



Revenue Reset Regulatory Information Notice

STPIS NCC - Network limits information

Revenue Proposal 2023-24 to 2027-28

JANUARY 2022

Company Information

ElectraNet Pty Ltd (ElectraNet) is the principal electricity transmission network service provider (TNSP) in South Australia.

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1. Injection points

Table 1 Network limits information - Injection points

Asset Information				Design limit		Current limit		Next upgrade limit			Forecast congestion
Location	HV Voltage (kV)	LV Voltage (kV)	TR No	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Plant to be upgraded	Congestion type
Angas Creek	132	33	1	28	32	28	32	28	32		
Angas Creek	132	33	2	28	32	28	32	28	32		
Ardrossan West	132	33	1	25	25	25	25	25	25		
Ardrossan West	132	33	3	25	25	25	25	25	25		
██████	████	████	█	████	████	████	████	████	████		
██████	████	████	█	████	████	████	████	████	████		
Baroota	132	33	1	13	13	12	13	13	13		
Berri	132	66	1	69	75	31	31	69	75	Protection (HV)- Protection Device	
Berri	132	66	2	69	75	31	31	69	75	Protection (HV)- Protection Device	
Blanche	132	33	1	77	82	77	82	77	82		
Blanche	132	33	2	58	62	58	62	58	62		
Brinkworth	275	132	3	200	210	200	210	200	210		
Brinkworth	132	33	5	12	14	12	14	12	14		
Brinkworth	132	33	6	12	14	12	14	12	14		

Asset Information				Design limit		Current limit		Next upgrade limit			Forecast congestion
Location	HV Voltage (kV)	LV Voltage (kV)	TR No	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Plant to be upgraded	Congestion type
Bungama	275	132	2	200	210	200	210	200	210		
Bungama	132	33	3	64	70	64	69	64	70	Primary Plant (LV)-Current transformer	
Bungama	132	33	4	64	70	64	69	64	70	Primary Plant (LV)-Current transformer	
Cherry Gardens	275	132	1	160	160	160	160	160	160		
City West	275	66	1	300	300	300	300	300	300		
City West	275	66	2	300	300	300	300	300	300		
Clare North	132	33	1	25	25	25	25	25	25		
Clare North	132	33	2	25	25	25	25	25	25		
Cultana	275	132	1	200	200	200	200	200	200		
Cultana	275	132	2	200	200	200	200	200	200		
Dalrymple	132	33	1	32	36	23	23	32	36	Primary Plant (LV)-Current transformer	
Dalrymple	132	33	2	32	36	23	23	32	36	Primary Plant (LV)-Current transformer	
Davenport	275	132	1	160	160	160	160	160	160		
Davenport	275	132	2	160	160	160	160	160	160		
Davenport	132	33	3	60	60	60	60	60	60		
Davenport	132	33	4	60	60	60	60	60	60		
Dorrien	132	33	1	72	78	72	78	72	78		
Dorrien	132	33	2	72	78	72	78	72	78		

Asset Information				Design limit		Current limit		Next upgrade limit			Forecast congestion
Location	HV Voltage (kV)	LV Voltage (kV)	TR No	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Plant to be upgraded	Congestion type
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
Morphett Vale East	275	66	3	259	259	259	259	259	259		
Morphett Vale East	275	66	4	259	259	229	229	259	259	CT Connected Secondary (LV)-Current transformer; Primary Plant (LV)-Current transformer	

Asset Information				Design limit		Current limit		Next upgrade limit			Forecast congestion
Location	HV Voltage (kV)	LV Voltage (kV)	TR No	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Normal rating (MVA)	Emergency rating (MVA)	Plant to be upgraded	Congestion type
Whyalla Central	132	33	2	75	75	75	75	75	75		
Whyalla Terminal	132	33	4	60	66	60	66	60	66		
Wudinna	132	66	1	33	36	33	36	33	36		
Wudinna	132	66	2	25	25	25	25	25	25		
Yadnarie	132	66	1	23	27	23	27	23	27		
Yadnarie	132	66	2	23	27	23	27	23	27		

Asset Information				Design Limit			Current operating limit			Next upgrade limit				Forecast congestion
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
F1802	1	Bungama - Pt Pirie	132	110	116	132	110	116	132	110	116	132		
F1810	1	Cultana - Middleback	132	96	108	139	91	91	91	96	108	137	Primary Plant (To)-Current Transformer	
										96	108	139	CT Connected Secondary (To)-Current Transformer	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
F1843	1	Cultana - Whyalla Central #1	132	234	242	266	234	242	266	234	242	266		
F1893	1	Cultana - Whyalla Central #2	132	117	135	177	117	135	177	117	135	177		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
F1810	1	Middleback - Yadnarie	132	73	89	126	73	89	91	73	89	126	Primary Plant (From)-Current Transformer	
F1805	1	Mintaro - Waterloo	132	183	189	207	183	189	207	183	189	207		

Asset Information				Design Limit			Current operating limit			Next upgrade limit				Forecast congestion
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1865	1	Monash - Berri 1	132	179	190	221	107	107	107	179	190	221	Protection (To)-Protection Device	
F1866	1	Monash - Berri 2	132	110	116	132	107	107	107	110	116	132	Protection (From)-Protection Device	
F1854	1	Morgan Whyalla Pipeline 1 - North West Bend	132	184	190	202	184	190	202	184	190	202		
F1853	1	Morgan Whyalla Pipeline 2- Morgan Whyalla Pipeline 1	132	184	190	202	184	190	202	184	190	202		
F1888	1	Morgan Whyalla Pipeline 4 - Waterloo East	132	184	190	190	184	190	190	184	190	190		Forecast - thermal
F1849	1	Morgan Whyalla Pipeline 3- Morgan Whyalla Pipeline 2	132	184	190	202	184	190	202	184	190	202		
F1812	1	Mt Gunson (Davenport) - Pimba	132	76	85	107	76	85	107	76	85	107		
F1813	1	Neuroodla - Leigh Creek South	132	10	16	61	10	16	61	10	16	61		
F1820	1	North West Bend - Monash1	132	179	190	221	165	165	165	179	183	183	Protection (From)-Protection Device	Forecast - voltage stability

Asset Information				Design Limit			Current operating limit			Next upgrade limit			Forecast congestion	
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1892	1	Whyalla Central - Whyalla Terminal	132	125	129	140	125	129	137	125	129	140	Protection (To)-Protection Device	
F1847	1	Robertstown - Morgan Whyalla Pipeline 3	132	184	190	202	184	190	202	184	190	202		
F1855	1	Robertstown - Morgan Whyalla Pipeline 4	132	184	190	190	184	190	190	184	190	190		Forecast-thermal
F1846	1	Robertstown - North West Bend 1	132	141	145	158	141	145	158	141	145	158		
F1806		Waterloo - Waterloo East	132	184	190	190	184	190	190	184	190	190		Forecast-thermal
F1811	1	Yadnarie - Pt Lincoln	132	73	89	126	73	89	91	73	89	126	Primary Plant (From)-Current Transformer; CT Connected Secondary (From)-Current Transformer; Primary Plant (To)-Current Transformer	
F1801	1	Yadnarie - Wudinna	132	144	153	176	91	91	91	137	137	137	Protection (From)-Protection Device; Primary Plant (To)-Current Transformer	

Asset Information				Design Limit			Current operating limit			Next upgrade limit				Forecast congestion
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
										144	153	176	CT Connected Secondary (To)-Current Transformer	
F1832	1	Angas Creek - MAP No 3 Pump	132	141	150	173	141	150	164	141	150	173	Protection (From)-Protection Device	
F1848	1	Ardrossan West - Dalrymple	132	105	111	126	91	91	91	105	111	126	Primary Plant (To)-Current Transformer	
F1825	1	Cherry Gardens - Mt Barker	132	178	190	221	178	190	221	178	190	221		
F1874	1	Templers West - Dorrien	132	131	139	159	131	139	159	131	139	159		
F1890	1	Roseworthy - Templers	132	141	150	173	137	137	137	141	150	173	Plant Conductors (To)-Disconnecter	Forecast - thermal
F1803	1	Hummocks - Ardrossan West	132	110	116	132	110	116	132	110	116	132		
F1841	1	Hummocks - Kadina East	132	144	153	176	137	137	137	144	153	176	Primary Plant (From)-Current Transformer	
F1861	1	Hummocks - Waterloo	132	105	111	126	105	111	126	105	111	126		
F1850	1	Kanmantoo Mine - MHP No 3 Pump	132	80	84	96	80	84	96	80	84	96		
F1833	1	Mannum - MAP No 1 Pump	132	20	37	64	20	37	64	20	37	64		
F1834	1	Mannum - Mobilong	132	141	150	173	141	150	164	141	150	173	Protection (From)-Protection Device	

Asset Information				Design Limit			Current operating limit			Next upgrade limit				Forecast congestion
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1832	1	MAP No 2 Pump - Mannum	132	141	150	173	141	150	164	141	150	173	Protection (To)-Protection Device	
F1832	1	MAP No 3 Pump - MAP No 2 Pump	132	141	150	173	141	150	173	141	150	173		
F1869	1	Millbrook Tee - Angas Creek	132	141	150	173	141	150	173	141	150	173		Forecast - thermal
F1869	1	Millbrook Tee - Millbrook	132	10	16	61	10	16	61	10	16	61		Forecast - thermal
F1845	1	Mobilong - MHP No1 Pump	132	98	103	118	91	91	91	98	103	118	Protection (From)-Protection Device	
F1852	1	Mobilong - MHP No2 Pump	132	178	190	221	105	105	105	178	190	221	Primary Plant (To)-Disconnecter	
F1835	1	Mobilong - Tailern Bend	132	184	190	207	183	183	183	184	190	207	Primary Plant (To)-Current Transformer; CT Connected Secondary (To)-Current Transformer	Forecast - thermal
F1826	1	Mt Barker - MHP No 3 Pump	132	178	190	221	123	123	123	178	190	206	Protection (From)-Protection Device	
										178	190	221	CT Connected Secondary (From)-Current Transformer	
F1869	1	Para - Millbrook Tee	132	141	150	173	141	150	173	141	150	173		Forecast - thermal
F1822	1	Roseworthy - Para	132	141	150	173	137	137	137	141	150	173	Primary Plant (From)-Current Transformer	

Asset Information				Design Limit			Current operating limit			Next upgrade limit			Forecast congestion	
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1827	2	Tailem Bend - Keith No 2	132	178	190	221	178	183	183	178	190	221	Primary Plant (From)-Current Transformer; Primary Plant (To)-Current Transformer; Protection (To)-Protection Device	Forecast - thermal
F1873	1	Templers - Dorrien	132	131	139	159	131	137	137	131	139	159	Plant Conductors (From)-Disconnecter	
F1821	1	Waterloo - Templers	132	141	150	173	137	137	137	141	150	173	Plant Conductors (To)-Disconnecter	Forecast - thermal
F1851	1	MHP No2 Pump - MHP No 3 Pump	132	178	190	221	105	105	105	178	190	221	Plant Conductors (From)-Circuit Breaker, Disconnecter	
F1838	1	Blanche - Snuggery	132	105	111	126	105	111	126	105	111	126		
F1828	1	Keith - Kinraig	132	178	190	221	178	183	183	178	190	221	Primary Plant (From)-Current Transformer; Protection (From)-Protection Device; Primary Plant (To)-Current Transformer Disconnecter; Protection (To)-Protection Device	Forecast - thermal
F1839	1	Mt Gambier - Blanche	132	105	111	126	105	111	126	105	111	126		

Asset Information				Design Limit			Current operating limit			Next upgrade limit			Forecast congestion	
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1831	1	Penola West - Kincaig	132	178	190	221	178	183	183	178	190	201	Primary Plant (To)-Current Transformer; Protection (To)-Protection Device	Forecast - thermal
										178	190	221	CT Connected Secondary (To)-Current Transformer	Forecast - thermal
F1872	1	South East - Snuggery Tee	132	251	268	315	251	268	274	251	268	315	Primary Plant (From)-Current Transformer; Protection (From)-Protection Device; Protection (To)-Protection Device	
F1829	1	South East - Mt Gambier	132	178	190	221	178	183	183	178	190	221	Primary Plant (From)-Current Transformer; Protection (From)-Protection Device; Primary Plant (To)-Current Transformer	

Asset Information				Design Limit			Current operating limit			Next upgrade limit			Forecast congestion	
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1864	1	South East - Penola West	132	178	190	221	178	183	183	178	190	221	Primary Plant (From)-Disconnector, Current Transformer; Primary Plant (To)-Current Transformer	
F1911	1	Templers West - Brinkworth (East Circuit)	275	289	336	452	289	336	452	289	336	452		
F1911	1	Para - Templers West	275	289	336	452	289	336	452	289	336	452		Forecast - thermal
F1918	1	BlythWest - Munno Para	275	451	481	564	451	481	564	451	481	564		
F1966	1	Bungama - Blyth West	275	451	481	564	451	481	564	451	481	564		
F1926	1	Canowie - Robertstown	275	591	613	675	572	572	572	591	613	675	Primary Plant (From)-Current Transformer	

Asset Information				Design Limit			Current operating limit			Next upgrade limit				Forecast congestion
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1910	1	Davenport - Brinkworth (East Circuit)	275	289	336	452	289	336	452	289	336	452		
F1941	1	Davenport - Bungama (West Circuit)	275	451	481	564	451	481	564	451	481	564		
F1919	1	Davenport - Mt. Lock	275	591	613	675	591	613	675	591	613	675		Forecast - thermal
F1968	1	Mt. Lock - Canowie	275	591	613	675	591	613	675	591	613	675		
F1936	1	Davenport - Cultana 2	275	597	617	677	597	617	657	597	617	670	Plant Conductors (To)-Circuit Breaker	Forecast - thermal
										597	617	677	Plant Conductors (From)-Disconnecter	Forecast - thermal
F1920	2	Davenport - Belalie	275	591	613	675	591	613	675	591	613	675		
F1951	2	Belalie - Willalo	275	597	617	677	597	617	677	597	617	677		
F1946	2	Mokota - Robertstown	275	591	613	675	191	191	191	381	381	381	Primary Plant (From)-Current Transformer	
										572	572	572	CT Connected Secondary (From)-Current Transformer	
										591	613	675	Primary Plant (To)-Current Transformer	
F1938	1	Robertstown - Tungkillo	275	591	613	675	591	613	675	591	613	675		Forecast - thermal
F1945	2	Robertstown - Para	275	451	481	564	451	481	564	451	481	564		Forecast - thermal
F1906	1	Happy Valley - Cherry Gardens	275	591	613	675	591	613	675	591	613	675		

Asset Information				Design Limit			Current operating limit			Next upgrade limit				Forecast congestion
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1908	1	Happy Valley - Morphet Vale East	275	451	481	564	451	476	476	451	481	564	Primary Plant (From)-Current Transformer; Primary Plant (To)-Current Transformer	
F1933	1	Kilburn - Northfield	275	591	613	675	476	476	476	591	613	675	Protection (From)-Protection Device; Protection (To)-Protection Device	
F1925	1	Lefevre - Torrens	275	1182	1226	1350	476	476	476	1143	1143	1143	Primary Plant (To)-Circuit Breaker, Disconnecter, Current Transformer	
										1182	1226	1340	Primary Plant (From)-Current; Plant Conductors (To)-Current Transformer, Disconnecter, Circuit Breaker	
										1182	1226	1350	Plant Conductors (From)-Disconnecter, Circuit Breaker	
F1914	1	Magill - East Terrace (U/G Cable)	275	450	450	450	450	450	450	450	450	450		
F1905	1	Magill - Happy Valley	275	902	962	1128	902	962	1128	902	962	1128		
F1907	1	Morphett Vale East - Cherry Gardens	275	591	613	675	591	613	675	591	613	675		
F1913	1	Para - Magill	275	595	617	680	595	617	680	595	617	680		

Asset Information				Design Limit			Current operating limit			Next upgrade limit				Forecast congestion
ID	Circuit No	Tx Line Name	Voltage Level [kV]	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Summer (MVA)	Spring-Autumn (MVA)	Winter (MVA)	Plant to be upgraded	Constraint type
F1940	1	Para - Parafield Gardens West	275	902	962	1128	902	953	953	902	962	1128	Primary Plant (To)-Current Transformer	
F1921	1	Para - Tungkillo	275	896	962	1120	896	962	1120	896	962	1120		
F1956	1	Munno Para - Para	275	451	481	564	451	481	564	451	481	564		Forecast - thermal
F1942	2	Tungkillo - Taillem Bend	275	603	624	684	603	624	684	603	624	684		Forecast - thermal
F1902	1	Para - Torrens 4	275	902	962	1128	476	476	476	902	962	1128	Primary Plant (To)-Current Transformer	
F1901	1	Parafield Gardens West - Pelican Point	275	902	962	1128	902	953	953	902	962	968	Primary Plant (From)-Current Transformer; CT Connected Secondary (From)-Current Transformer	
										902	962	1128	Protection (To)-Protection Device	
F1924	1	Pelican Point - Lefevre	275	1182	1226	1350	1143	1143	1143	1182	1226	1340	Primary Plant (From)-Current Transformer, Disconnecter, Circuit Breaker; Primary Plant (To)-Current Transformer, Disconnecter	
										1182	1226	1350	Plant Conductors (From)-Disconnecter; Plant Conductors (To)-Disconnecter	
F1903	1	Torrens - Cherry Gardens	275	896	962	1120	896	962	1120	896	962	1120		

