37	17	36	17
Tennyson	33	M	169	26	171	27	185	29	185	29	176	28	178	28	179	28	179	28	178	28	177	28
Wecker Road	33	M	131	22	130	22	130	22	130	21	115	19	114	19	113	19	113	19	112	19	112	18
Woolooga (Gympie)	132	M	227	20	228	20	228	20	228	20	228	20	228	20	226	20	226	20	225	20	225	20

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Abermain	110	M	67	23	67	23	67	23	66	23	66	23	66	23	65	22	65	22	64	22	64	22
Abermain	33	M	110	18	114	18	116	19	117	19	119	19	120	19	120	19	121	20	122	20	122	20
Algeria	33	M	65	16	64	16	64	16	63	16	62	15	62	15	61	15	60	15	59	15	59	15
Ashgrove West	110	M	109	16	109	16	108	16	109	16	111	17	113	17	113	17	113	17	114	17	114	17
Ashgrove West	33	M	78	9	77	9	76	9	76	9	76	9	75	9	75	9	74	9	73	8	73	8
Belmont	110	M	420	241	421	241	422	241	428	245	432	247	434	249	433	248	432	247	431	247	430	246
Blackstone (Raceview)	110	M	96	12	96	12	95	12	94	11	94	11	93	11	92	11	91	11	91	11	90	11
Bundamba	110	M	34	21	34	21	34	20	33	20	33	20	33	20	32	20	32	19	31	19	31	19
Goodna	33	M	117	14	118	14	119	15	119	15	120	15	120	15	121	15	121	15	121	15	122	15
Loganlea	110	M	356	138	357	138	355	138	355	138	355	138	353	137	350	136	347	135	345	134	343	133
Loganlea	33	M	95	16	94	16	94	16	93	16	92	16	91	16	90	15	89	15	89	15	88	15
Middle Ridge (Postmans Ridge and Gatton)	110	M	97	11	96	11	96	11	95	11	95	11	95	11	94	11	94	11	93	11	93	11
Molendinar	110	GC	503	64	508	65	509	65	506	65	504	64	500	64	496	63	491	63	487	62	483	62
Mudgeeraba	110	GC	316	84	313	83	311	82	309	82	308	81	306	81	303	80	300	80	298	79	296	78
Mudgeeraba	33	GC	25	9	25	9	24	9	24	9	24	9	24	9	24	9	23	9	23	9	23	9

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

Connection point	Voltage (kV)	Zone	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Murarie	110	M	475	106	476	107	490	110	487	109	478	107	487	109	494	111	497	111	499	112	499	112
Palmwoods	110 & 132	M	380	168	379	168	379	168	383	169	384	170	385	170	382	169	382	169	379	168	378	167
Redbank Plains	11	M	26	8	26	8	26	9	26	9	27	9	27	9	27	9	27	9	27	9	27	9
Richlands	33	M	125	33	124	33	123	33	122	32	121	32	119	32	118	31	116	31	115	31	114	30
Rocklea	110	M	170	67	169	66	167	66	166	66	165	65	164	65	162	64	160	63	159	63	158	62
Runcom	33	M	66	9	65	9	64	9	64	9	77	10	77	9	76	9	75	9	74	9	74	9
South Pine	110	M	890	144	889	143	888	143	884	142	880	142	874	141	867	140	860	139	853	138	849	137
Sumner	110	M	37	17	37	17	37	17	36	17	36	17	36	16	35	16	35	16	34	16	34	16
Tennyson	33	M	165	26	167	26	179	28	178	28	168	26	170	27	170	27	169	26	167	26	166	26
Wecker Road	33	M	128	21	127	21	126	21	125	21	110	18	109	18	107	18	106	18	105	17	104	17
Woolooga (Gympie)	132	M	223	19	222	19	221	19	220	19	219	19	218	19	216	19	214	19	212	19	211	18

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Abermain	110	M	56	21	56	21	56	22	57	22	57	22	58	22	59	22	59	23	60	23	62	24
Abermain	33	M	70	5	73	6	77	6	79	6	81	6	84	7	86	7	88	7	91	7	94	7
Algester	33	M	53	27	54	27	54	27	54	27	53	27	55	27	55	27	55	28	56	28	57	29
Ashgrove West	110	M	88	17	88	17	89	17	90	17	91	17	95	18	99	19	100	19	103	20	107	21
Ashgrove West	33	M	60	7	61	7	61	7	61	7	61	7	62	7	63	7	63	7	65	7	66	7
Belmont	110	M	299	48	301	49	305	49	308	50	313	51	326	53	335	54	339	55	348	56	361	58
Blackstone (Raceview)	110	M	67	12	67	12	67	12	68	12	67	12	69	13	70	13	70	13	73	13	74	13
Bundamba	110	M	29	16	29	16	30	16	30	16	29	16	30	16	30	17	30	17	31	17	32	17
Goodna	33	M	90	7	93	8	94	8	95	8	96	8	100	8	103	9	105	9	108	9	112	9
Loganlea	110	M	293	84	297	85	299	85	301	86	302	86	310	89	316	90	318	91	324	92	333	95
Loganlea	33	M	77	12	77	12	78	12	78	12	77	12	79	12	80	12	81	12	82	13	84	13
Middle Ridge (Postmans Ridge and Gatton)	110	M	53	10	54	10	54	10	54	10	54	10	55	10	55	10	55	10	56	10	57	10
Molendinar	110	GC	421	30	432	30	439	31	440	31	440	31	452	32	458	32	462	33	470	33	484	34
Mudgeeraba	110	GC	251	67	252	68	254	68	254	68	253	68	259	69	263	70	264	71	269	72	275	74
Mudgeeraba	33	GC	18	6	18	6	18	6	18	6	18	6	19	6	19	6	19	6	19	6	20	6

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Murarie	110	M	365	76	370	77	374	78	386	81	378	79	393	82	406	85	415	87	425	89	435	91
Palmwoods	110 & 132	M	302	120	309	122	312	124	314	125	320	127	332	132	340	135	343	136	353	140	365	145
Redbank Plains	11	M	18	4	18	4	18	4	19	4	19	4	20	4	20	4	21	4	21	5	22	5
Richlands	33	M	101	17	102	17	102	17	102	17	101	17	104	17	105	17	105	17	107	18	110	18
Rocklea	110	M	111	28	110	28	110	28	111	28	111	28	114	29	115	29	115	29	117	30	120	31
Runcom	33	M	60	10	60	10	60	11	60	11	59	10	75	13	76	13	76	13	77	13	79	14
South Pine	110	M	704	93	712	94	720	95	720	95	721	95	737	97	746	98	750	99	763	100	782	103
Sumner	110	M	25	8	25	8	25	8	25	8	25	8	26	8	26	8	26	8	26	8	27	8
Tennyson	33	M	137	13	141	13	145	13	155	14	145	13	150	14	155	14	158	15	161	15	165	15
Wecker Road	33	M	94	9	94	9	95	9	95	9	94	9	84	8	85	8	85	8	87	9	89	9
Woolooga (Gympie)	132	M	228	12	230	12	232	12	233	12	233	12	238	13	241	13	242	13	247	13	254	13

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Abermain	110	M	54	21	54	21	54	21	54	21	54	21	55	21	55	21	55	21	55	21	56	21
Abermain	33	M	69	5	70	6	75	6	76	6	78	6	80	6	81	6	83	6	84	7	87	7
Algester	33	M	52	26	51	26	51	26	51	25	51	25	51	26	51	25	51	25	51	25	51	26
Ashgrove West	110	M	86	17	85	16	85	16	86	17	86	17	90	17	92	18	93	18	95	18	97	19
Ashgrove West	33	M	59	6	58	6	58	6	58	6	58	6	59	6	59	6	59	6	59	6	60	6
Belmont	110	M	290	47	289	47	291	47	292	47	297	48	306	49	309	50	311	50	316	51	322	52
Blackstone (Raceview)	110	M	65	12	64	12	64	12	64	12	64	12	65	12	65	12	65	12	66	12	66	12
Bundamba	110	M	28	16	28	15	28	15	28	15	28	15	28	15	28	15	28	15	28	15	28	15
Goodna	33	M	87	7	89	7	90	7	90	7	91	8	94	8	95	8	96	8	98	8	100	8
Loganlea	110	M	285	81	285	81	285	81	286	82	287	82	292	83	293	83	293	84	295	84	299	85
Loganlea	33	M	75	12	74	11	74	11	74	11	73	11	74	12	74	11	74	11	74	12	75	12
Middle Ridge (Postmans Ridge and Gatton)	110	M	53	10	52	9	52	9	52	9	52	9	53	10	53	10	53	10	53	10	53	10
Molendinar	110	GC	409	29	414	29	418	29	418	29	417	29	424	30	423	30	424	30	427	30	432	30
Mudgeeraba	110	GC	245	66	243	65	243	65	243	65	242	65	245	66	245	66	245	66	246	66	249	67
Mudgeeraba	33	GC	18	6	18	6	18	6	18	6	17	5	18	6	18	6	18	6	18	6	18	6

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Murarie	110	M	358	75	360	75	362	76	373	78	365	76	376	79	385	80	391	82	397	83	402	84
Palmwoods	110 & 132	M	293	116	296	118	297	118	298	118	304	121	312	124	314	125	315	125	320	127	325	129
Redbank Plains	11	M	17	4	17	4	18	4	18	4	18	4	18	4	19	4	19	4	19	4	20	4
Richlands	33	M	98	16	98	16	97	16	97	16	96	16	97	16	97	16	96	16	97	16	98	16
Rocklea	110	M	108	27	106	27	106	27	105	27	105	27	107	27	106	27	106	27	107	27	108	27
Runcom	33	M	58	10	58	10	58	10	58	10	56	10	70	12	70	12	70	12	71	12	71	12
South Pine	110	M	686	90	687	90	691	91	689	91	690	91	698	92	697	92	697	92	702	92	709	93
Sumner	110	M	24	7	24	7	24	7	24	7	24	7	24	7	24	7	24	7	24	7	24	7
Tennyson	33	M	133	12	136	13	138	13	148	14	138	13	141	13	144	13	146	13	147	14	149	14
Wecker Road	33	M	91	9	90	9	90	9	90	9	90	9	78	8	78	8	78	8	79	8	80	8
Woolooga (Gympie)	132	M	222	12	222	12	222	12	222	12	222	12	225	12	225	12	225	12	226	12	229	12

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Abermain	110	M	53	20	53	20	52	20	52	20	52	20	52	20	52	20	52	20	52	20	52	20
Abermain	33	M	67	5	69	5	73	6	74	6	75	6	77	6	78	6	79	6	81	6	82	6
Algester	33	M	51	25	50	25	49	25	49	24	48	24	48	24	48	24	48	24	48	24	48	24
Ashgrove West	110	M	84	16	83	16	82	16	82	16	83	16	86	16	87	17	88	17	89	17	91	17
Ashgrove West	33	M	58	6	57	6	57	6	56	6	56	6	56	6	56	6	56	6	56	6	56	6
Belmont	110	M	284	46	280	45	280	45	280	45	283	46	290	47	292	47	293	47	296	48	298	48
Blackstone (Raceview)	110	M	63	12	62	11	62	11	61	11	61	11	61	11	61	11	61	11	62	11	61	11
Bundamba	110	M	28	15	27	15	27	15	27	15	27	14	27	15	26	14	26	14	26	14	26	14
Goodna	33	M	85	7	86	7	86	7	87	7	87	7	89	7	90	7	90	7	92	8	93	8
Loganlea	110	M	279	80	278	79	276	79	275	78	274	78	278	79	277	79	277	79	278	79	279	79
Loganlea	33	M	73	11	72	11	71	11	71	11	70	11	70	11	70	11	70	11	70	11	70	11
Middle Ridge (Postmans Ridge and Gatton)	110	M	52	9	52	9	51	9	51	9	51	9	51	9	51	9	51	9	51	9	51	9
Molendinar	110	GC	400	28	402	28	402	28	400	28	397	28	402	28	400	28	399	28	400	28	401	28
Mudgeeraba	110	GC	240	64	237	64	235	63	233	63	232	62	234	63	233	62	232	62	233	62	233	62
Mudgeeraba	33	GC	17	5	17	5	17	5	17	5	17	5	17	5	17	5	17	5	17	5	17	5

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

Connection point	Voltage (kV)	Zone	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
			MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Murarie	110	M	353	74	353	74	354	74	363	76	353	74	363	76	371	78	376	79	380	80	382	80
Palmwoods	110 & 132	M	286	114	288	114	286	114	286	113	289	115	296	117	297	118	297	118	300	119	302	120
Redbank Plains	11	M	17	4	17	4	17	4	17	4	17	4	18	4	18	4	18	4	18	4	18	4
Richlands	33	M	96	16	95	16	94	15	93	15	91	15	92	15	91	15	91	15	91	15	91	15
Rocklea	110	M	106	27	104	26	102	26	101	26	101	26	102	26	101	26	100	25	101	25	101	26
Runcom	33	M	57	10	56	10	56	10	55	10	53	9	67	12	67	12	66	12	66	12	67	12
South Pine	110	M	673	89	670	88	669	88	664	87	662	87	667	88	664	87	663	87	665	87	666	88
Sumner	110	M	24	7	23	7	23	7	23	7	23	7	23	7	23	7	22	7	22	7	22	7
Tennyson	33	M	130	12	132	12	133	12	142	13	131	12	134	12	136	13	138	13	138	13	138	13
Wecker Road	33	M	89	9	88	9	87	9	86	9	85	8	74	7	74	7	74	7	74	7	74	7
Woolooga (Gympie)	132	M	218	11	216	11	215	11	214	11	213	11	215	11	214	11	213	11	214	11	214	11

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

Connection point (1)	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Transmission connected industrial loads (2)	1145	374	1141	372	1141	372	1141	372	1142	372	1142	372	1142	372	1142	372	1142	372	1142	372
Transmission connected mining loads (3)	69	28	57	18	55	16	55	16	55	16	57	17	107	28	108	29	112	30	112	30
Transmission connected LNG loads (4)	845	110	864	114	912	125	919	128	899	126	893	125	863	120	823	114	794	111	763	106
Transmission connected rail supply substations (5)(6)	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255

Notes:

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA_r) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:
Ross zone – Townsville Nickel, Sun Metals and Invicta Mill
Gladstone zone – RTA, QAL and BSL.
- (3) Mining loads include:
North zone – North Goonyella, Goonyella Riverside and Eagle Downs.
- (4) LNG loads include:
Bulli zone – Kumbarella Park
Surat zone – Wandoan South, Orana and Columboola.
- (5) Rail supply substations include:
North zone – Mackay Ports, Oonooie, Bolingbroke, Wandoo, Mindi, Coppabella, Wotonga, Peak Downs and Mt McLaren
Central West zone – Norwich Park, Gregory, Blackwater, Bluff, Wycarbah, Duaringa, Grantleigh and Raglan
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_r) co-incident peak is significantly lower.

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

Connection point (1)	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Transmission connected industrial loads (2)	1145	374	1141	372	1141	371	1141	371	1142	372	1142	372	1142	372	1142	372	1142	372	1142	372
Transmission connected mining loads (3)	69	28	57	18	55	16	55	16	55	16	55	16	55	16	55	16	65	19	65	19
Transmission connected LNG loads (4)	787	103	820	108	857	117	860	118	828	115	808	114	769	109	739	104	700	101	657	97
Transmission connected rail supply substations (5)(6)	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255

Notes:

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA_r) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:
Ross zone – Townsville Nickel, Sun Metals and Invicta Mill
Gladstone zone – RTA, QAL and BSL.
- (3) Mining loads include:
North zone – North Goonyella, Goonyella Riverside and Eagle Downs.
- (4) LNG loads include:
Bulli zone – Kumbarilla Park
Surat zone – Wandoan South, Orana and Columboola.
- (5) Rail supply substations include:
North zone – Mackay Ports, Oonooie, Bolingbroke, Wandoo, Mindi, Coppabella, Wotonga, Peak Downs and Mt McLaren
Central West zone – Norwich Park, Gregory, Blackwater, Bluff, Wycarbah, Duaringa, Grantleigh and Raglan
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_r) co-incident 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)	2018/19		2019/20		2020/21		2021/22		2022/23		2023/24		2024/25		2025/26		2026/27		2027/28	
	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Transmission connected industrial loads (2)	1139	370	1129	365	1123	361	1117	358	1112	355	1106	352	1101	349	1095	345	1089	342	1084	339
Transmission connected mining loads (3)	69	28	56	17	54	16	54	16	54	16	54	16	53	16	53	16	61	18	61	17
Transmission connected LNG loads (4)	782	103	807	106	828	112	824	112	793	109	769	107	729	102	698	98	658	95	616	90
Transmission connected rail supply substations (5)(6)	255	-253	254	-252	253	-251	251	-250	250	-248	249	-247	248	-246	246	-244	245	-243	244	-242

Notes:

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA_r) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:
Ross zone – Townsville Nickel, Sun Metals and Invicta Mill
Gladstone zone – RTA, QAL and BSL.
- (3) Mining loads include:
North zone –North Goonyella, Goonyella Riverside and Eagle Downs.
- (4) LNG loads include:
Bulli zone – Kumbarilla Park
Surat zone – Wandoan South, Orana and Columboola.
- (5) Rail supply substations include:
North zone – Mackay Ports, Oonooie, Bolingbroke, Wandoo, Mindi, Coppabella, Wotonga, Peak Downs and Mt McLaren
Central West zone – Norwich Park, Gregory, Blackwater, Bluff, Wycarbah, Duaringa, Grantleigh and Raglan
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_r) co-incident peak is significantly lower.

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

Connection point (1)	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Transmission connected industrial loads (2)	1153	381	1153	381	1149	378	1150	379	1151	379	1151	379	1151	379	1151	379	1151	379	1151	379
Transmission connected mining loads (3)	65	24	53	14	52	13	52	13	52	13	54	14	81	20	104	26	108	27	108	27
Transmission connected LNG loads (4)	837	109	864	113	875	117	920	128	907	126	898	125	877	122	842	117	802	112	773	108
Transmission connected rail supply substations (5)(6)	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255

Notes:

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA_r) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:
Ross zone – Townsville Nickel, Sun Metals and Invicta Mill
Gladstone zone – RTA, QAL and BSL.
- (3) Mining loads include:
North zone –North Goonyella, Goonyella Riverside and Eagle Downs.
- (4) LNG loads include:
Bulli zone – Kumbarilla Park
Surat zone – Wandoan South, Orana and Columboola.
- (5) Rail supply substations include:
North zone – Mackay Ports, Oonooie, Bolingbroke, Wandoo, Mindi, Coppabella, Wotonga, Peak Downs and Mt McLaren
Central West zone – Norwich Park, Gregory, Blackwater, Bluff, Wycarbah, Duaringa, Grantleigh and Raglan
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_r) co-incident peak is significantly lower.

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

Connection point (1)	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
	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)	1152	380	1152	380	1148	378	1149	378	1150	379	1150	379	1150	379	1150	379	1150	379	1150	379
Transmission connected mining loads (3)	65	24	53	14	52	13	52	13	52	13	52	13	52	13	52	13	62	16	62	16
Transmission connected LNG loads (4)	790	103	831	109	837	112	855	117	840	116	818	114	790	111	752	107	704	101	675	99
Transmission connected rail supply substations (5)(6)	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255	257	-255

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 – Townsville Nickel, Sun Metals and Invicta Mill
Gladstone zone – RTA, QAL and BSL.
- (3) Mining loads include:
North zone –North Goonyella, Goonyella Riverside and Eagle Downs.
- (4) LNG loads include:
Bulli zone – Kumberilla Park
Surat zone – Wandoan South, Orana and Columboola.
- (5) Rail supply substations include:
North zone – Mackay Ports, Oonooie, Bolingbroke, Wandoo, Mindi, Coppabella, Wotonga, Peak Downs and Mt McLaren
Central West zone – Norwich Park, Gregory, Blackwater, Bluff, Wycarbah, Duaringa, Grantleigh and Raglan
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) co-incident peak is significantly lower.

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

Connection point (1)	2018		2019		2020		2021		2022		2023		2024		2025		2026		2027	
	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r	MW	MVA _r
Transmission connected industrial loads (2)	1146	377	1140	373	1130	367	1125	365	1120	362	1114	358	1108	355	1103	352	1097	349	1091	345
Transmission connected mining loads (3)	64	24	52	14	51	13	51	13	51	13	50	13	50	13	50	13	58	15	58	15
Transmission connected LNG loads (4)	785	102	817	107	810	107	820	111	804	110	778	108	749	104	710	100	662	95	633	92
Transmission connected rail supply substations (5)(6)	255	-253	254	-252	253	-251	251	-250	250	-248	249	-247	248	-246	246	-244	245	-243	244	-242

Notes:

- (1) Transmission connected customers supply 10-year active power (MW) forecasts. The reactive power (MVA_r) forecasts are calculated based on historical power factors at each connection point.
- (2) Industrial loads include:
Ross zone – Townsville Nickel, Sun Metals and Invicta Mill
Gladstone zone – RTA, QAL and BSL.
- (3) Mining loads include:
North zone – North Goonyella, Goonyella Riverside and Eagle Downs.
- (4) LNG loads include:
Bulli zone – Kumbarella Park
Surat zone – Wandoan South, Orana and Columboola.
- (5) Rail supply substations include:
North zone – Mackay Ports, Oonooie, Bolingbroke, Wandoo, Mindi, Coppabella, Wotonga, Peak Downs and Mt McLaren
Central West zone – Norwich Park, Gregory, Blackwater, Bluff, Wycarbah, Duaringa, Grantleigh and Raglan
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_r) co-incident peak is significantly lower.