



DISTRIBUTION LOSS FACTORS FOR THE 2021/22 FINANCIAL YEAR

PREPARED BY: Markets
PREPARED FOR: National Electricity Market
DOCUMENT NO: N/A
VERSION NO: 8.0
EFFECTIVE DATE: 1 July 2021

Version control

Version	Date	Details
1.0	1/04/2021	Initial version for 2021/22
2.0	18/05/2021	Corrected DLF value for NMI 3052323901
3.0	24/05/2021	Corrected DLF code for SAPN's Sub-transmission Non Locational – NST1
4.0	01/06/2021	<p>Updates made to SAPN's table 26:</p> <p>2002280161 – Updated value of existing DLF code and added a new code to be used at this site in 2021/2022 financial year</p> <p>SAAAAAA085 – Revised DLF values</p> <p>SAAAAAE766 – Revised DLF values</p> <p>Updates made to SAPN's table 27:</p> <p>2002355844– Updated value of existing DLF code and added a new code to be used for this site in 2021/2022 financial year</p> <p>2002355850 – Revised DLF values</p> <p>2002356073 – Revised DLF values</p>
5.0	21/07/2021	Essential Energy – DLF for NMI 4001330727 (Hillston Solar Farm) added to table 17
6.0	13/09/2021	Essential Energy – DLF for NMI 4001319728 (Sebastopol Solar Farm) added to table 17
7.0	11/11/2021	Capcoal NSP – DLF for NMI 7102000034 (German Ck Gen)
8.0	17/01/2022	<p>Ausgrid – DLF for NMI 4104065006 (Hunter Economic Zone)</p> <p>Evoenergy – Contact Change</p>

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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 2021/22

The Queensland DLFs for the 2021/22 financial year are tabulated in Appendix A.

The Victorian DLFs for the 2021/22 financial year are tabulated in Appendix B.

The NSW DLFs for the 2021/22 financial year are tabulated in Appendix C.

The ACT DLFs for the 2021/22 financial year are tabulated in Appendix D.

The South Australian DLFs for the 2021/22 financial year are tabulated in Appendix E.

The Tasmanian DLFs for the 2021/22 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 2021/22

Table 1 Energex's average DLFs

Network level	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
110 kV connected	FSSS	1.00390	1.00314
33 kV connected	F3CL	1.00844	1.00893
11 kV bus connected	F1ZH	1.01228	1.01299
11 kV line connected	F1CH	1.01960	1.02021
LV bus connected	F1CL	1.03815	1.04344
LV line connected	FLCL	1.05200	1.05871

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

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
3120081063	FALK	1.00940	1.00882
QB13708848	FBEP	1.01138	1.00954
QB13786415	FBOC	1.01012	1.00967
QB03188493	FBRR	1.04952	N/A
QB07156049	FBAC	1.01359	1.01412
3116941403	FAPB	1.01338	1.01274
3120007259	FLMD	1.01060	1.00715
QB03674681	FCAL	1.00884	1.01235
QB03187888	FQCL	1.04763	1.04572
3120032960	FCLT	1.00510	1.00519
3120033076	FCST	1.00331	1.00248
QB00011835	FCRL	1.01527	1.02212
3120167431	FEAN	1.00693	1.00546
3120167432	FEAS	1.00732	1.00597
3117267111	FTD	1.00659	1.00784
3120001083	FRAF	1.01718	1.01825
QB03017958	FQUE	1.00799	1.01208
3117524016	FGBI	1.00413	1.00386
3120048897	FGHP	1.00810	1.00693

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
QB08899177	FHYS	1.05051	1.04920
QB03675327	FICT	1.01251	1.00777
QB00702307	FSFT	1.01025	1.01136
QB08144664	FACI	1.09561	1.07884
3120085619	FLWH	1.00608	1.00624
3120085617	FLWT	1.00071	1.00062
3117238161	FLGP	1.01109	1.01301
3120081891	FNBW	1.13761	1.13142
QB03674177	FQG	1.01320	1.01767
QB05747155	FPCF	1.01313	1.01384
QB09709916	FQBH	1.00026	1.00030
QB09750568	FQB	1.00244	1.00234
QB05850851	FQBW	1.00151	1.00135
QB07417373	FQCB	1.01024	1.00834
QB03187390	FQC	1.00004	1.00003
QB07480580	FQL	1.00072	1.00117
3120253094	FQP	1.00738	1.00594
QB12757888	FQR	1.00051	1.00053
3120090363	FQRS	1.00034	1.00028
3120253056	FQRW	1.00580	1.00558
QB08485399	FQT	1.00481	1.00934
3117476607	FQW	1.00169	1.00884
QB03675025	FPAH	1.01054	1.00931
3120134803	FQCH	1.00295	1.00522
QB03674151	FRBH	1.00620	1.00658
QB08051828	FHDU	1.01361	1.01301
QB06480217	FHDL	1.00174	1.00119
QB08045917	FMRP	1.05755	1.06497
QB00703630	FBCC	1.01073	1.01136
QB02572559	FNPD	1.02164	1.02219
QMRGW00156	FSWP	1.00882	1.00875
QB00547778	FSBB	1.03771	1.04608

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
3120152640	FSUH	1.01010	1.01095
QB07047011	FSTC	1.01076	1.01258
3116852575	FUQ1	1.00480	1.00469
3120301348	FUQC	1.03562	1.01749
QB12021814	FVP	1.00910	1.01082
QB09455507	FSC	1.00633	1.00645
QB03188523	FWGC	1.00488	1.00506
3116578384	FEIB	1.01326	1.01435
3120349332	FLEA	N/A	N/A
3120660775	FLEM	N/A	N/A
QB14097800	FRPT	1.00065	1.00268
3120309278	FSHG	1.16209	1.17019
3117546923	FTTB	1.03718	1.03990
3120301290	FVSF	1.05123	1.04629
3114538695	FWHG	1.05895	1.09492
3120707488	FQNG	1.00556	1.00534
3120297461	FQML		1.00001

Table 3 Ergon Energy's tariff class DLFs

NETWORK LEVEL	DLF applied in 2020/21			DLF to apply in 2021/22		
	East	West	MI	East	West	MI
Sub-Trans. Bus	1.005	1.029	1.001	1.004	1.024	1.001
Sub-Trans. Line	1.008	1.040	1.007	1.011	1.051	1.001
22/11 kV Bus	1.011	1.044	1.010	1.016	1.060	1.006
22/11 kV Line	1.031	1.078	1.037	1.036	1.113	1.025
LV Bus	1.075	1.118	1.092	1.073	1.173	1.052
LV Line	1.093	1.233	1.036	1.077	1.240	1.113

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 2020/21	DLF to apply in 2021/22
QAAALV0001	GBSB	1.000	1.000
QAAABW0000	GBSB	1.000	1.000
QAAABW0002	GS02	1.004	1.006
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	1.004	1.007
QCCC000004	GS19	1.046	1.047
QCCC000002	GS18	1.001	1.003
QAAABW0001	GS51	0.999	1.007
QDDD000003	GS21	1.002	1.003
QAAALV0000	GBSB	1.000	1.000
QGGG000394	GS40	1.086	1.084
QWAGW00066	GS65	1.008	1.003
QAAABX0014	GS69	1.002	1.007
QEMS000001	GS64	1.008	1.007
QAAALV0002	GBSB	1.000	1.000
QCCC000003	GBSB	1.000	1.000
QCCC000012	GS85	1.082	1.072
QAAALV0004	GBSB	1.000	1.000
QAAABX0012	GS70	1.000	1.004

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
3051111985	GS06	1.005	1.006
QAAARG0000	GS14	1.006	1.007
QAAAMR0001	GS13	1.000	1.010
QAAABW0041	GS62	1.008	1.016
QAAALX0000	GS12	0.981	1.000
3051844184	GS84	0.998	1.000
3051467399	GS86	1.006	1.007
QCCC000020	GS82	1.008	1.012
QDDD000028	GS87	1.004	1.005
3051745071	GS22	1.004	1.006
3051492237	GS89	0.999	1.001
3051988348	GS90	1.006	1.008
QDDD003342	GS88	1.008	1.008
QCCC000018	GS83	1.002	1.009
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 2020/21	DLF to apply in 2021/22
QEEE000547	GS26	0.999	0.992
QEEE000026	GS55	0.981	0.985
QCQPW00076	GS49	0.882	0.890
QFFF000010	GS29	0.987	0.995
QFFF00000Z	GS30	0.987	0.995
QCCC001041	GS67	0.992	0.997
QDDD003206	GS71	1.000	1.000
3052323901	GBSB	1.000	1.000
QCCC001036	GS56	0.986	1.000

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
QMKYW00147	GBSB	1.000	1.000
QGGG000418	GS74	1.009	1.001
3051393689	GS76	0.958	0.959
QEEE000050	GS79	0.966	0.978
3051745577	GS80	1.002	1.000
3051532166	GS81	0.991	0.996
3053000490	GS92	0.995	1.000
3052368025	GS96	0.890	0.887
3053005598	GS93	0.981	0.985
7105006000			
7105006001			
3052060420	GS95	1.001	0.999
3053006353	GS91	0.902	0.926
3053007186	GS98	0.956	0.955
3053010873	GA01	0.959	0.951
3053012323	GA04	1.005	0.994
3053012322	GA05	0.989	0.987
3053008220	GA03	0.940	0.944
3053007670	GA06	0.963	0.969
3053008146	GS99	0.964	0.963
3053011565	GA02	0.820	1.010
3053012527	GS97	1.007	1.000
3053008174	GA11	0.945	0.965
3053094725	GA09	-	0.987
3053129419	GA10	-	0.987

Table 6 Oaky Creek Coal Network's embedded generation DLFs

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
7102000028	XOCN	0.9800	0.9814
7102000029	XOC2	0.9764	0.9771

Table 7 Capcoal Network's embedded generation DLF

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
7102000033	XCCN	1.0018	1.0068
7102000034	XCCG	N/A	1.0006

Table 8 Moranbah North Coal Mine Network's embedded generation DLF

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
7102000038	XMCN	0.9888	0.9961
7102000039	XMGR	0.9882	0.9917
7102000040	XMG2	0.9882	0.9917

Table 9 Brisbane Airport embedded network DLF

NETWORK LEVEL	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
LV Bus	XBAB	N/A	N/A
LV Line	XBAL	N/A	N/A

Appendix B: Victoria distribution loss factors for 2021/22

Table 10 Approved network average DLFs

Distributors	Distribution loss factors					
	Type	DLF A	DLF B	DLF C	DLF D	DLF E
Jemena	Short Sub-transmission	1.0042	1.0087	1.0172	1.0373	1.0430
	Long Sub-transmission	1.0124	1.0169	1.0253	1.0455	1.0512
CitiPower	Short sub-transmission	1.0040	1.0117	1.0153	1.0412	1.0500
Powercor	Short sub-transmission	1.0035	1.0088	1.0324	1.0562	1.0637
	Long sub-transmission	1.0373	1.0426	1.0662	1.090	1.0975
AusNet Services	Short sub-transmission	1.0036	1.0113	1.0286	1.0494	1.0570
	Long sub-transmission	1.0269	1.0345	1.0519	1.0726	1.0802
United Energy	Short sub-transmission	1.0039	1.0091	1.0149	1.0384	1.0525
	Long sub-transmission	1.0187	1.0240	1.0298	1.0533	1.0673

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
CitiPower	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 11 Approved site-specific DLFs for large load customers

Distributor	Customer NMI	DLF codes	DLF to apply in 2021/22
Jemena	VDDD000495	CVPC	1.0086
	6001280255	CAPA	1.0025
	VDDD000213	CSPL	1.0088
	VDDD000134	CAGP	1.0108
	6001001784	CAHH	1.0130
CitiPower	VAAA000673	ESS4	1.0164
Powercor	VCCCAF0002	KAF1	1.0005
	VCCCAF0001	KAF	1.0068
	VCCDA0031	KDA2	DLF A Short (KAS)
	VCCCGJ0001	KGJ	1.0021
	VCCCRD0007	KRD	1.0096
	6203803617	KBN	1.0082
	VCCDA0025	KDA1	1.0118
	VCCCAD0001	KAD	1.0115
	VCCCSE0004	KSE	1.0484
	VCCBC0025	KBC	1.0311
	VCCCTE0002	KTE	DLF C Long (KCL)
	VCCCSB0012	KSB	1.0524
	VCCCLD0024	KLD	DLF C Short (KCS)
	6203824333	KAT	1.0109
AusNet Services	VBBB000073	LL02	1.0043
	VBBB000161	LL05	1.0005
	VBBB000058	LL01	1.0390
	VBBB000287	LL06	-
United Energy	VEEE0PD8AD	MC05	1.0095
	VEEE0TF39Q	MC06	1.0111
	VEEE0BG4Q3	MC02	1.0125
	VEEE0NDNEX	MC04	1.0231
	6407799056	MC08	1.0169
	VEEE08KH3V	MC01	1.0084
	VEEE0C8AW1	MC03	1.0042

Distributor	Customer NMI	DLF codes	DLF to apply in 2021/22
	VEEE0ATYTH	MC07	1.0156

Table 12 Approved DLFs for large embedded generators

Distributor	NMI	DLF codes	DLF to apply in 2021/22
Jemena	6001264751	CSOG	0.9872
Powercor	6203661632	KCH	0.9689
	6203008782	KCF	1.0323
	6203690629	KYW	1.0323
	6203811032	KOH	0.8907
	6203829699	KML	0.9077
	6203879058	KCB	0.9183
	6203921151	KKW	0.9171
	6203921132	KYS	0.9842
	6203934859	KMG	0.9823
	6203934861	KMG	0.9823
	6203935735	KGS	0.9859
	6203937431	KBP	0.9825
	6203949352		
	6203937741	KKS	0.9797
	6203946314	KWS	0.9985
	6203964878	KYD	0.9845
	6203962945	KNS	0.9871
	6203962946		
	6203960144	KYP	0.9818
	6203990753	KCO	0.9811
6203990754			
AusNet Services	6305656070	LG02	1.0337
	6305010110	LG03	1.0149
	6305651897	LG03	1.0149
	6305721689	LG07	1.0333

Distributor	NMI	DLF codes	DLF to apply in 2021/22
	VBBB002342	LG04	1.0293
	VMBTWZCLPS	LG05	0.9958
	VTTSWZRUBX	LG06	0.9973
	6305908426	LG08	1.007
	6305940506	LG09	1.0199
	6305941257	LG09	1.0199
	6306018714	LG10	1.0089
	6306034976	LG11	0.9992
	6306042131	LG12	0.9998
United Energy	6407649172	MG01	1.0081

Table 13 Gannawarra generation network DLF

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
7102000055	XGW1	0.9901	0.9901
7102000056			
7102000057			
7102000058			
7102000059			

Appendix C: New South Wales distribution loss factors for 2021/22

Table 14 Endeavour Energy's DLFs for tariff classes

Tariff class	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
132 kV Network	HNVL	1.0026	1.0025
Transmission substation	HSTS	1.0062	1.0065
Subtransmission network	HSTL	1.0107	1.0104
Zone substation	HHVT	1.0116	1.0109
High voltage distribution network	HHVL	1.0170	1.0157
Distribution substation	HLVT	1.0477	1.0476
Low voltage network	HLVL	1.0687	1.0682

Table 15 Endeavour Energy's DLFs for embedded generators

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
NEEE000748	HTX2	1.0655	1.0512
NEEE000749	HTX3	1.0257	1.0343
NEEE000750	HTX4	1.0294	1.0376
4310951391	HNC1	1.0005	1.0001

Table 16 Endeavour Energy's DLFs for CRNP Customers

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
4310857952	HTYA	1.0149	1.0144
4310866743	HTXA	1.0083	1.0083
4310942441	HTXB	1.0049	1.0073
4311159207	HTYB	1.0054	1.0050
4311168207	HTYC	1.0044	1.0040
4311275493	HTV8	1.0027	1.0020
4311028276 4311028297 4311246109 4311246110	HHY3	1.0136	1.0121
4311061116 4311061119	HTY3	1.0067	1.0059
4311179347 4311179743	HSTL	1.0107	1.0104

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
4311206443 4311173727	HTX9	1.0041	1.0040
4311251697 4311297310	HTV7	1.0012	1.0013
4311265997 4311265950	HTYE	1.0062	1.0059
4311271253 4311271260	HTV6	1.0012	1.0012
NEEE000003	HTX6	1.0103	1.0101
NEEE000005	HHY1	1.0135	1.0137
NEEE000006	HTY5	1.0497	1.0529
NEEE000014	HTY7	1.0087	1.0110
NEEE000046	HTV2	1.0026	1.0023
NEEE000049	HHV1	1.0134	1.0156
NEEE000066	HTY4	1.0266	1.0261
NEEE000506	HHY4	1.0153	1.0144
NEEE000758 NEEE000759	HIC1	1.0148	1.0144
NEEE000760 NEEE000762 NEEE000764 NEEE000766 NEEE000768	HTV4	1.0071	1.0065
NEEE000881	HTY9	1.0032	1.0078
NEEE001591	HTX5	1.0055	1.0108
NEEE001656	HTV1	1.0035	1.0032
NEEE001892	HTX1	1.0136	1.0150
NEEE004639	HHVT	1.0116	1.0109
NEEE005219	HTX8	1.0074	1.0071
NEEEW00001 NEEEW00002	HTF1	1.0031	1.0028
NEEEW04150 NEEEW04151 NEEEW04152 NEEEW04153 NEEEW04154	HTF2	1.0073	1.0066

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
NEEEW04511 NEEEW04512 NEEEW04513 NEEEW04514	HTF3	1.0024	1.0038

Table 17 Essential Energy's site-specific DLFs

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
4001193201	BS02	0.9375	0.9296
4001185251	BS03	0.9963	0.9970
4001161869	BS32	1.0989	1.0859
NAAA00AC11	BS33	1.0563	1.0481
4001224331	BS35	1.0135	1.0141
NTTTW0RU20	BS37	1.0000	1.0000
NAAANRAB50	BS38	1.0085	1.0102
NAAA00AC21	BS39	1.0339	1.0253
NAAA00AB64	BS40	1.0555	1.0495
NAAANRAA01	BS41	1.0848	1.0651
4001151659	BS43	0.9949	0.9953
4001231299	BS43	0.9949	0.9953
NFFFNRKU39	BS44	0.9969	0.9956
4001175717	BS45	1.0443	1.0335
4508034707	BS46	1.0256	1.0391
4001210762	BS48	0.9852	0.9750
4001231908	BS50	0.9831	0.9720
NAAANRAA02	BS51	1.0046	1.0063
4001223403	BS52	1.0450	1.0413
4001242173	BS53	1.0100	1.0087
4001251721	BS54	0.9820	0.9705
4001246761	BS55	0.9917	0.9838
4001227465	BS56	1.0135	1.0141
4001258249	BS57	0.9591	0.9419
4001241798	BS58	0.9850	0.9835
4001202550	BS60	1.0153	1.0121

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
4001297032	BS61	1.0008	0.9982
4001297033	BS62	0.9956	0.9909
4001298855	BS63	0.9938	0.9983
4001298870	BS63	0.9938	0.9983
NTTTW0W110	UNIT	1.0000	1.0000
4001301126	BS64	0.9597	0.9462
4001322845	BS65	0.9800	0.9803
4001327507	BS66	0.9931	0.9908
NDDD00GA13	BS67	n/a	1.0126
4001292657	BS68	n/a	1.0262
4001213658	BS68	n/a	1.0262
4001221780	BS68	n/a	1.0262
4001328303	BS69	n/a	0.9812
4001330727	BS70	n/a	0.9169
4001319728	BS71	n/a	0.9904

Table 18 Essential Energy's general DLFs

Class	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
Low voltage	BL0A, DLDL, DLD2, DLD6, DLGB, DLGD	1.0664	1.0637
LV & metered at CE substation	BL5A	1.0544	1.0506
High voltage line	BH0A	1.0301	1.0309
High voltage substation	BH5A	1.0185	1.0182
Sub-transmission	BS0A	1.0110	1.0119

Table 19 Ausgrid's DLFs for tariff classes

Tariff code	Tariff name	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
EA010	Residential Non ToU (Closed)	LV system	1.0514	1.0519	JLDL
EA011	Residential Transitional ToU (Closed)	LV system	1.0514	1.0519	JLDL

Tariff code	Tariff name	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
EA025	Residential ToU	LV system	1.0479	1.0484	JL40
EA111	Residential demand (introductory)	LV system	1.0479	1.0484	JL40
EA115	Residential TOU demand	LV system	1.0479	1.0484	JL40
EA116	Residential demand	LV system	1.0479	1.0484	JL40
EA030	Controlled Load 1	LV system	1.0514	1.0519	JL1L
EA040	Controlled Load 2	LV system	1.0514	1.0519	JL2L
EA050	Small Business Non ToU (Closed)	LV system	1.0444	1.0453	JLSL
EA051	Small Business Transitional ToU (Closed)	LV system	1.0444	1.0453	JLSL
EA225	Small Business ToU	LV system	1.0444	1.0453	JLSL
EA251	Small Business demand (introductory)	LV system	1.0444	1.0453	JLSL
EA255	Small Business TOU demand	LV system	1.0444	1.0453	JLSL
EA256	Small Business demand	LV system	1.0444	1.0453	JLSL
EA302	LV 40-160 MWh (System)	LV system	1.0444	1.0453	JLSL
EA305	LV 160-750 MWh (System)	LV system	1.0444	1.0453	JLSL
EA310	LV >750 MWh (System)	LV system	1.0444	1.0453	JLSL
EA316	Transitional 40-160 MWh (Closed)	LV system	1.0444	1.0453	JLSL
EA317	Transitional 160-750 MWh (Closed)	LV system	1.0444	1.0453	JLSL
EA325	LV Connection (Standby Tariff-closed)	LV system	1.0444	1.0453	JLSL
EA360	HV Connection (Standby Tariff - closed)	HV system	1.0123	1.0139	JHSH

Tariff code	Tariff name	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
EA370	HV Connection (System)	HV system	1.0123	1.0139	JHSH
EA380	HV Connection (Substation)	HV substation	1.0088	1.0102	JHBH
EA390	ST Connection	ST System	1.0044	1.0059	JSSS
EA391	ST Connection (Substation)	ST substation	1.0044	1.0059	JSBS
EA401	Public Lighting	LV system	1.0546	1.0563	JLSP
EA402	Constant Unmetered	LV system	1.0445	1.0461	JLSU
EA403	Energy Light	LV system	1.0546	1.0563	JLSP
EA501	Transmission Connection	Transmission	1.0000	1.0000	JTRN

Table 20 Ausgrid's DLFs for Individually Calculated Tariff customers

NMI	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
4103736926	33 kV system	1.0022	1.0063	J550
4103736927	33 kV system	1.0022	1.0063	J550
NCCCNREA06	33/11 kV substations	1.0105	1.0110	J660
4103748279	132 kV system	1.0000	1.0050	J885
4103507254	33 kV system	1.0028	1.0040	JGLB
4103507266	33 kV system	1.0028	1.0040	JGLB
4103841748	33 kV system	1.0028	1.0040	JGLB
NCCCZ01251	33 kV system	1.0047	1.0046	J881
4102016227	33 kV transmission	1.0004	1.0077	JTOL
4102016252	33 kV transmission	1.0004	1.0077	JTOL
4103770084	132 kV system	1.0006	1.0006	J887
4103770085	132 kV system	1.0006	1.0006	J886
NCCCZ01381	33 kV transmission	1.0000	1.0037	J800
4103769153	33 kV system	1.0033	1.0041	J700
4103769154	33 kV system	1.0033	1.0041	J700
NCCCNRP40	132 kV transmission	1.0000	1.0007	JCAP
NCCCNRP50	132 kV transmission	1.0000	1.0007	JCAP

NMI	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
NCCCWRNP60	132 kV transmission	1.0000	1.0007	JCAP
NCCCNRZ1BK	132/33 kV substations	1.0025	1.0031	J635
4103686298	66 kV system	1.0044	1.0059	JSSS
NCCCX00745	33 kV transmission	1.0000	1.0096	J640
NCCCX00746	33 kV transmission	1.0000	1.0096	J640
NCCCX00747	33 kV transmission	1.0000	1.0096	J640
4103507347	132/33 kV substations	1.0066	1.0139	J601
NCCCNRZ1BM	132 kV system	1.0035	1.0018	J580
NCCCX00332	132/66 kV substations	1.0049	1.0045	J590
NCCCNRZZB0	132/33 kV substations	1.0124	1.0061	J610
NCCCX00750	33 kV transmission	1.0009	1.0053	J620
4104004610	33 kV transmission	1.0009	1.0053	J620
4104004602	33 kV transmission	1.0009	1.0053	J620
NCCCX00753	33 kV transmission	1.0009	1.0053	J620
4104060061	33 kV transmission		1.0053	J620
NCCC007211	33 kV system	1.0057	1.0056	J605
NCCCNRZ1BQ	33 kV transmission	1.0032	1.0080	J655
4104053413	33 kV transmission		1.0080	J655
NCCCX00283	132/33 kV substations	1.0031	1.0037	J630
NCCCX00284	132/33 kV substations	1.0031	1.0037	J630
4104036421	132/33 kV substations	1.0031	1.0037	J630
4104036424	132/33 kV substations	1.0031	1.0037	J630
4104036422	132/33 kV substations	1.0031	1.0037	J630
NCCCX00748	132/33 kV substations	1.0046	1.0083	J615
NCCCX00749	132/33 kV substations	1.0046	1.0083	J615
NCCCNRZ1BT	132/33 kV substations	1.0045	1.0053	J645
NCCCX00293	132/33 kV substations	1.0049	1.0028	J600
NCCCX00294	132/33 kV substations	1.0049	1.0028	J600
NCCC002902	66 kV system	1.0069	1.0059	JK23
NCCC002221	66 kV system	1.0166	1.0071	J500
NCCCZ01275	132/33 kV substations	1.0059	1.0068	J560

NMI	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
NCCCNREEK2	33 kV system	1.0145	1.0094	J541
4102030738	33 kV system	1.0012	1.0103	J543
4103628537	33 kV system	1.0012	1.0103	J543
NCCCNRCS90	HV system	1.0123	1.0153	J670
NCCCNRZ1XJ	66 kV system	1.0111	1.0129	J680
NCCCNREA14	132/11 kV substations	1.0130	1.0155	J770
4103798233	66 kV system	1.0172	1.0075	J771
NCCCNREB57	33/11 kV substations	1.0080	1.0082	J772
4103786533	33/11 kV substations		1.0082	J772
NCCCNREB24	132/11 kV substations	1.0096	1.0176	J773
4103598315	132/66 kV substations	1.0217	1.0096	J774
NCCCNREE73	33 kV system	1.0227	1.0283	J775
4103974109	132/66 kV substations	1.0123	1.0084	J777
4103632682	33 kV system	1.0068	1.0076	J778
4103529698	66 kV system	1.0203	1.0140	J779
NCCCNRENB7	132/66 kV substations	1.0113	1.0119	J780
4103768912	132/33 kV substations	1.0029	1.0032	J781
4103768913	132/33 kV substations	1.0030	1.0032	J782
4103831536	132/11 kV substations	1.0027	1.0117	J783
4103828337	66 kV system	1.0197	1.0100	J784
4103788882	66 kV system	1.0135	1.0094	J785
NCCCNREA08	66 kV system	1.0148	1.0084	J786
4103981057	33 kV system	1.0020	1.0024	J787
4103526370	66 kV system	1.0244	1.0089	J788
NCC CZ01111	HV system	1.0136	1.0035	J789
NCCCNREB14	HV system	1.0192	1.0192	J790
4103679814	33 kV system		1.0172	J791
4103822730	132/11 kV substations		1.0066	J792
4103822729	132/11 kV substations		1.0066	J792
4103789328	132/11 kV substations		1.0135	J793
4103801361	132/11 kV substations		1.0135	J793

NMI	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
4104057641	132/11 kV substations		1.0135	J793
4104057640	132/11 kV substations		1.0135	J793
4104014840	132 kV system		1.0029	J794
4104057286	132 kV system		1.0029	J794

Table 21 Ausgrid's DLF's for embedded generators

NMI	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF code
NCCC007498	33 kV system	1.0041	-	JGEN
NCCCNRGB10	HV system	1.0123	-	JK24
NCCCNRME11	33 kV system	1.0041	1.0056	JGEN
NCCCNRME10	33 kV system	1.0041	1.0056	JGEN
4104065006	33 kV system		0.9350	JGN1

Table 22 One Steel's embedded network DLFs

NMI	Location	DLF applied in 2020/21	DLF to apply in 2021/22	DLF Code
7102000008,7102000010	11 kV	1.0278	1.0278	XON2

Appendix D: Australian Capital Territory distribution loss factors for 2021/22

Table 23 Evoenergy's distribution DLFs

Connection	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
High voltage	AH00	1.0111	1.0106
Low voltage	AL00	1.0447	1.0430

Table 24 Evoenergy's site-specific DLFs

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
NGGG000294	AS01	1.0136	1.0176
NGGG000269	AS02	1.0152	1.0104
7001197618	AS04	0.9998	0.9997
7001317224	AS06	0.9985	0.9985
7001319704	AS07	0.9994	0.9990

Appendix E: South Australia distribution loss factors for 2021/22

Table 25 SA Power Network's distribution connection point class DLFs

Class	Tariff	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
Low voltage small customers	Unmetered	NLV2	1.1070	1.1170
	Residential	NLV2	1.1070	1.1170
	Controlled Load (HW)	NLV2	1.1070	1.1170
	Small LV Business	NLV2	N/A	1.1170
	Small Business Single Rate	NLV2	1.1070	N/A
	Small Business Two Rate	NLV2	1.1070	N/A
	Small Business Demand	NLV2	1.1070	N/A
LV large business	Large LV Business	NLV1	N/A	1.0985
	Large LV Business Demand	NLV1	1.0840	N/A
HV large business	Large HV Business	NHV1	N/A	1.0503
	HV Demand Two Rate	NHV1	1.0510	N/A
Major business	Substation Non Locational	NZS1	1.0230	1.0265
	Sub-transmission Non Locational	NST1	1.0230	1.0163

Table 26 SA Power Network's site-specific DLFs

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
2001000378	NBA1	1.0010	1.0010
2001000608	NAC2	1.0080	1.0080
2002112609	NKC4	1.0100	1.0100
2002213788	NHN1	1.0030	1.0030
2002216840	NDS1	1.0080	N/A
2002257162	NRT1	1.0040	1.0050
2002276228	NRA1	1.0100	1.0100
2002280161	NDS2	1.0080	N/A
2002280161	NDS4	1.0100	1.0100
2002280161	NDS5	-	1.0110
SAAAAAA018	NPS1	1.0000	1.0000

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
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
SAAAAAA438	NIF1	1.0100	1.0100
SAAAAAB557	NOS2	1.0000	1.0000
SAAAAAE766	NBO1	0.9930	0.9930

Table 27 SA Power Network's embedded generator DLFs

NMI	DLF code	DLF applied in 2020/21	DLF to apply in 2021/22
2001000639	NCL1	1.0020	1.0020
2001000640	NCL1	1.0020	1.0020
2001000734	NSHW	0.9950	0.9950
2001830001	NTGN	1.0000	1.0000
2001830002	NTGS	1.0030	1.0030
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	1.0100	1.0100
2002355844	NDS8	-	1.0110
2002355850	NB09	0.9930	0.9930
2002356073	NHA9	0.9730	0.9730

Appendix F: Tasmania distribution loss factors for 2021/22

The AER has approved the following distribution loss factors for Tasmania for the 2021/22 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 28 TasNetworks' Hobart region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Hobart	PHST	1.0056
Zone substation	Hobart	PHZN	1.0084
HV distribution network	Hobart	PHHV	1.0135
Distribution substation	Hobart	PHDS	1.0324
LV distribution network	Hobart	PHLV	1.0583

Table 29 TasNetworks' Tamar region (incorporating Launceston) DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Tamar	PTST	1.0056
Zone substation	Tamar	PTZN	1.0084
HV distribution network	Tamar	PTHV	1.0135
Distribution substation	Tamar	PTDS	1.0324
LV distribution network	Tamar	PTLV	1.0583

Table 30 TasNetworks' East Coast region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	East Coast	PEST	1.0056
Zone substation	East Coast	PEZN	1.0084
HV distribution network	East Coast	PEHV	1.0135
Distribution substation	East Coast	PEDS	1.0324
LV distribution network	East Coast	PELV	1.0583

Table 31 TasNetworks' North West region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	North West	PNST	1.0056
Zone substation	North West	PNZN	1.0084
HV distribution network	North West	PNHV	1.0135
Distribution substation	North West	PNDS	1.0324
LV distribution network	North West	PNLV	1.0583

Table 32 TasNetworks' Derwent region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Derwent	PDST	1.0056
Zone substation	Derwent	PDZN	1.0084
HV distribution network	Derwent	PDHV	1.0135
Distribution substation	Derwent	PDDS	1.0324
LV distribution network	Derwent	PDLV	1.0583

Table 33 TasNetworks' Southern region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Southern	PSST	1.0056
Zone substation	Southern	PSZN	1.0084
HV distribution network	Southern	PSHV	1.0135
Distribution substation	Southern	PSDS	1.0324
LV distribution network	Southern	PSLV	1.0583

Table 34 TasNetworks' West Coast region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	West Coast	PWST	1.0056
Zone substation	West Coast	PWZN	1.0084
HV distribution network	West Coast	PWHV	1.0135
Distribution substation	West Coast	PWDS	1.0324
LV distribution network	West Coast	PWLV	1.0583

Table 35 TasNetworks' site-specific DLFs

NMI	Region	DLF code	DLF
8000003578	West Coast	PBSM	1.0132
8000003585	North West	PACH	1.0000
8000003868	West Coast	PHGM	1.0000

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	Alexandra Sidorenko, Network Pricing Manager >, Senior Distribution Pricing Analyst	02 9269 4360
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	Leylann Hinch, Group Manager Strategy and Operations	02 6248 3813
Jemena	Siva Moorthy Network Regulation Manager	03 9173 8774
Powercor Australia Ltd and CitiPower Pty Ltd	Adam Ryan, Network Optimisation Manager	03 9683 4380
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