



DISTRIBUTION LOSS FACTORS FOR THE 2022/23 FINANCIAL YEAR

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Rules requirements

As specified in the National Electricity Rules, distribution loss factors (DLFs):

- Notionally describe the average electrical energy losses for electricity transmitted on a distribution network between a distribution network connection point and a transmission network connection point or virtual transmission node for the financial year in which they apply;
- Will either be a site-specific distribution loss factor, as defined in clause 3.6.3(b)(2)(i), or derived from the volume weighted average of the average electrical energy loss in the distribution network, as defined in clause 3.6.3(b)(2)(ii); and
- Are to be used in the settlement process as a notional adjustment to the electrical energy flowing at a distribution network connection point in a trading interval to determine the adjusted gross energy amount for that connection point in that trading interval, in accordance with clause 3.15.4.

Clause 3.6.3(i) requires that each year the Distribution Network Service Provider (DNSP) must determine the distribution loss factors to apply in the next financial year in accordance with clause 3.6.3(g) and provide these to AEMO for publication by 1 April. Before providing the distribution loss factors to AEMO for publication, the DNSP must obtain the approval of the Australian Energy Regulator (AER) for the distribution loss factors it has determined for the next financial year.

Distribution loss factors for 2022/23

The Queensland DLFs for the 2022/23 financial year are tabulated in Appendix A.

The Victorian DLFs for the 2022/23 financial year are tabulated in Appendix B.

The NSW DLFs for the 2022/23 financial year are tabulated in Appendix C.

The ACT DLFs for the 2022/23 financial year are tabulated in Appendix D.

The South Australian DLFs for the 2022/23 financial year are tabulated in Appendix E.

The Tasmanian DLFs for the 2022/23 financial year are tabulated in Appendix F.

Appendix G contains a contact for each DNSP. Any questions regarding distribution connection points and DLFs should be referred to the relevant DNSP and their listed contact.

Appendix A: Queensland distribution loss factors for 2022/23

Table 1 Energex's average DLFs

Network level	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
110 kV connected	FSSS	1.00314	1.00381
33 kV connected	F3CL	1.00893	1.01017
11 kV bus connected	F1ZH	1.01299	1.01431
11 kV line connected	F1CH	1.02021	1.02198
LV bus connected	F1CL	1.04344	1.04443
LV line connected	FLCL	1.05871	1.06110

Table 2 Energex's DLFs for individually calculated customers/generators

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
3120081063	FALK	1.00882	1.00807
QB13708848	FBEP	1.00954	1.01065
QB13786415	FBOC	1.00967	1.01013
QB03188493	FBRR	N/A	N/A
QB07156049	FBAC	1.01412	1.01730
3116941403	FAPB	1.01274	1.01238
3120007259	FLMD	1.00715	1.00910
QB03674681	FCAL	1.01235	1.00839
QB03187888	FQCL	1.04572	1.03624
3120032960	FCLT	1.00519	1.00561
3120033076	FCST	1.00248	1.00352
QB00011835	FCRL	1.02212	1.05066
3120167431	FEAN	1.00546	1.00556
3120167432	FEAS	1.00597	1.00569
3117267111	FTD	1.00784	1.00761
3120001083	FRAF	1.01825	1.02123
QB03017958	FQUE	1.01208	1.01337
3117524016	FGBI	1.00386	1.00355
3120048897	FGHP	1.00693	1.00972

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
QB08899177	FHYS	1.04920	1.05573
QB03675327	FICT	1.00777	1.00653
QB00702307	FSFT	1.01136	1.00978
QB08144664	FACI	1.07884	1.08657
3120085619	FLWH	1.00624	1.00622
3120085617	FLWT	1.00062	1.00075
3117238161	FLGP	1.01301	1.01023
3120081891	FNBW	1.13142	1.12721
QB03674177	FQG	1.01767	1.01688
QB05747155	FPCF	1.01384	N/A
QB09709916	FQBH	1.00030	1.00026
QB09750568	FQB	1.00234	1.00142
QB05850851	FQBW	1.00135	1.00161
QB07417373	FQCB	1.00834	1.01001
QB03187390	FQC	1.00003	1.00009
QB07480580	FQL	1.00117	1.00065
3120253094	FQP	1.00594	1.00604
QB12757888	FQR	1.00053	1.00036
3120090363	FQRS	1.00028	1.00019
3120253056	FQRW	1.00558	1.00558
QB08485399	FQT	1.00934	1.00793
3117476607	FQW	1.00884	1.01249
QB03675025	FPAH	1.00931	1.01135
3120134803	FQCH	1.00522	1.00687
QB03674151	FRBH	1.00658	1.00761
QB08051828	FHDU	1.01301	1.01257
QB06480217	FHDL	1.00119	1.00147
QB08045917	FMRP	1.06497	1.06018
QB00703630	FBCC	1.01136	1.01130
QB02572559	FNPD	1.02219	N/A
QMRGW00156	FSWP	1.00875	1.00782
QB00547778	FSBB	1.04608	1.03766

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
3120152640	FSUH	1.01095	N/A
QB07047011	FSTC	1.01258	1.01017
3116852575	FUQ1	1.00469	1.00462
3120301348	FUQC	1.01749	1.01675
QB12021814	FVP	1.01082	1.00829
QB09455507	FSC	1.00645	1.00610
QB03188523	FWGC	1.00506	1.00507
3116578384	FEIB	1.01435	1.02033
3120349332	FLEA	N/A	N/A
3120660775	FLEM	N/A	N/A
QB14097800	FRPT	1.00268	1.00086
3120309278	FSHG	1.17019	1.13587
3117546923	FTTB	1.03990	1.04860
3120301290	FVSF	1.04629	1.05470
3114538695	FWHG	1.09492	1.08010
3120707488	FQNG	1.00534	1.00595
3120297461	FQML	1.00001	1.00001
3120781944	FNPD	N/A	1.01835

Table 3 Ergon Energy's tariff class DLFs

NETWORK LEVEL	DLF applied in 2021/22			DLF to apply in 2022/23		
	East	West	MI	East	West	MI
Sub-Trans. Bus	1.004	1.024	1.001	1.005	1.021	1.002
Sub-Trans. Line	1.011	1.051	1.001	1.015	1.056	1.003
22/11 kV Bus	1.016	1.060	1.006	1.018	1.064	1.008
22/11 kV Line	1.036	1.113	1.025	1.036	1.106	1.023
LV Bus	1.073	1.173	1.052	1.068	1.156	1.046
LV Line	1.077	1.240	1.113	1.083	1.224	1.118

NETWORK LEVEL	DLF codes		
	East	West	MI
Sub-Trans. Bus	GESB	GWSB	GMSB
Sub-Trans. Line	GESL	GWSL	GMSL
22/11 kV Bus	GEHB	GWHB	GMHB
22/11 kV Line	GEHL	GWHL	GMHL
LV Bus	GELB	GWLB	GMLB
LV Line	GELL	GWLL	GMLL

Table 4 Ergon Energy's site-specific DLFs

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
QAAALV0001	GBSB	1.000	1.000
QAAABW0000	GBSB	1.000	1.000
QAAABW0002	GS02	1.006	1.008
3051526859	GBSB	1.000	1.000
3051526841	GBSB	1.000	1.000
3051526883	GBSB	1.000	1.000
3051526891	GBSB	1.000	1.000
QDDD003345	GS77	1.007	1.001
QCCC000004	GS19	1.047	1.078
QCCC000002	GS18	1.003	1.004
QAAABW0001	GS51	1.007	1.007
QDDD000003	GS21	1.003	1.001
QAAALV0000	GBSB	1.000	1.000
QGGG000394	GS40	1.084	1.079
QWAGW00066	GS65	1.003	1.003
QAAABX0014	GS69	1.007	1.006
QEMS000001	GS64	1.007	1.006
QAAALV0002	GBSB	1.000	1.000
QCCC000003	GBSB	1.000	1.000
QCCC000012	GS85	1.072	1.081
QAAALV0004	GBSB	1.000	1.000

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
QAAABX0012	GS70	1.004	1.004
3051111985	GS06	1.006	1.006
QAAARG0000	GS14	1.007	1.005
QAAAMR0001	GS13	1.010	1.007
QAAABW0041	GS62	1.016	1.013
QAAALX0000	GS12	1.000	0.995
3051844184	GS84	1.000	1.000
3051467399	GS86	1.007	1.002
QCCC000020	GS82	1.012	1.010
QDDD000028	GS87	1.005	1.006
3051745071	GS22	1.006	1.005
3051492237	GS89	1.001	1.000
3051988348	GS90	1.008	1.004
QDDD003342	GS88	1.008	1.002
QCCC000018	GS83	1.009	1.002
3052303675	GBSB	1.000	1.000
3052261476	GBSB	1.000	1.000
QGGG000000	GA07	1.001	1.001
QAAAMR0000	GBSB	1.000	1.000
QDDD000005	GBSB	1.000	1.000

Table 5 Ergon Energy's embedded generation DLFs

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
QEEE000547	GS26	0.992	0.993
QEEE000026	GS55	0.985	0.984
QCQPW00076	GS49	0.890	0.940
QFFF000010	GS29	0.995	0.992
QFFF00000Z	GS30	0.995	0.992
QCCC001041	GS67	0.997	0.978
QDDD003206	GS71	1.000	0.996
3052323901	GBSB	1.000	1.000
QCCC001036	GS56	1.000	0.974

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
QMKYW00147	GBSB	1.000	1.000
QGGG000418	GS74	1.001	1.002
3051393689	GS76	0.959	0.964
QEEE000050	GS79	0.978	0.975
3051745577	GS80	1.000	0.998
3051532166	GS81	0.996	0.995
3053000490	GS92	1.000	0.999
3052368025	GS96	0.887	0.868
3053005598	GS93	0.985	0.968
7105006000			
7105006001			
3052060420	GS95	0.999	0.999
3053006353	GS91	0.926	0.927
3053007186	GS98	0.955	0.915
3053010873	GA01	0.951	0.947
3053012323	GA04	0.994	0.983
3053012322	GA05	0.987	0.983
3053008220	GA03	0.944	0.904
3053007670	GA06	0.969	0.925
3053008146	GS99	0.963	0.972
3053011565	GA02	1.010	1.008
3053012527	GS97	1.000	0.994
3053008174	GA11	0.965	0.967
3053094725	GA09	0.987	0.987
3053129419	GA10	0.987	0.987

Table 6 Not in Use

Table 7 Not in Use

Table 8 Not in Use

Appendix B: Victoria distribution loss factors for 2022/23

Table 9 Approved network average DLFs

Distributors	Distribution loss factors					
	Type	DLF A	DLF B	DLF C	DLF D	DLF E
Jemena	Short Sub-transmission	1.0034	1.0071	1.0138	1.0330	1.0379
	Long Sub-transmission	1.0102	1.0139	1.0206	1.0397	1.0446
CifiPower	Short sub-transmission	1.0030	1.0100	1.0129	1.0400	1.0488
Powercor	Short sub-transmission	1.0033	1.0083	1.0315	1.0551	1.0627
	Long sub-transmission	1.0378	1.0428	1.0660	1.0896	1.0972
AusNet Services	Short sub-transmission	1.0022	1.0098	1.0334	1.0556	1.0634
	Long sub-transmission	1.0212	1.0289	1.0524	1.0746	1.0824
United Energy	Short sub-transmission	1.0038	1.0085	1.0135	1.0346	1.0471
	Long sub-transmission	1.0176	1.0223	1.0274	1.0485	1.0609

Distributors	Distribution loss factor codes					
	Type	DLF A	DLF B	DLF C	DLF D	DLF E
Jemena	Short sub-transmission	CSAS	CHBS	CHCS	CLDS	CLES
	Long sub-transmission	CSAL	CHBL	CHCL	CLDL	CLEL
CifiPower	Short sub-transmission	ESTA	EZSB	EHVC	EDSD	ELVE
Powercor	Short sub-transmission	KAS	KBS	KCS	KDS	KES
	Long sub-transmission	KAL	KBL	KCL	KDL	KEL
AusNet Services	Short sub-transmission	LASS	LBSS	LCHS	LDLS	LELS
	Long sub-transmission	LASL	LBSL	LCHL	LDLL	LELL
United Energy	Short sub-transmission	MSAS	MHBS	MHCS	MLDS	MLES
	Long sub-transmission	MSAL	MHBL	MHCL	MLDL	MLEL

Notes:

- DLF- A is the distribution loss factor to be applied to a second-tier customer or market customer connected to a sub-transmission line at 66 kV or 22 kV.
- DLF- B is the distribution loss factor to be applied to a second-tier customer or market customer connected to the lower voltage side of a zone substation at 22 kV, 11 kV or 6.6 kV.
- DLF- C is the distribution loss factor to be applied to a second-tier customer or market customer connected to a distribution line from a zone substation at voltage of 22 kV, 11 kV or 6.6 kV.
- DLF- D is the distribution loss factor to be applied to a second-tier customer or market customer connected to the lower voltage terminals of a distribution transformer at 240/415 V.
- DLF- E is the distribution loss factor to be applied to a second-tier customer or market customer connected to a low voltage line at 240/415 V.

- Separate DLFs are also calculated for each DLF category A to E, depending on whether the length of the sub-transmission line supplying the customer upstream of the customer's connection point is 'short' or 'long'.
- A short sub-transmission line is defined as:
 - A radial sub-transmission line where the route length of the line is less than 20 km, or
 - A sub-transmission line in a loop where the total route length of all lines in the loop is less than 40 km.
- All other sub-transmission lines are defined as 'long sub-transmission'.

Table 10 Approved site-specific DLFs for large load customers

Distributor	Customer NMI	DLF codes	DLF to apply in 2022/23
Jemena	VDDD000495	CVPC	1.0079
	6001280255	CAPA	1.0020
	VDDD000213	CSPL	1.0079
	VDDD000134	CAGP	1.0095
	6001001784	CAHH	1.0116
CitiPower	VAAA000673	ESS4	1.0148
Powercor	VCCCAF0002	KAF1	1.0006
	VCCCAF0001	KAF	1.0069
	VCCDA0031	KDA2	DLF A Short (KAS)
	VCCCGJ0001	KGJ	1.0022
	VCCCRD0007	KRD	1.0094
	6203803617	KBN	1.0081
	VCCDA0025	KDA1	1.0120
	VCCCAD0001	KAD	1.0091
	VCCCSE0004	KSE	1.0572
	VCCBC0025	KBC	1.0375
	VCCCTE0002	KTE	DLF C Long (KCL)
	VCCCSB0012	KSB	1.0493
	VCCCLD0024	KLD	DLF C Short (KCS)
	62038243334	KAT	1.0113
	62039133058	KA0	1.0022
AusNet Services	VBBB000073	LL02	1.0030
	VBBB000161	LL05	1.0006
	VBBB000058	LL01	1.0297
	VBBB000287	LL06	N/A
United Energy	VEEE0PD8AD	MC05	1.0088
	VEEE0TF39Q	MC06	1.0102
	VEEE0BG4Q3	MC02	1.0128
	VEEE0NDNEX	MC04	1.0223
	6407799056	MC08	1.0166
	VEEE08KH3V	MC01	1.0077

Distributor	Customer NMI	DLF codes	DLF to apply in 2022/23
	VEEE0C8AW1	MC03	1.0030
	VEEE0ATYTH	MC07	1.0160

Table 11 Approved DLFs for large embedded generators

Distributor	NMI	DLF codes	DLF to apply in 2022/23
Jemena	6001264751	CSOG	0.9881
Powercor	6203661632	KCH	0.9654
	6203008782	KCF	1.0146
	6203690629	KYW	1.0146
	6203811032	KOH	0.8933
	6203829699	KML	0.9102
	6203879058	KCB	0.9018
	6203921151	KKW	0.9316
	6203921132	KYS	0.9627
	6203934859	KMG	0.9820
	6203934861	KMG	0.9820
	6203935735	KGS	0.9796
	6203937431	KBP	0.9753
	6203949352		
	6203937741	KKS	0.9731
	6203946314	KWS	0.9982
	6203964878	KYD	0.9845
	6203962945	KNS	0.9852
	6203962946		
	6203960144	KYP	0.9818
	6203990753	KCO	0.9811
6203990754			
AusNet Services	6305656070	LG02	1.0316
	6305010110	LG03	1.0115
	6305651897	LG03	1.0115
	6305721689	LG07	1.0368

Distributor	NMI	DLF codes	DLF to apply in 2022/23
	VBBB002342	LG04	1.0232
	VMBTWZCLPS	LG05	0.9894
	VTTSWZRUBX	LG06	0.9906
	6305908426	LG08	1.0145
	6305940506	LG09	1.0220
	6305941257	LG09	1.0220
	6306018714	LG10	1.0219
	6306034976	LG11	0.9993
	6306042131	LG12	1.0000
United Energy	6407649172	MG01	1.0093

Table 12 Not in use

Appendix C: New South Wales distribution loss factors for 2022/23

Table 13 Endeavour Energy's DLFs for tariff classes

Tariff class	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
132 kV Network	HNVL	1.0025	1.0025
Transmission substation	HSTS	1.0065	1.0069
Subtransmission network	HSTL	1.0104	1.0114
Zone substation	HHVT	1.0109	1.0116
High voltage distribution network	HHVL	1.0157	1.0162
Distribution substation	HLVT	1.0476	1.0493
Low voltage network	HLVL	1.0682	1.0680

Table 14 Endeavour Energy's DLFs for embedded generators

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
NEEE000748	HTX2	1.0512	1.0619
NEEE000749	HTX3	1.0343	1.0285
NEEE000750	HTX4	1.0376	1.0250
4310951391	HNC1	1.0001	1.0018

Table 15 Endeavour Energy's DLFs for CRNP Customers

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
4310857952	HTYA	1.0144	1.0170
4310866743	HTXA	1.0083	1.0086
4310942441	HTXB	1.0073	1.0040
4311159207	HTYB	1.0050	1.0055
4311168207	HTYC	1.0040	1.0040
4311204547 4311204594 4311339343 4311339344 4311339345 4311340412	HHY8	N/A	1.0082
4311275493	HTV8	1.0020	1.0096
4311322991 4311322992	HTX7	N/A	1.0062
4311371172 4311371951	HTV3	N/A	1.0000
4311028276 4311028297 4311246109 4311246110	HHY3	1.0121	1.0146
4311061116 4311061119	HTY3	1.0059	1.0064
4311206443 4311173727	HTX9	1.0040	1.0040
4311251697 4311297310	HTV7	1.0013	1.0011
4311265997 4311265950	HTYE	1.0059	1.0055
4311271253 4311271260	HTV6	1.0012	1.0010
NEEE000003	HTX6	1.0101	1.0107
NEEE000005	HHY1	1.0137	1.0135
NEEE000006	HTY5	1.0529	1.0390
NEEE000014	HTY7	1.0110	1.0079
NEEE000046	HTV2	1.0023	1.0036
NEEE000049	HHV1	1.0156	1.0155
NEEE000066	HTY4	1.0261	1.0279

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
NEEE000506	HHY4	1.0144	1.0144
NEEE000758 NEEE000759	HIC1	1.0144	1.0134
NEEE000760 NEEE000762 NEEE000764 NEEE000766 NEEE000768	HTV4	1.0065	1.0181
NEEE000881	HTY9	1.0078	1.0040
NEEE001591	HTX5	1.0108	1.0071
NEEE001656	HTV1	1.0032	1.0036
NEEE001892	HTX1	1.0150	1.0130
NEEE004639	HHVT	1.0109	-
NEEE004639	HHY7	-	1.0107
NEEE005219	HTX8	1.0071	1.0072
NEEEW00001 NEEEW00002	HTF1	1.0028	1.0029
NEEEW04150 NEEEW04151 NEEEW04152 NEEEW04153 NEEEW04154	HTF2	1.0066	1.0072
NEEEW04511 NEEEW04512 NEEEW04513 NEEEW04514	HTF3	1.0038	1.0042

Table 16 Essential Energy's site-specific DLFs

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
4001193201	BS02	0.9296	0.9334
4001185251	BS03	0.9970	0.9986
4001161869	BS32	1.0859	1.0567
NAAA00AC11	BS33	1.0481	1.0200
4001224331	BS35	1.0141	1.0130
NTTTW0RU20	BS37	1.0000	1.0000

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
NAAANRAB50	BS38	1.0102	1.0118
NAAA00AC21	BS39	1.0253	1.0251
NAAA00AB64	BS40	1.0495	1.0239
NAAANRAA01	BS41	1.0651	N/A
4001151659	BS43	0.9953	0.9933
4001231299	BS43	0.9953	0.9933
NFFFNRKU39	BS44	0.9956	0.9993
4001175717	BS45	1.0335	1.0264
4508034707	BS46	1.0391	1.0318
4001210762	BS48	0.9750	0.9781
4001231908	BS50	0.9720	0.9751
NAAANRAA02	BS51	1.0063	1.0063
4001223403	BS52	1.0413	1.0232
4001242173	BS53	1.0087	1.0075
4001251721	BS54	0.9705	0.9772
4001246761	BS55	0.9838	0.9832
4001227465	BS56	1.0141	1.0130
4001258249	BS57	0.9419	0.9217
4001241798	BS58	0.9835	0.9815
4001202550	BS60	1.0121	1.0112
4001297032	BS61	0.9982	0.9841
4001297033	BS62	0.9909	0.9828
4001298855	BS63	0.9983	0.9983
4001298870	BS63	0.9983	0.9983
NTTTWOW110	UNIT	1.0000	1.0000
4001301126	BS64	0.9462	0.9294
4001322845	BS65	0.9803	0.9768
4001327507	BS66	0.9908	0.9853
NDDD00GA13	BS67	1.0126	1.0181
4001292657	BS68	1.0262	1.0289
4001213658	BS68	1.0262	1.0289
4001221780	BS68	1.0262	1.0289

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
4001328303	BS69	0.9812	0.9801
4001330727	BS70	0.9169	0.9263
4001319728	BS71	0.9904	0.9878
4001258283	BS72	N/A	1.0517

Table 17 Essential Energy's general DLFs

Class	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
Low voltage	BL0A, DLDL, DLD2, DLD6, DLGB, DLGD	1.0637	1.0609
LV & metered at CE substation	BL5A	1.0506	1.0485
High voltage line	BH0A	1.0309	1.0290
High voltage substation	BH5A	1.0182	1.0159
Sub-transmission	BS0A	1.0119	1.0104

Table 18 Ausgrid's DLFs for tariff classes

Tariff code	Tariff name	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
EA010	Residential Non ToU (Closed)	LV system	1.0519	1.0517	JLDL
EA011	Residential Transitional ToU (Closed)	LV system	1.0519	1.0517	JLDL
EA025	Residential ToU	LV system	1.0484	1.0489	JL40
EA111	Residential demand (introductory)	LV system	1.0484	1.0489	JL40
EA115	Residential TOU demand	LV system	1.0484	1.0489	JL40
EA116	Residential demand	LV system	1.0484	1.0489	JL40
EA030	Controlled Load 1	LV system	1.0519	1.0517	JL1L
EA040	Controlled Load 2	LV system	1.0519	1.0517	JL2L
EA050	Small Business Non ToU (Closed)	LV system	1.0453	1.0455	JLSL

Tariff code	Tariff name	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
EA051	Small Business Transitional ToU (Closed)	LV system	1.0453	1.0455	JLSL
EA225	Small Business ToU	LV system	1.0453	1.0455	JLSL
EA251	Small Business demand (introductory)	LV system	1.0453	1.0455	JLSL
EA255	Small Business TOU demand	LV system	1.0453	1.0455	JLSL
EA256	Small Business demand	LV system	1.0453	1.0455	JLSL
EA302	LV 40-160 MWh (System)	LV system	1.0453	1.0455	JLSL
EA305	LV 160-750 MWh (System)	LV system	1.0453	1.0455	JLSL
EA310	LV >750 MWh (System)	LV system	1.0453	1.0455	JLSL
EA316	Transitional 40-160 MWh (Closed)	LV system	1.0453	1.0455	JLSL
EA317	Transitional 160-750 MWh (Closed)	LV system	1.0453	1.0455	JLSL
EA325	LV Connection (Standby Tariff-closed)	LV system	1.0453	1.0455	JLSL
EA360	HV Connection (Standby Tariff - closed)	HV system	1.0139	1.0149	JHSH
EA370	HV Connection (System)	HV system	1.0139	1.0149	JHSH
EA380	HV Connection (Substation)	HV substation	1.0102	1.0111	JHBH
EA390	ST Connection	ST System	1.0059	1.0058	JSSS
EA391	ST Connection (Substation)	ST substation	1.0059	1.0058	JSBS
EA401	Public Lighting	LV system	1.0563	1.0562	JLSP
EA402	Constant Unmetered	LV system	1.0461	1.0462	JLSU
EA403	Energy Light	LV system	1.0563	1.0562	JLSP
EA501	Transmission Connection	Transmission	1.0000	1.0000	JTRN

Tariff code	Tariff name	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
EA959	Trial Two-way residential (load)	LV system	N/A	1.0489	JL40
EA960	Trial Two-way residential (generation)	LV system	N/A	1.0147	GENT
EA961	Trial Flexible load (EV)	LV system	N/A	1.0489	JL40
EA962	Trial Community Battery (load)	LV system	N/A	1.0455	JLSL
EA963	Trial Community Battery (generation)	LV system	N/A	1.0147	GENT

Table 19 Ausgrid's DLFs for Individually Calculated Tariff customers

NMI	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
4103736926	33 kV system	1.0063	1.0037	J550
4103736927	33 kV system	1.0063	1.0037	J550
NCCCNREA06	33/11 kV substations	1.0110	1.0123	J660
4103748279	132 kV system	1.0050	1.0015	J885
4103507254	33 kV system	1.0040	1.0034	JGLB
4103507266	33 kV system	1.0040	1.0034	JGLB
4103841748	33 kV system	1.0040	1.0034	JGLB
NCCCZ01251	33 kV system	1.0046	1.0105	J881
4102016227	33 kV transmission	1.0077	1.0119	JTOL
4102016252	33 kV transmission	1.0077	1.0119	JTOL
4103770084	132 kV system	1.0006	1.0011	J887
4103770085	132 kV system	1.0006	1.0011	J886
NCCCZ01381	33 kV transmission	1.0037	1.0038	J800
4103769153	33 kV system	1.0041	1.0082	J700
4103769154	33 kV system	1.0041	1.0082	J700
NCCCNRNP40	132 kV transmission	1.0007	N/A	JCAP
NCCCNRNP50	132 kV transmission	1.0007	N/A	JCAP
NCCCWRNP60	132 kV transmission	1.0007	N/A	JCAP
NCCCNRZ1BK	132/33 kV substations	1.0031	1.0019	J635

NMI	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
4103686298	66 kV system	1.0059	1.0058	JSSS
NCCCX00745	33 kV transmission	1.0096	1.0091	J640
NCCCX00746	33 kV transmission	1.0096	1.0091	J640
NCCCX00747	33 kV transmission	1.0096	1.0091	J640
4103507347	132/33 kV substations	1.0139	1.0033	J601
NCCCNRZ1BM	132 kV system	1.0018	1.0048	J580
NCCCX00332	132/66 kV substations	1.0045	1.0049	J590
NCCCNRZZB0	132/33 kV substations	1.0061	1.0072	J610
NCCCX00750	33 kV transmission	1.0053	1.0051	J620
4104004610	33 kV transmission	1.0053	1.0051	J620
4104004602	33 kV transmission	1.0053	1.0051	J620
NCCCX00753	33 kV transmission	1.0053	N/A	J620
4104060061	33 kV transmission	1.0053	1.0051	J620
NCCC007211	33 kV system	1.0056	1.0051	J605
NCCCNRZ1BQ	33 kV transmission	1.0080	N/A	J655
4104053413	33 kV transmission	1.0080	1.0086	J655
NCCCX00283	132/33 kV substations	1.0037	N/A	J630
NCCCX00284	132/33 kV substations	1.0037	N/A	J630
4104036421	132/33 kV substations	1.0037	1.0067	J630
4104036424	132/33 kV substations	1.0037	1.0067	J630
4104036422	132/33 kV substations	1.0037	1.0067	J630
NCCCX00748	132/33 kV substations	1.0083	1.0126	J615
NCCCX00749	132/33 kV substations	1.0083	1.0126	J615
NCCCNRZ1BT	132/33 kV substations	1.0053	1.0057	J645
NCCCX00293	132/33 kV substations	1.0028	1.0033	J600
NCCCX00294	132/33 kV substations	1.0028	1.0033	J600
NCCC002902	66 kV system	1.0059	1.0058	JK23
NCCC002221	66 kV system	1.0071	1.0124	J500
NCCCZ01275	132/33 kV substations	1.0068	1.0081	J560
NCCCNREEK2	33 kV system	1.0094	1.0103	J541
4102030738	33 kV system	1.0103	1.0072	J543

NMI	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
4103628537	33 kV system	1.0103	1.0072	J543
NCCCNRCS90	HV system	1.0153	1.0175	J670
NCCCNRZ1XJ	66 kV system	1.0129	1.0145	J680
NCCCNREA14	132/11 kV substations	1.0155	1.0154	J770
4103798233	66 kV system	1.0075	1.0120	J771
NCCCNREB57	33/11 kV substations	1.0082	1.0114	J772
4103786533	33/11 kV substations	1.0082	1.0114	J772
NCCCNREB24	132/11 kV substations	1.0176	1.0148	J773
4103598315	132/66 kV substations	1.0096	1.0128	J774
NCCCNREE73	33 kV system	1.0283	1.0226	J775
4103974109	132/66 kV substations	1.0084	1.0078	J777
4103632682	33 kV system	1.0076	1.0051	J778
4103529698	66 kV system	1.0140	1.0148	J779
NCCCNREN7	132/66 kV substations	1.0119	1.0099	J780
4103768912	132/33 kV substations	1.0032	1.0075	J781
4103768913	132/33 kV substations	1.0032	1.0075	J782
4103831536	132/11 kV substations	1.0117	1.0098	J783
4103828337	66 kV system	1.0100	1.0131	J784
4103788882	66 kV system	1.0094	1.0090	J785
NCCCNREA08	66 kV system	1.0084	1.0107	J786
4103981057	33 kV system	1.0024	1.0034	J787
4103526370	66 kV system	1.0089	1.0168	J788
NCCZ01111	HV system	1.0035	1.0074	J789
NCCCNREB14	HV system	1.0192	1.0192	J790
4103679814	33 kV system	1.0172	1.0106	J791
4103822730	132/11 kV substations	1.0066	1.0147	J792
4103822729	132/11 kV substations	1.0066	1.0147	J792
4103789328	132/11 kV substations	1.0135	1.0214	J793
4103801361	132/11 kV substations	1.0135	1.0214	J793
4104077512	33 kV system	N/A	1.0044	J796
4104077513	33 kV system	N/A	1.0044	J796

NMI	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
4104057641	132/11 kV substations	1.0135	N/A	J793
4104057640	132/11 kV substations	1.0135	N/A	J793
4104014840	132 kV system	1.0029	1.0029	J794
4104057286	132 kV system	1.0029	1.0029	J794
4104014582	HV system	N/A	1.0147	J792
4104040999	HV system	N/A	1.0147	J792
4104034186	33 kV system	N/A	1.0057	J795

Table 20 Ausgrid's DLF's for embedded generators

NMI	Location	DLF applied in 2021/22	DLF to apply in 2022/23	DLF code
NCCC007498	33 kV system	N/A	N/A	JGEN
NCCCNRGB10	HV system	N/A	N/A	JK24
NCCCNRME11	33 kV system	1.0056	0.9978	JGEN
NCCCNRME10	33 kV system	1.0056	0.9978	JGEN
4104065006	33 kV system	0.9350	0.9472	JGN1
4103716931	33 kV system	N/A	0.9969	JGN2

Table 21 Not in Use

Appendix D: Australian Capital Territory distribution loss factors for 2022/23

Table 22 Evoenergy's distribution DLFs

Connection	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
High voltage	AH00	1.0106	1.0178
Low voltage	AL00	1.0430	1.0369

Table 23 Evoenergy's site-specific DLFs

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
NGGG000294	AS01	1.0176	1.0129
NGGG000269	AS02	1.0104	1.0178
7001197618	AS04	0.9997	0.9997
7001317224	AS06	0.9985	0.9985
7001319704	AS07	0.9990	0.9995

Appendix E: South Australia distribution loss factors for 2022/23

Table 24 SA Power Network’s distribution connection point class DLFs

Class	Tariff	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
Low voltage small customers	Unmetered	NLV2	1.1170	1.1070
	Residential	NLV2	1.1170	1.1070
	Controlled Load (HW)	NLV2	1.1170	1.1070
	Small LV Business	NLV2	1.1170	1.1070
LV large business	Large LV Business	NLV1	1.0985	1.0903
HV large business	Large HV Business	NHV1	1.0503	1.0449
Major business	Substation Non Locational	NZS1	1.0265	1.0243
	Sub-transmission Non Locational	NST1	1.0163	1.0149

Table 25 SA Power Network’s site-specific DLFs

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
2001000378	NBA1	1.0010	1.0010
2001000608	NAC2	1.0080	1.0080
2002112609	NKC4	1.0100	1.0100
2002213788	NHN1	1.0030	1.0020
2002257162	NRT1	1.0050	1.0050
2002276228	NRA1	1.0100	1.0100
2002280161	NDS4 ¹	1.0100	N/A
2002280161	NDS5	1.0110	1.0110
SAAAAAA018	NPS1	1.0000	1.0000
SAAAAAA021	NPS3	1.0070	1.0070
SAAAAAA024	NAB1	1.0100	1.0100
SAAAAAA035	NGT1	1.0070	1.0070
SAAAAAA084	NOS1	1.0010	1.0010
SAAAAAA085	NHA1	0.9730	0.9730

¹ NDS4 was absorbed into NDS5 in 2021/22 as the second stage of generation was commissioned.

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
SAAAAAA438	NIF1	1.0100	1.0100
SAAAAAB557	NOS2	1.0000	1.0000
SAAAAAE766	NBO1	0.9930	0.9930

Table 26 SA Power Network's embedded generator DLFs

NMI	DLF code	DLF applied in 2021/22	DLF to apply in 2022/23
2001000639	NCL1	1.0020	1.0040
2001000640	NCL1	1.0020	1.0040
2001000734	NSHW	0.9950	0.9950
2001830001	NTGN	1.0000	N/A
2001830002	NTGS	1.0030	N/A
2002108658	NCDW	0.9720	0.9720
2002108660	NAS1	0.9890	0.9890
2002108661	NAS2	0.9890	0.9890
2002220776	NSP1	1.0040	1.0040
2002221495	NSP2	1.0040	1.0040
2002355844	NDS9 ²	1.0100	N/A
2002355844	NDS8	1.0110	1.0110
2002355850	NB09	0.9930	0.9930
2002356073	NHA9	0.9730	0.9730
2002560938	BP01	N/A	0.9960

² NDS9 was absorbed into NDS8 in 2021/22 as the second stage of generation was commissioned.

Appendix F: Tasmania distribution loss factors for 2022/23

The AER has approved the following distribution loss factors for Tasmania for the 2022/23 financial year.

TasNetworks has grouped transmission connection sites into seven regions. The DLFs are grouped into each of these seven regions as follows:

Hobart (Table 28), Tamar (Table 29), East Coast (Table 30), North West (Table 31), Derwent (Table 32), Southern (Table 33), and West Coast (Table 34).

Table 27 TasNetworks' Hobart region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Hobart	PHST	1.0059
Zone substation	Hobart	PHZN	1.0098
HV distribution network	Hobart	PHHV	1.0136
Distribution substation	Hobart	PHDS	1.0397
LV distribution network	Hobart	PHLV	1.0579

Table 28 TasNetworks' Tamar region (incorporating Launceston) DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Tamar	PTST	1.0059
Zone substation	Tamar	PTZN	1.0098
HV distribution network	Tamar	PTHV	1.0136
Distribution substation	Tamar	PTDS	1.0397
LV distribution network	Tamar	PTLV	1.0579

Table 29 TasNetworks' East Coast region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	East Coast	PEST	1.0059
Zone substation	East Coast	PEZN	1.0098
HV distribution network	East Coast	PEHV	1.0136
Distribution substation	East Coast	PEDS	1.0397
LV distribution network	East Coast	PELV	1.0579

Table 30 TasNetworks' North West region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	North West	PNST	1.0059
Zone substation	North West	PNZN	1.0098
HV distribution network	North West	PNHV	1.0136
Distribution substation	North West	PNDS	1.0397
LV distribution network	North West	PNLV	1.0579

Table 31 TasNetworks' Derwent region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Derwent	PDST	1.0059
Zone substation	Derwent	PDZN	1.0098
HV distribution network	Derwent	PDHV	1.0136
Distribution substation	Derwent	PDDS	1.0397
LV distribution network	Derwent	PDLV	1.0579

Table 32 TasNetworks' Southern region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Southern	PSST	1.0059
Zone substation	Southern	PSZN	1.0098
HV distribution network	Southern	PSHV	1.0136
Distribution substation	Southern	PSDS	1.0397
LV distribution network	Southern	PSLV	1.0579

Table 33 TasNetworks' West Coast region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	West Coast	PWST	1.0059
Zone substation	West Coast	PWZN	1.0098
HV distribution network	West Coast	PWHV	1.0136
Distribution substation	West Coast	PWDS	1.0397
LV distribution network	West Coast	PWLV	1.0579

Table 34 TasNetworks' site-specific DLFs

NMI	Region	DLF code	DLF
8000003578	West Coast	PBSM	1.0147
8000003585	North West	PACH	1.0000
8000003868	West Coast	PHGM	1.0000

Table 35 TasNetworks' new statewide DLFs

These new codes are required for TasNetworks to implement the changes outlined in its methodology.

Distribution Network Level	New DLF code (statewide)	Existing DLF codes (regional)	DLF to apply in 2022/2023
Subtransmission network	PAST	PHST PTST PEST PDST PSST PWST PNST	1.0059
Zone substation	PAZN	PHZN PTZN PEZN PDZN PSZN PWZN PNZN	1.0098
HV distribution network	PAHV	PHHV PTHV PEHV PDHV PSHV PWHV PNHV	1.0136
Distribution substation	PADS	PHDS PTDS PEDS PDDS PSDS PWDS PNDS	1.0397
LV distribution network	PALV	PHLV PTLV PELV PDLV PSLV PWL PNLV	1.0579
Transmission connected	PATR		1

Appendix G: Distribution loss factor – Contacts

Questions regarding the distribution loss factors contained in this document should, in the first instance, be directed to the appropriate person listed below.

Distribution Network Service Provider

Ausgrid	Bill Nixey, Network Pricing Manager - Customer & Strategy	02 9037 7556
Endeavour Energy	Fiona Place, Senior Regulatory Compliance & Reporting Analyst	02 9853 6302
Energex	Bob Telford Manager, Network Pricing and Tariffs	0418 929 173
Ergon Energy Corporation Limited	Bob Telford Manager, Network Pricing and Tariffs	0418 929 173
Essential Energy	Catherine Waddell, Network Pricing Manager	02 6338 3553
Evoenergy	Danny Tantri, Principal Engineer System Planning	0418 929 173
Jemena	Siva Moorthy Network Regulation Manager	03 9173 8774
Powercor Australia Ltd and CitiPower Pty Ltd	Aaron O'Brien, Network Optimisation Manager	03 9683 4938
SA Power Networks	Helen White Pricing Manager	0421 118 196
AusNet Services	Charlotte Eddy, Manager Economic Regulation	03 9695 6309
TasNetworks	Tim Astley NEM Strategy and Compliance Team Leader	03 6271 6151
United Energy Distribution	Rosh Sivanathan Head of Network Planning	03 8846 9528