Forecast of connection point maximum demands

Customer forecasts of connection point peaks

Tables E.1 to E.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 D.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 E.1 to E.18 the zones in which connection points are located are abbreviated as follows:

FN	Far North zone
R	Ross zone
NW	North West 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 E.1 Ergon connection point forecast of summer low growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Alan Sherriff	132	R	31	5	31	5	30	5	30	5	29	5	29	5	29	5	29	5	29	5	29	5
Alligator Creek	132	N	40	11	40	11	39	11	39	11	39	11	39	11	38	11	38	11	38	11	38	11
Alligator Creek	33	N	29	7	29	7	29	6	28	6	28	6	28	6	28	6	28	6	28	6	27	6
Biloela	66	CW	35	-2	35	-2	34	-2	34	-2	33	-2	33	-2	33	-2	32	-3	32	-3	31	-3
Blackwater	132	CW	26	-8	26	-8	25	-9	25	-9	25	-9	24	-9	24	-9	24	-9	24	-9	23	-9
Blackwater	66	CW	105	12	104	12	103	12	102	12	101	12	100	12	100	12	99	12	98	12	97	12
Bowen North	66	N	32	6	32	6	31	6	31	6	31	6	30	6	30	6	30	6	30	6	30	6
Bulli Creek	132	B	21	-5	21	-5	21	-5	21	-6	21	-6	20	-6	20	-6	20	-6	20	-6	20	-6
Calliope River	66	G	61	-1	61	-1	61	-1	60	-1	60	-1	60	-1	60	-1	60	-1	59	-1	59	-1
Cardwell	22	R	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1
Chinchilla	33	S	23	4	23	4	23	4	22	4	22	3	22	3	22	3	22	3	22	3	22	3
Clare South	66	R	67	18	66	18	80	24	77	23	76	22	74	21	72	20	71	20	70	19	68	19
Collinsville North	33	N	17	-6	17	-6	16	-5	16	-5	16	-5	16	-5	16	-5	16	-4	16	-4	15	-4
Columboola	66	S	61	-11	59	-11	57	-12	55	-13	54	-13	52	-14	51	-14	49	-15	48	-15	47	-15
Dan Gleeson	66	R	89	3	88	3	87	3	87	3	86	3	85	3	84	3	84	3	83	3	83	3
Dysart	66	CW	46	8	46	8	52	8	60	8	59	8	59	8	58	8	58	8	58	8	57	8
Edmonton	22	FN	53	-6	54	-6	55	-6	57	-6	58	-6	60	-6	62	-6	64	-6	66	-7	68	-7
Egans Hill	66	CW	62	7	61	7	60	7	60	7	59	7	59	7	59	7	59	7	59	7	59	7
El Arish	22	FN	7	0	7	0	7	0	7	0	7	0	7	0	6	0	6	0	6	0	6	0
Garbutt	66	R	79	5	80	5	79	5	79	5	79	5	79	5	80	5	81	5	81	5	82	5
Gin Gin	132	WB	184	11	183	11	185	12	184	11	183	11	182	11	181	10	180	10	180	10	179	10
Gladstone South	66	G	45	15	45	15	44	15	44	15	44	15	43	14	43	14	43	14	43	14	42	14
Ingham	66	R	21	-1	21	-1	20	-1	20	-1	20	-1	19	-1	19	-1	19	-1	19	-1	18	-1
Innisfail	22	FN	30	1	30	1	29	1	28	2	28	2	27	2	27	2	27	2	26	2	26	2
Kamerunga	22	FN	67	0	67	0	66	0	66	0	67	0	67	0	67	0	67	0	68	0	68	0
Kemmis	66	N	36	4	36	4	36	4	35	4	35	4	35	4	35	4	34	4	34	5	34	5
King Creek	132	N	9	2	9	2	9	2	9	2	9	2	9	2	8	2	8	2	8	2	8	2
Lilyvale	132	CW	35	-11	34	-11	33	-11	33	-11	32	-11	32	-11	31	-11	31	-12	31	-12	30	-12

Table E.1 Ergon connection point forecast of summer low growth delivered maximum demand *(continued)*

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Lilyvale	66	CW	130	42	129	42	127	41	125	41	124	41	123	41	121	41	120	41	119	40	118	40
Mackay	33	N	98	0	97	0	95	0	93	1	92	1	91	1	90	1	90	1	89	1	89	1
Middle Ridge	110	SW	257	32	257	32	259	33	259	33	257	32	256	32	255	32	254	31	253	31	252	31
Moranbah	11	N	25	3	25	3	25	3	25	3	24	3	24	3	24	3	24	3	24	3	24	3
Moranbah	132	N	52	19	52	19	51	19	55	21	59	23	58	23	58	23	58	22	57	22	57	22
Moranbah	66	N	102	46	102	46	101	46	100	45	99	45	99	45	98	45	98	44	97	44	96	44
Moura	66	CW	67	25	67	25	66	25	66	24	65	24	65	24	64	24	64	24	63	23	63	23
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	27	3	27	3	27	3	26	3	26	3	26	3	26	3	26	3	26	3	25	3
Oakey	110	SW	23	7	23	7	23	7	22	6	22	6	22	6	22	6	22	6	22	6	21	6
Pandoin	66	CW	46	-1	46	-1	46	-1	46	-1	46	-1	45	-1	45	-1	45	-1	45	-1	45	-1
Pioneer Valley	66	N	54	3	53	3	52	3	50	2	49	2	49	2	49	2	49	2	49	2	49	2
Proserpine	66	N	55	5	55	5	55	5	54	5	54	5	54	5	54	5	54	4	53	4	53	4
Rockhampton	66	CW	107	6	107	6	107	6	107	6	107	6	107	6	107	6	108	6	108	6	108	6
Ross	132	R	48	-6	45	-7	44	-8	43	-8	43	-9	42	-9	41	-9	41	-9	40	-10	39	-10
Stony Creek	132	N	3	-1	3	-1	3	-1	3	-1	3	-1	3	-1	3	-1	3	-1	3	-1	3	-1
Tangkam	110	SW	29	3	29	3	28	2	27	2	27	2	26	2	26	2	26	2	25	2	25	1
Tarong	66	SW	54	11	53	11	53	11	52	11	52	11	51	11	51	10	51	10	50	10	50	10
Teebar Creek	132	WB	151	46	151	46	149	45	148	44	147	44	146	43	146	43	145	43	144	42	144	42
Townsville East	66	R	35	12	35	11	34	11	33	11	33	11	33	11	32	11	32	11	32	10	31	10
Townsville South	66	R	79	12	79	12	78	12	78	12	78	12	77	12	77	12	78	12	78	12	78	12
Tully	22	R	15	1	15	0	15	0	15	0	15	0	15	0	14	0	14	0	14	0	14	0
Turkinje	132	FN	27	-14	27	-15	27	-15	26	-15	26	-15	26	-15	26	-15	26	-15	26	-15	25	-15
Turkinje	66	FN	69	0	69	0	67	0	66	0	65	-1	65	-1	64	-1	64	-1	63	-1	63	-1
Woolooga	132	WB	17	-7	17	-7	17	-6	16	-6	16	-6	16	-6	16	-6	16	-6	16	-6	15	-6
Woree	132	FN	161	6	160	6	157	5	155	5	153	5	152	4	151	4	151	4	151	4	151	4
Yarwun	132	G	51	22	51	21	58	25	58	25	58	25	58	25	58	25	58	25	58	25	57	25

Table E.2 Ergon connection point forecast of summer central growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Alan Sherriff	132	R	31	5	31	5	31	5	31	5	31	5	31	5	31	5	31	5	31	5	31	5
Alligator Creek	132	N	40	12	41	12	41	12	41	12	41	12	41	12	41	12	41	12	41	12	41	12
Alligator Creek	33	N	30	7	30	7	30	7	29	7	29	7	29	7	29	7	29	7	29	7	29	7
Biloela	66	CW	35	-2	35	-2	35	-2	35	-2	35	-2	34	-2	34	-2	34	-2	34	-2	34	-2
Blackwater	132	CW	26	-8	26	-8	26	-8	26	-8	26	-8	26	-8	26	-8	26	-8	25	-8	25	-8
Blackwater	66	CW	105	12	106	12	106	12	106	12	106	12	106	12	106	12	106	12	105	12	105	12
Bowen North	66	N	32	6	32	6	32	6	32	6	32	6	32	6	32	6	32	6	32	6	32	6
Bulli Creek	132	B	21	-5	21	-5	21	-5	21	-5	21	-5	21	-5	21	-5	21	-5	21	-5	21	-5
Calliope River	66	G	62	-1	62	-1	62	-1	63	-1	63	-1	63	-1	64	-1	64	-1	64	-1	64	-1
Cardwell	22	R	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1
Chinchilla	33	S	23	4	23	4	23	4	23	4	23	4	23	4	23	4	23	4	23	4	23	4
Clare South	66	R	67	18	67	18	81	24	79	23	78	23	77	22	76	22	75	21	74	21	73	21
Collinsville North	33	N	17	-6	17	-6	17	-6	17	-6	17	-6	17	-6	17	-6	17	-6	17	-6	17	-6
Columboola	66	S	61	-11	60	-11	59	-12	57	-12	56	-12	55	-13	54	-13	53	-13	52	-14	51	-14
Dan Gleeson	66	R	89	3	89	3	90	3	90	3	90	3	91	3	91	3	91	3	92	3	92	3
Dysart	66	CW	46	8	47	8	53	8	61	8	61	8	61	8	61	8	61	8	61	8	61	8
Edmonton	22	FN	53	-6	55	-6	57	-6	59	-6	61	-6	63	-6	66	-6	68	-7	71	-7	74	-7
Egans Hill	66	CW	62	7	62	7	62	7	62	7	62	7	62	7	63	7	63	7	64	7	64	7
El Arish	22	FN	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0
Garbutt	66	R	80	5	82	5	82	5	84	5	85	5	86	5	87	5	89	5	91	5	93	6
Gin Gin	132	WB	184	11	185	11	189	13	190	13	191	13	191	13	191	14	192	14	192	14	193	14
Gladstone South	66	G	45	15	46	15	46	15	46	15	46	15	46	15	46	15	46	15	46	15	46	15
Ingham	66	R	21	-1	21	-1	21	-1	21	-1	20	-1	20	-1	20	-1	20	-1	20	-1	20	-1
Innisfail	22	FN	30	1	30	1	30	1	29	1	29	1	29	1	28	2	28	2	28	2	28	2
Kamerunga	22	FN	67	0	68	0	68	0	69	0	70	1	71	1	72	1	73	1	74	1	75	2
Kemmis	66	N	37	4	37	4	37	4	37	4	37	4	37	4	37	4	37	4	37	4	37	4
King Creek	132	N	9	2	9	2	9	2	9	2	9	2	9	2	9	2	9	2	9	2	9	2
Lilyvale	132	CW	35	-11	35	-11	34	-11	34	-11	34	-11	34	-11	34	-11	33	-11	33	-11	33	-11

Table E.2 Ergon connection point forecast of summer central growth delivered maximum demand *(continued)*

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Lilyvale	66	CW	130	42	130	42	130	42	130	42	130	42	130	42	130	42	130	42	130	42	130	42
Mackay	33	N	98	0	98	0	97	0	96	0	96	0	96	0	96	0	96	0	96	0	97	0
Middle Ridge	110	SW	258	32	261	33	265	35	267	35	268	35	269	36	270	36	271	36	272	37	273	37
Moranbah	11	N	25	3	25	3	25	3	25	3	26	3	26	3	26	3	26	3	26	3	26	3
Moranbah	132	N	53	19	53	20	53	20	57	22	61	24	61	24	61	24	61	24	61	24	61	24
Moranbah	66	N	102	46	103	47	104	47	104	47	104	47	104	47	105	47	105	47	105	47	105	47
Moura	66	CW	67	25	68	26	68	26	68	26	68	26	68	26	68	26	68	26	68	26	68	26
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	27	3	27	3	27	3	27	3	27	3	27	3	27	3	28	3	28	3	28	3
Oakey	110	SW	23	7	23	7	23	7	23	7	23	7	23	7	23	7	23	7	23	7	23	7
Pandoin	66	CW	47	-1	47	-1	47	-1	47	-1	48	-1	48	-1	48	0	48	0	49	0	49	0
Pioneer Valley	66	N	54	3	54	3	53	3	53	3	53	3	53	3	54	3	54	3	55	4	56	4
Proserpine	66	N	55	5	55	5	55	5	56	5	56	5	56	5	56	5	56	5	57	5	57	5
Rockhampton	66	CW	107	6	108	6	109	6	110	7	111	7	112	7	113	7	114	7	116	7	117	7
Ross	132	R	48	-6	45	-7	45	-7	44	-8	44	-8	44	-8	44	-8	43	-8	43	-8	43	-8
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	29	3	29	3	29	3	28	3	28	2	28	2	28	2	27	2	27	2	27	2
Tarong	66	SW	54	11	54	11	54	11	54	11	54	11	54	11	54	11	54	12	54	12	54	11
Teebar Creek	132	WB	152	46	153	47	153	47	154	47	154	47	154	47	155	47	155	48	155	48	156	48
Townsville East	66	R	35	11	35	12	35	11	35	11	35	11	35	11	35	11	35	11	35	11	35	11
Townsville South	66	R	79	12	80	13	81	13	81	13	82	13	83	13	84	14	85	14	86	14	87	15
Tully	22	R	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	0	15	0
Turkinje	132	FN	27	-14	27	-14	27	-14	27	-14	27	-14	27	-14	27	-14	27	-14	27	-14	27	-14
Turkinje	66	FN	69	0	69	0	69	0	68	0	68	0	68	0	68	0	68	0	67	0	67	0
Woolooga	132	WB	17	-7	17	-7	17	-7	17	-7	17	-7	17	-7	17	-7	17	-6	17	-6	16	-6
Woree	132	FN	161	6	162	6	161	6	161	6	161	6	161	6	162	6	163	6	164	6	165	6
Yarwun	132	G	51	21	51	22	60	26	60	26	60	26	61	26	61	26	61	26	61	27	62	27

Table E.3 Ergon connection point forecast of summer high growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Alan Sherriff	132	R	31	5	32	5	32	5	32	6	32	6	33	6	33	6	33	6	34	6	34	6
Alligator Creek	132	N	40	11	41	12	42	12	43	12	43	13	44	13	44	13	45	13	45	13	45	13
Alligator Creek	33	N	30	7	30	7	30	7	31	7	31	7	31	7	31	7	31	7	32	8	32	8
Biloela	66	CW	35	-2	36	-2	36	-2	36	-1	36	-1	37	-1	37	-1	37	-1	37	-1	37	-1
Blackwater	132	CW	26	-8	26	-8	27	-8	27	-8	27	-8	27	-8	28	-8	28	-8	28	-8	28	-8
Blackwater	66	CW	105	12	107	12	109	13	110	13	111	13	112	13	113	13	114	13	115	13	116	13
Bowen North	66	N	32	6	33	6	33	7	33	7	33	7	33	7	34	7	34	7	34	7	35	7
Bulli Creek	132	B	21	-5	21	-5	22	-5	22	-5	22	-5	22	-5	22	-5	22	-5	22	-5	23	-5
Calliope River	66	G	62	-1	63	-1	64	-1	65	-1	66	0	67	0	68	0	69	0	70	0	71	0
Cardwell	22	R	5	1	5	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1
Chinchilla	33	S	23	4	23	4	24	4	24	4	24	4	24	4	25	4	25	4	25	4	25	5
Clare South	66	R	67	18	68	19	84	25	83	25	83	25	82	25	81	24	81	24	80	24	80	24
Collinsville North	33	N	17	-6	17	-6	17	-7	17	-7	18	-7	18	-7	18	-7	18	-8	18	-8	18	-8
Columboola	66	S	61	-11	61	-11	61	-11	60	-11	60	-11	59	-11	59	-12	58	-12	58	-12	57	-12
Dan Gleeson	66	R	89	3	91	3	93	3	95	3	96	3	98	3	99	3	100	3	101	3	103	3
Dysart	66	CW	47	8	47	8	55	8	63	8	63	8	64	8	64	8	65	8	65	8	65	8
Edmonton	22	FN	53	-6	56	-6	58	-6	61	-6	64	-6	67	-7	70	-7	73	-7	76	-7	80	-7
Egans Hill	66	CW	62	7	63	7	64	7	65	7	66	7	66	7	67	7	68	7	69	7	70	7
El Arish	22	FN	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0
Garbutt	66	R	80	5	84	5	86	5	89	5	91	5	93	6	96	6	99	6	101	6	105	6
Gin Gin	132	WB	184	11	188	12	195	15	198	16	199	16	201	17	203	17	204	18	206	19	208	19
Gladstone South	66	G	45	15	46	15	47	15	47	15	48	16	48	16	48	16	49	16	49	16	50	16
Ingham	66	R	21	-1	21	-1	21	-1	21	-1	21	-1	21	-1	21	-1	22	-1	21	-1	21	-1
Innisfail	22	FN	30	1	31	1	30	1	30	1	30	1	30	1	30	1	31	1	31	1	32	1
Kamerunga	22	FN	68	0	69	0	71	1	72	1	74	1	76	2	78	2	80	2	82	3	84	3
Kemmis	66	N	37	4	37	4	38	3	38	3	38	3	39	3	39	3	40	3	40	3	40	3
King Creek	132	N	9	2	9	3	9	3	9	3	9	3	10	3	10	3	10	3	10	3	10	3
Lilyvale	132	CW	35	-11	35	-11	35	-11	36	-11	36	-11	36	-11	36	-11	36	-11	36	-11	36	-11

Table E.3 Ergon connection point forecast of summer high growth delivered maximum demand *(continued)*

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Lilyvale	66	CW	130	42	133	42	135	43	137	43	138	43	140	43	141	44	142	44	143	44	144	44
Mackay	33	N	98	0	101	-1	101	-1	101	-1	102	-1	103	-1	104	-1	105	-2	107	-2	109	-2
Middle Ridge	110	SW	259	33	266	35	274	37	279	39	282	40	285	41	288	41	291	42	294	43	297	44
Moranbah	11	N	25	3	26	3	26	3	27	3	27	3	27	3	27	3	28	3	28	3	28	3
Moranbah	132	N	52	19	53	20	54	20	59	23	63	26	64	26	64	26	65	27	65	27	66	27
Moranbah	66	N	102	46	105	47	107	48	109	48	110	49	111	50	113	50	114	50	115	51	115	51
Moura	66	CW	67	25	69	26	70	27	71	27	72	28	73	28	74	28	74	29	75	29	75	29
Nebo	11	N	3	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0
Newlands	66	N	27	3	28	3	28	3	29	3	29	3	29	4	30	4	30	4	30	4	30	4
Oakey	110	SW	23	7	24	7	24	7	24	7	25	8	25	8	25	8	25	8	25	8	25	8
Pandoin	66	CW	47	-1	48	-1	48	0	49	0	50	0	51	0	51	0	52	0	53	0	53	0
Pioneer Valley	66	N	54	3	56	4	56	4	56	4	57	4	58	4	59	5	60	5	62	6	64	6
Proserpine	66	N	55	5	57	5	57	5	58	5	58	5	59	5	59	6	60	6	61	6	61	6
Rockhampton	66	CW	107	6	110	7	113	7	115	7	117	7	119	7	121	7	123	8	125	8	127	8
Ross	132	R	48	-6	46	-7	46	-7	46	-7	47	-7	47	-7	47	-6	47	-6	47	-6	47	-6
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	29	3	30	3	30	3	30	3	30	3	30	3	30	3	30	3	30	3	30	3
Tarong	66	SW	54	11	55	12	55	12	56	12	56	13	57	13	57	13	58	13	58	13	58	13
Teebar Creek	132	WB	152	46	155	48	158	49	159	50	161	51	162	51	163	52	165	53	166	53	168	54
Townsville East	66	R	35	11	36	12	36	12	37	12	37	12	37	12	38	12	38	12	39	13	39	13
Townsville South	66	R	80	12	82	13	84	14	86	14	88	15	89	16	91	16	93	17	95	17	97	18
Tully	22	R	15	1	15	1	15	1	15	1	16	1	16	1	16	1	16	1	16	1	16	1
Turkinje	132	FN	27	-14	28	-14	28	-14	28	-14	29	-14	29	-14	29	-14	29	-14	29	-14	29	-14
Turkinje	66	FN	69	0	70	0	71	0	71	0	71	0	71	0	71	1	72	1	72	1	72	1
Woolooga	132	WB	17	-7	17	-7	17	-7	17	-7	17	-7	17	-7	17	-7	18	-7	18	-7	18	-7
Woree	132	FN	161	6	165	6	167	6	168	7	170	7	172	7	174	7	176	8	178	8	181	8
Yarwun	132	G	51	22	52	22	61	26	62	27	63	27	64	28	65	28	65	29	66	29	67	29

Table E.4 Ergon connection point forecast of winter low growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026		2027		2028		2029		2030		2031		2032		2033		2034		2035	
			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	18	2	18	2	18	2	18	2	18	2	18	2	18	2	18	2	18	2
Alligator Creek	132	N	38	11	38	11	38	11	37	10	37	10	37	10	37	10	36	10	36	10	36	10
Alligator Creek	33	N	19	3	19	3	19	3	19	3	18	3	18	3	18	3	18	3	18	3	18	3
Biloela	66	CW	29	-3	29	-3	28	-4	28	-4	28	-4	28	-4	27	-4	27	-4	27	-4	26	-4
Blackwater	132	CW	23	-9	23	-9	22	-9	22	-9	22	-9	22	-9	22	-9	21	-9	21	-9	21	-9
Blackwater	66	CW	103	12	102	12	101	12	100	12	99	12	98	12	98	12	97	12	96	12	95	12
Bowen North	66	N	25	4	25	4	25	4	25	4	25	4	25	4	24	4	24	3	24	3	24	3
Bulli Creek	132	B	24	-4	24	-4	24	-4	23	-5	23	-5	23	-5	23	-5	23	-5	23	-5	23	-5
Calliope River	66	G	53	-2	52	-2	52	-2	51	-2	51	-2	51	-2	51	-2	51	-2	51	-2	51	-2
Cardwell	22	R	4	1	4	1	4	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
Chinchilla	33	S	16	1	16	1	16	1	16	1	16	1	15	1	15	1	15	1	15	1	15	1
Clare South	66	R	37	5	48	10	49	10	48	10	47	9	46	9	45	9	45	8	44	8	44	8
Collinsville North	33	N	17	-6	16	-5	16	-5	16	-5	16	-5	16	-4	16	-4	15	-4	15	-4	15	-4
Columboola	66	S	54	-13	53	-14	51	-14	50	-14	50	-15	49	-15	48	-15	47	-15	46	-16	45	-16
Dan Gleeson	66	R	66	3	66	3	66	3	65	3	64	3	64	3	63	3	63	3	63	3	62	3
Dysart	66	CW	46	8	51	8	57	8	57	8	56	8	56	8	56	8	55	8	55	8	54	8
Edmonton	22	FN	34	-6	34	-6	35	-6	36	-6	37	-6	38	-6	40	-6	41	-6	42	-6	43	-6
Egans Hill	66	CW	45	6	44	6	44	6	43	6	43	6	43	6	43	6	43	6	43	6	43	6
El Arish	22	FN	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	4	0	4	0
Garbutt	66	R	56	4	56	4	57	4	57	4	57	4	57	4	57	4	57	4	58	4	59	4
Gin Gin	132	WB	158	3	157	2	159	3	158	2	156	2	156	2	155	2	155	1	154	1	153	1
Gladstone South	66	G	38	13	38	13	38	13	37	13	37	13	37	13	37	13	37	13	36	13	36	13
Ingham	66	R	20	-1	19	-1	19	-1	19	-1	18	-1	18	-2	18	-2	18	-2	17	-2	17	-2
Innisfail	22	FN	22	2	22	2	21	2	21	2	21	2	21	2	21	2	21	2	20	2	20	2
Kamerunga	22	FN	41	-5	40	-5	40	-5	41	-5	41	-5	42	-5	42	-5	43	-5	44	-4	44	-4
Kemmis	66	N	36	4	35	4	35	4	35	4	34	4	34	5	34	5	34	5	33	5	33	5
King Creek	132	N	9	2	9	2	9	2	9	2	8	2	8	2	8	2	8	2	8	2	8	2
Lilyvale	132	CW	31	-12	30	-12	30	-12	29	-12	29	-12	29	-12	28	-12	28	-12	28	-12	27	-12

Table E.4 Ergon connection point forecast of winter low growth delivered maximum demand *(continued)*

Connection point	Voltage (kV)	Zone	2026		2027		2028		2029		2030		2031		2032		2033		2034		2035	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Lilyvale	66	CW	133	42	131	42	129	42	128	42	127	41	126	41	125	41	124	41	122	41	121	41
Mackay	33	N	66	4	65	4	65	4	65	4	65	4	65	4	65	4	65	4	65	4	65	4
Middle Ridge	110	SW	288	41	287	41	287	41	286	41	285	40	284	40	283	40	282	40	280	39	279	39
Moranbah	11	N	24	3	24	3	24	3	24	3	24	3	23	3	23	3	23	3	23	3	23	3
Moranbah	132	N	51	18	50	18	52	19	55	21	55	21	54	21	54	20	54	20	53	20	53	20
Moranbah	66	N	100	45	99	45	98	44	97	44	97	44	96	44	96	44	95	43	94	43	94	43
Moura	66	CW	66	25	65	24	65	24	64	24	64	24	63	23	63	23	63	23	62	23	62	22
Nebo	11	N	3	0	3	0	3	0	3	0	3	0	3	0	3	0	2	0	2	0	2	0
Newlands	66	N	27	3	26	3	26	3	26	3	26	3	26	3	25	3	25	3	25	3	25	3
Oakey	110	SW	20	5	20	5	20	5	19	5	19	5	19	5	19	5	19	5	19	5	19	5
Pandoin	66	CW	37	-1	36	-1	36	-1	36	-1	36	-1	36	-1	36	-1	36	-1	36	-1	36	-1
Pioneer Valley	66	N	28	-5	28	-5	28	-5	29	-5	29	-5	29	-5	29	-5	30	-4	30	-4	31	-4
Proserpine	66	N	36	1	36	1	35	1	35	1	34	1	34	1	34	1	34	1	34	1	34	1
Rockhampton	66	CW	77	3	76	3	76	3	76	3	76	3	76	3	77	3	77	3	78	3	78	3
Ross	132	R	40	-10	38	-11	37	-11	36	-12	36	-12	35	-12	35	-12	34	-13	34	-13	33	-13
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	25	2	25	1	24	1	24	1	24	1	24	1	24	1	23	1	23	1	23	1
Tarong	66	SW	50	10	49	10	49	10	49	9	48	9	48	9	48	9	47	9	47	9	47	9
Teebar Creek	132	WB	134	37	133	37	132	36	131	36	130	35	129	35	129	35	128	34	128	34	127	34
Townsville East	66	R	27	9	27	9	27	9	26	9	26	9	26	8	25	8	25	8	25	8	25	8
Townsville South	66	R	60	6	60	6	60	6	60	6	60	6	60	6	60	6	60	6	60	6	60	6
Tully	22	R	14	0	14	0	14	0	14	0	14	0	14	0	14	0	14	0	14	0	14	0
Turkinje	132	FN	21	-15	21	-15	20	-15	20	-15	20	-15	20	-15	20	-15	20	-15	19	-15	19	-15
Turkinje	66	FN	62	-1	61	-1	60	-2	59	-2	58	-2	58	-2	57	-2	57	-2	56	-2	56	-2
Woolooga	132	WB	16	-6	15	-6	15	-6	15	-6	15	-6	15	-5	14	-5	14	-5	14	-5	14	-5
Woree	132	FN	108	-3	107	-3	106	-3	105	-3	105	-3	105	-3	105	-3	105	-3	106	-3	106	-3
Yarwun	132	G	50	21	56	24	56	24	56	24	56	24	56	24	55	24	55	24	55	23	55	23

Table E.5 Ergon connection point forecast of winter central growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			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	19	2	20	2	20	2
Alligator 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	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3
Biloela	66	CW	29	-3	29	-3	29	-3	29	-3	29	-3	29	-3	29	-3	29	-3	29	-4	28	-4
Blackwater	132	CW	23	-9	23	-9	23	-9	23	-9	23	-9	23	-9	23	-9	23	-9	23	-9	23	-9
Blackwater	66	CW	104	12	104	12	104	12	104	12	104	12	104	12	104	12	104	12	104	12	103	12
Bowen North	66	N	25	4	25	4	26	4	26	4	26	4	26	4	26	4	26	4	26	4	26	4
Bulli Creek	132	B	24	-4	24	-4	24	-4	24	-4	24	-4	24	-4	24	-4	24	-4	24	-4	24	-4
Calliope River	66	G	53	-2	53	-2	53	-2	54	-2	54	-2	54	-2	55	-2	55	-2	55	-2	55	-2
Cardwell	22	R	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1
Chinchilla	33	S	16	1	16	1	16	1	16	1	16	1	16	1	16	2	16	2	16	2	16	2
Clare South	66	R	37	5	49	10	50	11	49	10	49	10	48	10	48	10	47	10	47	9	47	9
Collinsville North	33	N	17	-6	17	-6	17	-6	17	-6	17	-6	16	-6	17	-6	16	-6	16	-6	16	-5
Columboola	66	S	54	-13	54	-13	53	-13	53	-13	52	-14	52	-14	51	-14	51	-14	50	-14	50	-14
Dan Gleeson	66	R	66	3	67	3	68	3	68	3	68	3	68	3	68	3	68	3	68	3	68	3
Dysart	66	CW	46	8	52	8	58	8	58	8	58	8	58	8	58	8	58	8	58	8	58	8
Edmonton	22	FN	34	-6	35	-6	37	-6	38	-6	39	-6	41	-6	42	-6	44	-6	46	-6	47	-6
Egans Hill	66	CW	45	6	45	6	45	6	45	6	45	6	46	6	46	6	47	6	47	6	48	6
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	56	4	58	4	59	4	60	4	61	4	62	4	63	4	65	4	66	4	68	5
Gin Gin	132	WB	158	3	159	3	163	4	163	4	163	4	163	4	164	5	165	5	165	5	165	5
Gladstone South	66	G	39	13	39	13	39	13	39	13	39	13	39	13	39	13	39	13	40	13	40	13
Ingham	66	R	20	-1	20	-1	20	-1	19	-1	19	-1	19	-1	19	-1	19	-1	19	-1	19	-1
Innisfail	22	FN	22	2	22	2	22	2	22	2	22	2	22	2	23	2	23	2	23	2	23	2
Kamerunga	22	FN	41	-5	41	-5	42	-5	43	-5	44	-4	46	-4	47	-4	49	-3	50	-3	52	-3
Kemmis	66	N	36	4	36	4	36	4	36	4	36	4	36	4	36	4	36	4	36	4	36	4
King Creek	132	N	9	2	9	2	9	2	9	2	9	2	9	2	9	2	9	2	9	2	9	2
Lilyvale	132	CW	31	-12	31	-12	31	-12	31	-12	30	-12	30	-12	30	-12	30	-12	30	-12	30	-12

Table E.5 Ergon connection point forecast of winter central growth delivered maximum demand *(continued)*

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Lilyvale	66	CW	133	42	134	42	134	42	134	42	134	43	134	43	134	43	134	43	134	42	133	42
Mackay	33	N	66	4	66	4	67	4	68	4	69	4	70	4	71	4	72	4	73	4	74	4
Middle Ridge	110	SW	289	42	292	43	296	44	297	44	298	44	299	45	300	45	302	46	303	46	304	46
Moranbah	11	N	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3	25	3
Moranbah	132	N	51	18	51	18	54	20	57	22	57	22	57	22	57	22	57	22	57	22	57	22
Moranbah	66	N	101	45	101	46	101	46	102	46	102	46	102	46	102	46	102	46	102	46	102	46
Moura	66	CW	67	25	67	25	67	25	67	25	67	25	67	25	67	25	67	25	67	25	67	25
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	27	3	27	3	27	3	27	3	27	3	27	3	27	3	27	3	27	3	27	3
Oakey	110	SW	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5	20	5
Pandoin	66	CW	37	-1	37	-1	37	-1	37	-1	38	-1	38	-1	38	-1	38	-1	38	-1	39	-1
Pioneer Valley	66	N	28	-5	29	-5	29	-5	30	-4	31	-4	32	-4	33	-3	34	-3	35	-3	36	-2
Proserpine	66	N	36	1	36	1	36	1	36	1	36	1	36	1	36	1	36	1	37	1	37	1
Rockhampton	66	CW	77	3	78	3	78	3	79	3	80	3	81	3	82	4	83	4	84	4	86	4
Ross	132	R	40	-10	38	-11	38	-11	38	-11	38	-11	37	-11	37	-11	37	-11	37	-11	36	-12
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	25	2	25	2	25	2	25	2	25	2	25	2	25	2	25	2	25	2	25	2
Tarong	66	SW	50	10	50	10	50	10	50	10	51	10	51	10	51	10	51	10	51	10	51	10
Teebar Creek	132	WB	134	37	135	38	136	38	136	38	136	38	137	39	137	39	138	39	138	39	138	39
Townsville East	66	R	27	9	27	9	27	9	27	9	27	9	27	9	27	9	28	9	28	9	28	9
Townsville South	66	R	61	6	61	6	62	7	62	7	63	7	64	7	64	7	65	8	66	8	66	8
Tully	22	R	14	0	14	0	14	0	14	0	14	0	14	0	14	0	14	0	14	0	14	0
Turkinje	132	FN	21	-15	21	-15	21	-15	21	-15	21	-15	21	-15	21	-15	21	-15	21	-15	21	-15
Turkinje	66	FN	62	-1	62	-1	61	-1	61	-1	61	-1	61	-1	61	-1	61	-1	61	-1	61	-1
Woolooga	132	WB	16	-6	16	-6	15	-6	15	-6	15	-6	15	-6	15	-6	15	-6	15	-6	15	-6
Woree	132	FN	109	-3	109	-3	109	-3	110	-2	111	-2	112	-2	114	-2	116	-1	118	-1	120	-1
Yarwun	132	G	51	21	57	25	58	25	58	25	58	25	59	25	59	25	59	25	59	26	60	26

Table E.6 Ergon connection point forecast of winter high growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			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	20	2	20	2	20	2	21	3	21	3	22	3	22	3
Alligator Creek	132	N	39	11	40	11	40	12	41	12	41	12	42	12	42	12	43	13	43	13	43	13
Alligator Creek	33	N	20	3	20	3	20	3	20	3	20	4	20	4	21	4	21	4	21	4	21	4
Biloela	66	CW	30	-3	30	-3	30	-3	30	-3	31	-3	31	-3	31	-3	31	-3	31	-3	31	-3
Blackwater	132	CW	23	-9	24	-9	24	-9	24	-9	24	-9	25	-9	25	-9	25	-9	25	-9	25	-8
Blackwater	66	CW	104	12	107	12	108	12	109	13	110	13	111	13	112	13	113	13	113	13	114	13
Bowen North	66	N	26	4	26	4	26	4	27	4	27	4	27	5	28	5	28	5	28	5	28	5
Bulli Creek	132	B	24	-4	25	-4	25	-4	25	-4	25	-4	25	-4	26	-4	26	-4	26	-4	26	-4
Calliope River	66	G	53	-2	55	-2	55	-2	56	-2	57	-1	58	-1	58	-1	59	-1	60	-1	61	-1
Cardwell	22	R	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1
Chinchilla	33	S	16	1	16	2	17	2	17	2	17	2	17	2	17	2	18	2	18	2	18	2
Clare South	66	R	37	5	50	11	51	11	51	11	51	11	51	11	51	11	51	11	51	11	51	11
Collinsville North	33	N	17	-6	17	-6	17	-6	17	-7	17	-7	18	-7	18	-7	18	-7	18	-7	18	-8
Columboola	66	S	55	-13	55	-13	55	-13	56	-13	56	-13	56	-13	56	-12	56	-12	56	-12	56	-12
Dan Gleeson	66	R	67	3	69	3	70	3	71	3	72	3	73	3	74	3	75	3	76	3	76	3
Dysart	66	CW	46	8	53	8	60	8	61	8	61	8	61	8	62	8	62	8	62	8	63	8
Edmonton	22	FN	34	-6	36	-6	38	-6	39	-6	41	-6	43	-6	45	-6	47	-6	49	-6	51	-6
Egans Hill	66	CW	45	6	46	6	46	6	47	6	47	6	48	6	49	6	50	7	51	7	52	7
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	57	4	60	4	62	4	65	4	68	5	71	5	74	5	77	5	80	5	83	5
Gin Gin	132	WB	159	3	163	4	168	6	170	6	171	7	173	7	174	8	176	9	178	9	179	10
Gladstone South	66	G	39	13	40	14	40	14	41	14	41	14	42	14	42	14	42	14	43	14	43	14
Ingham	66	R	20	-1	20	-1	20	-1	20	-1	20	-1	20	-1	20	-1	20	-1	20	-1	20	-1
Innisfail	22	FN	22	2	23	2	23	2	23	2	24	2	25	2	26	2	27	2	28	2	28	2
Kamerunga	22	FN	41	-5	42	-5	44	-4	46	-4	49	-3	53	-3	56	-2	59	-1	62	-1	65	0
Kemmis	66	N	36	4	37	4	37	4	38	3	38	3	38	3	39	3	39	3	39	3	40	3
King Creek	132	N	9	2	9	2	9	3	9	3	9	3	9	3	9	3	9	3	9	3	10	3
Lilyvale	132	CW	31	-12	32	-11	32	-11	32	-11	32	-11	32	-11	32	-11	32	-11	32	-11	32	-11

Table E.6 Ergon connection point forecast of winter high growth delivered maximum demand *(continued)*

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Lilyvale	66	CW	134	43	137	43	139	43	141	44	142	44	144	44	145	44	146	44	147	45	149	45
Mackay	33	N	67	4	68	4	71	4	73	4	76	4	79	3	82	3	84	2	86	2	88	1
Middle Ridge	110	SW	291	42	299	45	306	47	310	48	314	49	318	50	321	51	325	52	328	53	331	54
Moranbah	11	N	25	3	25	3	26	3	26	3	26	3	26	3	27	3	27	3	27	3	27	3
Moranbah	132	N	51	18	52	19	55	21	59	23	60	23	60	24	60	24	61	24	61	24	62	25
Moranbah	66	N	101	46	104	47	105	47	107	48	108	48	109	49	111	49	112	50	113	50	113	50
Moura	66	CW	67	25	68	26	69	26	70	27	71	27	72	27	73	28	73	28	74	28	74	29
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	27	3	28	3	28	3	28	3	29	3	29	3	29	4	30	4	30	4	30	4
Oakey	110	SW	20	5	21	6	21	6	21	6	21	6	21	6	22	6	22	6	22	6	22	6
Pandoin	66	CW	37	-1	38	-1	39	-1	39	-1	40	-1	41	-1	41	-1	42	-1	42	-1	43	-1
Pioneer Valley	66	N	29	-5	30	-5	31	-4	33	-3	35	-3	38	-2	40	-1	42	-1	44	0	45	0
Proserpine	66	N	36	1	37	1	37	1	37	1	38	1	38	2	38	2	39	2	40	2	40	2
Rockhampton	66	CW	77	3	80	3	82	4	83	4	85	4	86	4	88	5	91	5	93	5	96	5
Ross	132	R	40	-10	40	-10	40	-10	40	-10	40	-10	40	-10	40	-10	41	-10	41	-9	41	-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	25	2	26	2	26	2	27	2	27	2	27	2	27	2	28	2	28	2	28	3
Tarong	66	SW	50	10	51	11	52	11	53	11	53	11	54	12	54	12	55	12	55	12	56	12
Teebar Creek	132	WB	136	38	139	40	141	41	143	42	144	42	145	43	147	43	148	44	149	45	151	46
Townsville East	66	R	27	9	28	9	28	9	29	10	29	10	29	10	30	10	30	10	30	10	31	10
Townsville South	66	R	61	6	63	7	64	7	66	8	67	8	68	9	70	9	72	10	73	10	74	11
Tully	22	R	14	0	15	0	15	0	15	0	15	0	15	0	15	1	15	1	15	1	15	1
Turkinje	132	FN	21	-15	22	-15	22	-15	22	-15	22	-15	22	-15	22	-15	22	-15	22	-15	23	-15
Turkinje	66	FN	62	-1	63	-1	63	-1	64	-1	64	-1	64	-1	64	-1	64	-1	64	-1	65	-1
Woolooga	132	WB	16	-6	16	-6	16	-6	16	-6	16	-6	16	-6	16	-6	16	-6	16	-6	16	-6
Woree	132	FN	109	-2	112	-2	114	-2	117	-1	120	-1	123	0	127	1	130	1	134	2	138	3
Yarwun	132	G	50	21	58	25	59	25	60	26	61	26	62	27	62	27	63	27	64	28	64	28

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

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	69	4	69	4	69	4	70	4	71	4	71	4	71	4	71	4	71	4	71	4
Abermain	33	M	109	11	110	11	111	12	112	12	114	12	115	12	116	12	118	12	120	13	122	13
Algester	33	M	77	18	76	18	78	19	78	19	77	18	77	18	78	19	78	19	79	19	80	20
Ashgrove West	110	M	118	2	118	2	116	2	120	2	121	2	128	2	128	2	128	2	128	2	128	2
Ashgrove West	33	M	77	10	77	10	76	10	75	9	74	9	75	9	75	9	76	10	77	10	79	11
Belmont	110	M	397	53	400	53	409	57	418	60	423	61	429	63	429	63	432	64	435	65	440	67
Belmont	33	M	137	17	136	17	136	17	135	17	135	17	135	17	136	17	137	17	138	17	139	18
Blackstone	110	M	112	14	121	15	125	15	129	16	132	16	133	17	136	17	138	17	140	18	143	18
Bundamba	110	M	38	13	40	14	39	14	39	14	40	14	39	14	39	14	39	14	39	14	39	14
Goodna	110	M	149	-1	162	-2	169	-2	170	-2	170	-2	170	-2	171	-2	173	-2	175	-2	176	-2
Loganlea	110	M	450	119	476	132	486	138	495	142	504	147	517	154	525	158	534	163	545	168	550	171
Loganlea	33	M	109	0	109	0	115	-1	117	-1	117	-1	117	-1	118	-1	118	-1	118	-1	118	-1
Middle Ridge	110	M	112	-4	112	-4	111	-5	110	-5	110	-5	110	-5	110	-5	109	-5	109	-5	108	-5
Molendinar	110	GC	576	-48	575	-48	578	-49	587	-49	586	-49	586	-49	587	-49	588	-49	589	-50	590	-50
Mudgeeraba	110	GC	373	74	373	73	374	74	377	75	376	74	379	75	383	76	385	77	387	78	390	78
Mudgeeraba	33	GC	24	4	23	4	23	4	23	4	23	4	23	4	23	4	24	4	24	4	24	4
Murarrie	110	M	518	66	520	66	535	69	539	70	546	71	566	74	569	75	573	76	578	77	579	77
Palmwoods	110 & 132	M	469	94	485	99	496	101	509	105	520	107	531	110	549	115	566	119	574	121	580	122
Redbank Plains	11	M	35	2	37	2	35	2	37	3	37	2	37	2	37	2	37	2	37	3	37	3
Richlands	33	M	130	29	130	29	128	28	127	27	127	27	126	27	126	27	126	27	126	27	126	27
Rocklea	110	M	152	50	156	53	158	54	158	54	158	54	158	54	159	54	164	57	164	57	165	58
Runcorn	33	M	69	3	70	4	70	3	70	4	71	4	71	4	71	4	72	4	73	4	74	4
South Pine	110	M	1084	111	1097	115	1108	118	1118	120	1140	125	1175	134	1207	142	1229	147	1247	152	1263	156
Sumner	110	M	34	10	34	10	33	10	33	10	33	10	33	10	33	10	33	10	33	10	34	10
Tennyson	110	M	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6
Tennyson	33	M	190	9	191	9	192	9	190	9	189	8	189	8	189	8	190	8	191	9	194	9
Woolooga	132	M	244	-40	244	-40	242	-39	240	-39	239	-39	237	-39	237	-39	236	-39	236	-39	236	-39

Table E.8 Energex connection point forecast of summer central growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	69	4	70	4	71	4	72	4	74	4	74	4	75	4	76	4	76	4	77	4
Abermain	33	M	109	11	111	12	114	12	117	12	120	13	122	13	125	13	128	13	131	14	134	14
Algester	33	M	77	18	78	19	81	20	82	20	82	21	84	21	85	22	87	23	89	24	91	25
Ashgrove West	110	M	118	2	120	2	120	2	125	2	127	2	136	2	137	2	139	2	140	2	141	2
Ashgrove West	33	M	78	10	78	11	78	11	78	11	79	11	81	12	82	12	85	13	87	14	90	15
Belmont	110	M	397	53	406	55	422	61	435	65	447	69	458	73	465	75	474	78	482	80	489	83
Belmont	33	M	138	18	139	18	140	18	141	18	143	19	145	20	148	20	151	21	153	22	156	23
Blackstone	110	M	112	14	123	15	128	16	133	17	137	17	139	17	143	18	146	18	149	19	152	19
Bundamba	110	M	38	13	40	14	40	14	40	14	41	15	41	15	42	15	42	15	42	15	42	15
Goodna	110	M	150	-1	165	-2	174	-2	176	-2	177	-2	180	-3	182	-3	185	-3	188	-3	191	-3
Loganlea	110	M	453	121	484	137	501	145	515	153	530	160	545	168	557	174	570	181	584	188	593	193
Loganlea	33	M	110	0	110	0	118	-1	121	-2	123	-2	124	-2	125	-2	127	-2	128	-3	129	-3
Middle Ridge	110	M	113	-4	114	-4	114	-4	114	-4	116	-4	116	-4	117	-4	117	-4	118	-3	118	-3
Molendinar	110	GC	576	-48	582	-49	594	-50	610	-52	614	-52	619	-52	625	-53	631	-54	635	-54	641	-55
Mudgeeraba	110	GC	375	74	379	75	385	77	393	79	395	80	402	82	411	85	417	87	423	89	428	90
Mudgeeraba	33	GC	24	4	24	4	24	4	24	4	24	4	24	4	25	5	25	5	26	5	27	5
Murarrie	110	M	519	66	527	67	550	72	560	73	574	76	599	80	609	82	617	84	625	85	631	86
Palmwoods	110 & 132	M	467	94	489	100	508	104	527	109	543	113	557	117	578	122	598	127	610	130	618	132
Redbank Plains	11	M	35	2	37	2	36	2	39	3	39	3	39	3	39	3	39	3	40	3	40	3
Richlands	33	M	130	29	132	29	132	29	132	30	133	30	134	30	135	31	137	31	138	32	139	32
Rocklea	110	M	152	50	158	54	161	56	163	57	165	58	167	59	169	60	176	64	177	65	179	66
Runcorn	33	M	69	3	71	4	72	4	105	11	107	11	109	12	110	12	112	12	114	13	115	13
South Pine	110	M	1088	112	1116	119	1141	126	1165	131	1201	141	1250	153	1295	164	1328	172	1358	179	1385	186
Sumner	110	M	34	11	34	11	34	11	35	11	35	11	35	11	36	11	37	12	38	12	39	13
Tennyson	110	M	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6	13	-6
Tennyson	33	M	191	9	194	9	198	9	198	9	199	9	202	9	205	10	208	10	212	10	217	11
Woolooga	132	M	245	-40	248	-40	249	-41	249	-41	250	-41	252	-41	253	-41	255	-42	257	-42	258	-42

Table E.9 Energex connection point forecast of summer high growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	70	4	71	4	73	4	75	4	77	4	78	3	79	3	80	3	82	3	83	3
Abermain	33	M	109	11	113	12	118	12	122	13	127	13	130	14	134	14	138	15	142	15	147	16
Algester	33	M	77	18	79	19	84	22	86	23	88	23	90	24	92	25	94	26	96	27	99	28
Ashgrove West	110	M	119	2	122	2	125	2	131	2	135	2	146	2	150	2	153	2	155	2	158	2
Ashgrove West	33	M	77	10	80	11	82	12	83	13	86	14	88	14	90	15	93	17	96	18	100	19
Belmont	110	M	398	53	417	59	443	68	464	75	482	81	499	86	511	90	527	95	541	100	559	106
Belmont	33	M	137	17	141	18	144	19	148	21	152	22	156	23	159	24	163	25	168	26	172	28
Blackstone	110	M	113	14	125	16	131	16	138	17	142	18	146	18	150	19	154	20	158	20	162	21
Bundamba	110	M	38	13	41	15	41	15	42	15	43	16	44	16	44	16	45	16	46	17	46	17
Goodna	110	M	150	-1	168	-2	180	-3	184	-3	187	-3	190	-3	193	-3	197	-3	201	-3	205	-4
Loganlea	110	M	452	120	493	141	518	154	538	165	557	174	575	184	592	192	613	203	634	214	648	221
Loganlea	33	M	110	0	113	-1	122	-2	127	-2	130	-3	132	-3	134	-3	136	-4	138	-4	140	-4
Middle Ridge	110	M	113	-4	115	-4	117	-4	119	-3	121	-3	123	-3	124	-2	126	-2	127	-2	128	-2
Molendinar	110	GC	578	-49	595	-50	615	-52	636	-54	648	-55	657	-56	666	-57	676	-58	686	-59	698	-60
Mudgeeraba	110	GC	375	74	387	78	399	81	411	85	419	88	430	91	442	94	450	97	460	100	468	102
Mudgeeraba	33	GC	24	4	24	4	25	4	25	5	26	5	26	5	27	5	27	5	28	6	29	6
Murarrie	110	M	520	66	538	69	570	75	587	78	607	82	637	87	651	90	664	92	677	95	686	96
Palmwoods	110 & 132	M	470	95	502	103	526	109	548	114	568	119	584	123	607	129	630	135	645	139	659	142
Redbank Plains	11	M	35	2	38	3	38	3	40	3	41	3	41	3	41	3	42	3	42	3	42	3
Richlands	33	M	130	29	134	30	137	31	139	32	142	33	144	34	146	35	150	37	152	38	155	39
Rocklea	110	M	152	51	162	56	168	59	172	62	176	64	179	66	183	68	191	73	194	74	198	76
Runcorn	33	M	69	3	73	4	75	5	109	12	113	13	116	13	118	14	120	14	122	15	125	15
South Pine	110	M	1089	113	1138	125	1184	136	1223	146	1271	158	1328	172	1383	185	1585	235	1626	246	1665	255
Sumner	110	M	34	11	35	11	36	11	37	12	38	12	39	13	40	14	41	14	43	15	44	16
Tennyson	110	M	13	-6	13	-6	14	-6	14	-6	14	-6	14	-6	14	-6	14	-6	14	-6	14	-6
Tennyson	33	M	191	9	199	9	206	10	210	10	214	10	218	11	223	11	228	12	233	12	240	13
Woolooga	132	M	245	-40	253	-41	257	-42	261	-42	264	-43	268	-44	271	-44	275	-45	279	-45	282	-46

Table E.10 Energex connection point forecast of winter low growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	66	5	66	5	67	5	67	4	68	4	68	4	68	4	68	4	69	4	69	4
Abermain	33	M	79	8	79	8	81	8	82	8	83	8	84	8	85	9	87	9	88	9	90	9
Algester	33	M	58	10	58	9	61	11	60	11	60	11	61	11	61	11	63	12	64	12	65	13
Ashgrove West	110	M	94	1	93	1	94	1	98	1	99	1	108	1	108	1	108	1	108	1	109	1
Ashgrove West	33	M	57	2	57	2	55	2	55	2	55	1	55	2	56	2	57	2	59	3	62	4
Belmont	110	M	287	17	290	17	298	20	308	23	318	26	325	29	327	30	333	32	341	34	350	37
Belmont	33	M	98	6	97	6	97	5	97	6	97	6	98	6	101	7	101	7	103	7	105	8
Blackstone	110	M	80	9	87	10	91	11	93	11	95	11	97	11	99	12	101	12	102	12	104	12
Bundamba	110	M	30	10	30	10	31	10	31	11	31	11	31	11	31	11	31	11	32	11	32	11
Goodna	110	M	112	0	123	0	130	0	130	0	131	0	132	0	133	-1	135	-1	137	-1	140	-1
Loganlea	110	M	361	74	381	84	392	90	396	91	403	95	415	101	421	104	431	109	441	115	448	118
Loganlea	33	M	86	3	87	3	92	2	93	2	94	2	94	2	94	2	95	2	95	2	95	2
Middle Ridge	110	M	106	-5	105	-5	105	-6	104	-6	104	-6	104	-6	104	-6	104	-6	103	-6	103	-6
Molendinar	110	GC	470	-38	467	-38	470	-38	479	-39	478	-39	479	-39	480	-39	482	-40	484	-40	486	-40
Mudgeeraba	110	GC	268	41	267	41	268	42	270	42	269	42	272	43	277	44	280	45	282	46	286	47
Mudgeeraba	33	GC	21	3	21	3	21	3	20	3	21	3	21	3	21	3	21	3	22	3	22	3
Murarrie	110	M	382	33	395	36	401	38	407	39	418	42	438	47	443	48	449	50	453	51	455	51
Palmwoods	110 & 132	M	390	75	408	79	416	81	429	85	441	88	449	90	470	95	486	99	492	100	499	102
Redbank Plains	11	M	25	1	26	1	25	1	26	1	26	1	26	1	26	1	26	1	26	1	26	1
Richlands	33	M	104	18	103	18	102	17	101	17	101	16	100	16	100	16	100	16	100	16	101	16
Rocklea	110	M	118	31	121	33	122	34	123	34	124	35	124	35	140	44	129	38	130	38	131	38
Runcorn	33	M	53	0	54	0	54	0	55	0	55	0	55	0	56	1	57	1	59	1	60	1
South Pine	110	M	800	41	817	46	828	48	844	52	873	59	896	65	912	69	937	75	959	81	975	85
Sumner	110	M	24	5	24	5	24	5	24	5	23	5	23	5	24	5	24	5	25	5	26	6
Tennyson	110	M	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6	10	-6	10	-6	10	-6
Tennyson	33	M	146	5	148	5	148	5	147	5	146	5	147	5	148	5	150	5	153	5	156	6
Woolooga	132	M	231	-38	230	-38	229	-37	228	-37	227	-37	226	-37	225	-37	224	-37	223	-37	223	-37

Table E.11 Energex connection point forecast of winter central growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	67	5	67	4	69	4	70	4	71	4	72	4	72	4	73	4	74	4	74	4
Abermain	33	M	80	8	81	8	84	8	85	9	88	9	89	9	92	9	94	10	97	10	99	10
Algester	33	M	59	10	59	10	63	12	64	12	65	13	67	14	69	14	71	16	74	17	76	18
Ashgrove West	110	M	95	1	95	1	97	1	102	1	105	1	115	1	117	2	119	2	120	2	121	2
Ashgrove West	33	M	57	3	58	3	58	3	58	3	59	3	61	4	63	5	66	6	69	7	73	8
Belmont	110	M	290	17	297	20	311	24	327	30	343	35	360	40	373	45	385	49	397	52	410	57
Belmont	33	M	99	6	100	6	101	7	102	7	104	8	106	8	111	10	113	10	116	11	119	12
Blackstone	110	M	80	9	88	10	93	11	97	11	100	12	102	12	105	13	108	13	110	13	112	14
Bundamba	110	M	30	10	31	10	32	11	33	11	33	11	33	11	33	11	34	12	34	12	34	12
Goodna	110	M	113	0	125	0	133	-1	135	-1	138	-1	141	-1	145	-1	149	-1	153	-1	157	-2
Loganlea	110	M	366	76	391	89	408	98	416	101	428	108	446	117	460	124	476	133	493	141	506	148
Loganlea	33	M	87	3	89	3	95	2	97	1	99	1	100	1	101	1	102	1	103	1	105	0
Middle Ridge	110	M	106	-5	107	-5	107	-5	107	-5	109	-5	109	-5	109	-5	110	-5	110	-5	111	-5
Molendinar	110	GC	472	-39	477	-39	486	-40	500	-41	505	-42	510	-42	516	-43	522	-43	528	-44	533	-44
Mudgeeraba	110	GC	272	42	275	43	280	45	285	46	287	47	292	49	300	51	305	53	310	54	315	56
Mudgeeraba	33	GC	21	3	21	3	21	3	21	3	22	3	22	3	23	4	23	4	24	4	24	4
Murarrie	110	M	384	34	404	39	415	41	426	44	441	48	467	54	477	57	486	59	493	61	499	62
Palmwoods	110 & 132	M	390	75	415	81	429	84	445	89	462	93	473	96	498	102	518	107	527	109	536	111
Redbank Plains	11	M	25	1	27	1	26	1	27	1	27	1	27	1	27	1	27	1	27	1	28	1
Richlands	33	M	105	18	106	19	106	19	106	19	106	19	107	19	108	20	109	20	111	21	113	21
Rocklea	110	M	119	32	124	35	127	36	129	38	131	39	133	40	150	49	141	44	143	45	145	46
Runcorn	33	M	53	0	55	0	56	1	90	8	91	8	93	8	95	9	98	9	100	10	102	10
South Pine	110	M	806	43	837	51	858	56	885	62	925	72	958	80	986	87	1021	96	1054	104	1079	110
Sumner	110	M	24	5	24	5	25	5	25	5	25	6	26	6	27	7	28	7	30	8	31	9
Tennyson	110	M	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6
Tennyson	33	M	147	5	151	5	153	5	154	6	156	6	159	6	163	6	167	7	172	7	178	8
Woolooga	132	M	231	-38	235	-38	236	-39	236	-39	238	-39	240	-39	242	-40	244	-40	245	-40	247	-40

Table E.12 Energex connection point forecast of winter high growth delivered maximum demand

Connection point	Voltage (kV)	Zone	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
			MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr	MW	MVAr
Abermain	110	M	67	4	69	4	71	4	73	4	75	4	76	4	77	3	78	3	80	3	81	3
Abermain	33	M	81	8	84	8	88	9	91	9	94	10	97	10	100	10	103	11	106	11	110	11
Algester	33	M	59	10	61	11	67	14	69	15	72	16	74	17	78	19	82	20	85	22	89	24
Ashgrove West	110	M	96	1	98	1	102	1	109	1	113	1	125	2	129	2	133	2	135	2	138	2
Ashgrove West	33	M	58	3	60	4	61	4	63	5	65	6	68	7	72	8	77	10	81	12	87	14
Belmont	110	M	292	18	308	23	330	30	356	39	382	48	407	56	430	63	451	70	472	77	494	85
Belmont	33	M	99	6	103	7	106	8	109	9	113	10	116	11	122	13	125	14	128	15	133	16
Blackstone	110	M	81	9	90	11	96	11	100	12	104	13	109	13	113	14	118	14	122	15	127	16
Bundamba	110	M	30	10	31	11	33	11	34	12	35	12	35	12	36	12	37	13	37	13	38	13
Goodna	110	M	114	0	129	0	139	-1	143	-1	149	-1	157	-2	165	-2	172	-2	179	-2	185	-3
Loganlea	110	M	369	78	404	96	425	106	440	114	467	128	504	147	540	165	570	181	599	196	624	209
Loganlea	33	M	88	3	91	2	99	1	102	1	104	0	106	0	109	0	111	0	112	-1	114	-1
Middle Ridge	110	M	107	-5	109	-5	111	-5	112	-4	115	-4	116	-4	117	-4	119	-3	120	-3	121	-3
Molendinar	110	GC	475	-39	490	-40	505	-42	525	-44	534	-45	543	-45	552	-46	561	-47	570	-48	580	-49
Mudgeeraba	110	GC	273	43	282	46	291	48	300	51	306	53	314	55	324	58	332	61	340	63	350	66
Mudgeeraba	33	GC	21	3	22	3	22	4	23	4	23	4	24	4	24	4	25	5	26	5	27	5
Murarrie	110	M	388	35	418	42	435	46	452	50	471	55	500	62	514	65	528	68	538	69	549	71
Palmwoods	110 & 132	M	395	76	428	84	446	89	467	94	486	99	501	102	532	110	560	117	577	122	593	126
Redbank Plains	11	M	25	1	27	1	27	1	28	1	28	1	28	1	28	1	28	1	28	1	29	1
Richlands	33	M	105	18	109	20	110	20	112	21	114	22	116	23	118	24	121	25	123	26	126	27
Rocklea	110	M	119	32	127	36	132	39	136	41	139	43	142	45	161	56	153	51	156	53	160	55
Runcorn	33	M	53	0	57	1	60	1	95	9	98	9	100	10	103	10	106	11	109	12	112	12
South Pine	110	M	814	45	865	57	901	66	943	77	994	89	1035	99	1237	149	1283	161	1326	171	1367	182
Sumner	110	M	25	5	25	6	26	6	27	7	29	7	30	8	32	9	34	10	36	11	38	13
Tennyson	110	M	11	-6	11	-6	11	-6	11	-6	11	-6	11	-6	12	-6	12	-6	12	-6	12	-6
Tennyson	33	M	148	5	156	6	161	6	165	6	170	7	174	7	179	8	186	8	193	9	201	9
Woolooga	132	M	233	-38	241	-39	246	-40	251	-41	256	-42	263	-43	270	-44	276	-45	282	-46	288	-47

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

Connection point (1)	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
	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)	1,182	297	1,170	288	1,295	315	1,356	327	1,380	324	1,402	326	1,410	329	1,427	334	1,429	335	1,429	335
Transmission connected mining loads (3)	1,344	399	1,339	392	1,551	440	1,618	452	1,660	449	1,685	450	1,693	452	1,708	456	1,706	453	1,709	456
Transmission connected CSG loads (4)	2,291	426	2,310	422	2,566	473	2,670	487	2,718	483	2,740	486	2,733	486	2,747	490	2,730	484	2,722	490
Transmission connected rail supply substations (5)(6)	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	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, Ironbark 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 E.14 Sum of individual summer medium growth delivered peak forecast demands for the transmission connected loads

Connection point (1)	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
	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)	1,175	295	1,172	289	1,266	307	1,338	322	1,344	314	1,351	313	1,351	313	1,353	313	1,355	314	1,355	314
Transmission connected mining loads (3)	1,333	396	1,329	390	1,506	429	1,583	444	1,594	436	1,623	433	1,622	432	1,622	431	1,620	428	1,624	432
Transmission connected CSG loads (4)	2,217	425	2,215	421	2,414	463	2,508	481	2,519	473	2,542	473	2,522	472	2,519	470	2,496	465	2,479	472
Transmission connected rail supply substations (5)(6)	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	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, Ironbark 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 E.15 Sum of individual summer low growth delivered peak forecast demands for the transmission connected loads

Connection point (1)	2026/27		2027/28		2028/29		2029/30		2030/31		2031/32		2032/33		2033/34		2034/35		2035/36	
	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)	1,156	294	1,164	290	1,170	287	1,074	256	1,036	237	1,052	238	1,056	239	1,056	239	1,056	239	1,056	239
Transmission connected mining loads (3)	1,318	400	1,313	394	1,321	391	1,230	361	1,197	341	1,236	332	1,239	341	1,237	339	1,233	336	1,237	339
Transmission connected CSG loads (4)	2,141	429	2,114	425	2,124	427	2,047	399	2,024	379	2,061	364	2,050	379	2,051	376	2,022	371	2,008	378
Transmission connected rail supply substations (5)(6)	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	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, Ironbark 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 E.16 Sum of individual winter high growth delivered peak forecast demands for the transmission connected loads

Connection point (1)	2026		2027		2028		2029		2030		2031		2032		2033		2034		2035 (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)	1,180	299	1,186	301	1,274	315	1,367	337	1,366	331	1,406	331	1,419	335	1,437	341	1,439	341	1,439	341
Transmission connected mining loads (3)	1,338	399	1,347	402	1,527	439	1,625	460	1,644	453	1,687	452	1,698	455	1,716	460	1,717	460	1,711	456
Transmission connected CSG loads (4)	2,267	428	2,300	430	2,516	473	2,649	493	2,690	485	2,737	487	2,737	490	2,752	495	2,745	494	2,728	487
Transmission connected rail supply substations (5)(6)	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	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, Ironbark 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 E.17 Sum of individual winter medium growth delivered peak forecast demands for the transmission connected loads

Connection point (1)	2026		2027		2028		2029		2030		2031		2032		2033		2034		20345(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)	1,179	299	1,174	298	1,263	312	1,337	329	1,346	325	1,359	318	1,359	318	1,361	319	1,363	320	1,363	320
Transmission connected mining loads (3)	1,333	398	1,331	398	1,501	432	1,579	449	1,592	445	1,629	436	1,628	435	1,629	435	1,630	435	1,624	431
Transmission connected CSG loads (4)	2,209	427	2,214	428	2,387	467	2,492	484	2,507	480	2,546	475	2,529	475	2,523	475	2,514	475	2,492	467
Transmission connected rail supply substations (5)(6)	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	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, Ironbark 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 E.18 Sum of individual winter low growth delivered peak forecast demands for the transmission connected loads

Connection point (1)	2026		2027		2028		2029		2030		2031		2032		2033		2034		2035(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)	1,164	298	1,165	298	1,164	290	1,161	284	1,015	240	1,053	240	1,061	243	1,061	243	1,061	243	1,061	243
Transmission connected mining loads (3)	1,323	401	1,326	403	1,313	393	1,315	386	1,173	342	1,234	340	1,241	342	1,241	341	1,239	340	1,234	336
Transmission connected CSG loads (4)	2,148	430	2,140	436	2,110	428	2,121	424	1,985	377	2,054	379	2,051	380	2,050	378	2,035	378	2,016	371
Transmission connected rail supply substations (5)(6)	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	167	108	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, Ironbark 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.