DISTRIBUTION LOSS FACTORS FOR THE 2019/20 FINANCIAL YEAR

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1.0	29/03/2019	Posted on the AEMO website in accordance with clause 3.6.3(i) of the National Electricity Rules.
2.0	23/05/2019	New DLF for Gannawarra Generation Network XGW1 New DLF for Yarranlea Solar Farm GA06 New DLF for Brigalow Solar Farm (Maryrorough Solar) GA03
3.0	25/06/2019	New NMIs for Oakey Solar Farm GS93 New NMI for Tahmoor Embedded Network (DLF code HTX1)
4.0	28/06/2019	Updated DLF for Wirsol Clermont Solar Farm GS99 Updated DLF for Kennedy Energy Park GA02 Updated DLF for Tableland Mill GS97

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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 2019/20

The Queensland DLFs for the 2019/20 financial year are tabulated in Appendix A.

The Victorian DLFs for the 2019/20 financial year are tabulated in Appendix B.

The NSW DLFs for the 2019/20 financial year are tabulated in Appendix C.

The ACT DLFs for the 2019/20 financial year are tabulated in Appendix D.

The South Australian DLFs for the 2019/20 financial year are tabulated in Appendix E.

The Tasmanian DLFs for the 2019/20 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 2019/20

Table 1 Energex's average DLFs

Network level	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
110 kV connected	FSSS	1.0037	1.00463
33 kV connected	F3CL	1.0090	1.01085
11 kV bus connected	F1ZH	1.0131	1.01537
11 kV line connected	F1CH	1.0198	1.02311
LV bus connected	F1CL	1.0387	1.04218
LV line connected	FLCL	1.0534	1.05592

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

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
3120081063	FALK	1.01448	1.01082
QB13708848	FBEP	1.00881	1.01067
QB13786415	FBOC	1.00903	1.01264
QB03188493	FBRR	1.00646	1.00841
QB07156049	FBAC	1.01226	1.01382
3116941403	FAPB	1.01340	1.01354
3120007259	FLMD	1.01244	1.01377
QB03674681	FCAL	1.01247	1.00959
QB03187888	FQCL	1.03776	1.04186
3120032960	FCLT	1.00450	1.00528
3120033076	FCST	1.00470	1.00340
QB00011835	FCRL	1.03086	1.02581
3120167431	FEAN	1.00678	1.00721
3120167432	FEAS	1.00635	1.00752
3117267111	FTD	1.00860	1.00720
3120001083	FRAF	1.01749	1.01806
QB03017958	FQUE	1.00882	1.00725
3117524016	FGBI	1.00622	1.00479
3120048897	FGHP	1.00792	1.00795

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
QB08899177	FHYS	1.04984	1.05012
QB03675327	FICT	1.00932	1.00972
QB00702307	FSFT	1.01374	1.01161
QB08144664	FACI	1.08795	1.08215
3120085619	FLWH	1.00105	1.00636
3120085617	FLWT	1.00591	1.00090
3117238161	FLGP	1.01431	1.01225
3120081891	FNBW	1.13083	1.12115
QB03674177	FQG	1.01333	1.01622
QB05747155	FPCF	1.01424	1.01342
QB09709916	FQBH	1.00031	1.00030
QB09750568	FQB	1.00263	1.00170
QB05850851	FQBW	1.00235	1.01047
QB07417373	FQCB	1.04304	1.00969
QB03187390	FQC	1.00003	1.00003
QB07480580	FQL	1.00070	1.00069
3120253094	FQP	1.00724	1.01004
QB12757888	FQR	1.00039	1.00035
3120090363	FQRS	1.00022	1.00027
3120253056	FQRW	1.00651	1.00524
QB08485399	FQT	1.00806	1.00703
3117476607	FQW	1.00076	1.00080
QB03675025	FPAH	1.01613	1.01767
3120134803	FQCH	1.00611	1.00655
QB03674151	FRBH	1.00764	1.00895
QB08051828	FHDU	1.01355	1.04421
QB06480217	FHDL	1.00717	1.00543
QB08045917	FMRP	1.05236	1.05928
QB00703630	FBCC	1.01274	1.01116
QB02572559	FNPD	1.02176	1.02607
QMRGW00156	FSWP	1.01429	1.00730
QB00547778	FSBB	1.03060	1.03191

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
3120152640	FSUH	1.01174	1.01358
QB07047011	FSTC	1.01272	1.01123
3116852575	FUQ1	1.00592	1.00526
3120301348	FUQC	1.02713	1.03233
QB12021814	FVP	1.00233	1.00827
QB09455507	FSC	1.00955	1.00700
QB03188523	FWGC	1.00576	1.00509
3116578384	FEIB	1.01568	1.01623
3120349332	FLEA	-	1.01954
3120660775	FLEM	-	1.04057
QB14097800	FRPT	1.00506	1.00249
3120309278	FSHG	-	1.15806
3117546923	FTTB	1.03923	1.04307
3120301290	FVSF	1.07431	1.06110
3114538695	FWHG	1.07612	1.09170

Table 3 Ergon Energy's tariff class DLFs

NETWORK LEVEL	DLF applied in 2018/19			DLF to apply in 2019/20		
	East	West	MI	East	West	MI
Sub-Trans. Bus	1.007	1.026	1.000	1.006	1.037	1.000
Sub-Trans. Line	1.012	1.064	1.005	1.012	1.062	1.004
22/11 kV Bus	1.016	1.070	1.007	1.016	1.063	1.007
22/11 kV Line	1.036	1.103	1.035	1.036	1.095	1.035
LV Bus	1.075	1.149	1.066	1.071	1.144	1.065
LV Line	1.087	1.171	1.073	1.075	1.161	1.076

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 2018/19	DLF to apply in 2019/20
QAAALV0001	GBSB	1.000	1.000
QAAABW0000	GBSB	1.000	1.000
QAAABW0002	GS02	1.006	1.009
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	1.006	1.009
QCCC000004	GS19	1.030	1.069
QCCC000002	GS18	1.004	1.000
QAAABW0001	GS51	1.004	1.000
QDDD000003	GS21	1.002	1.001
QAAALV0000	GBSB	1.000	1.000
QGGG000394	GS40	1.095	1.095
QWAGW00066	GS65	1.010	1.005
QAAABX0014	GS69	1.006	1.001
QEMS000001	GS64	1.009	1.008
QAAALV0002	GBSB	1.000	1.000
QCCC000003	GBSB	1.000	1.000
QCCC000012	GS85	1.065	1.096
QAAALV0004	GBSB	1.000	1.000
QAAABX0012	GS70	1.001	1.000

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
3051111985	GS06	1.006	1.003
QAAARG0000	GS14	1.005	1.004
QAAAMR0001	GS13	1.004	1.000
QAAABW0041	GS62	1.019	1.013
QAAALX0000	GS12	1.020	1.014
3051844184	GS84	1.000	1.001
3051467399	GS86	1.008	1.013
QCCC000020	GS82	1.008	1.009
QDDD000028	GS87	1.008	1.007
3051745071	GS22	1.001	1.000
3051492237	GS89	1.000	1.000
3051988348	GS90	1.002	1.001
QDDD003342	GS88	1.012	1.017
QCCC000018	GS83	1.006	1.001
3052303675	GBSB	1.000	1.000
3052261476	GBSB	1.000	1.000
QGGG000000	GA07	-	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 2018/19	DLF to apply in 2019/20
QEEE000547	GS26	0.992	0.999
QEEE000026	GS55	0.978	0.987
QCQPW00076	GS49	0.950	0.985
QFFF000010	GS29	0.976	0.950
QFFF00000Z	GS30	0.976	0.950
QCCC001041	GS67	0.976	0.984
QDDD003206	GS71	1.000	0.998
3052323901	GBSB	1.000	1.000
QCCC001036	GS56	0.988	0.981
QMKYW00147	GBSB	1.000	1.000

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
QGGG000418	GS74	1.000	0.998
3051393689	GS76	0.948	0.939
QEEE000050	GS79	0.977	0.974
3051745577	GS80	0.994	0.998
3051532166	GS81	0.987	0.991
3053000490	GS92	0.999	1.005
3052368025	GS96	0.897	0.890
3053005598	GS93	0.988	0.988
7105006000			
7105006001			
3052060420	GS95	1.000	1.000
3053006353	GS91	0.898	0.876
3053007186	GS98	0.954	0.954
3053010873	GA01	0.946	0.952
3053012323	GA04	-	0.993
3053012322	GA05	-	0.991
3053008220	GA03	-	0.940
3053007670	GA06	-	0.963
3053008146	GS99	0.964	0.964
3053011565	GA02	0.820	0.820
3053012527	GS97	0.991	0.991

Table 6 Oaky Creek Coal Network's embedded generation DLFs

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
7102000028	XOCN	0.9791	0.98
7102000029	XOC2	0.9763	0.9764

Table 7 Capcoal Network's embedded generation DLF

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
7102000033	XCCN	0.9969	0.9992

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

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
7102000038	XMCN	0.9959	0.9961
7102000039	XMGR	0.9931	0.9917
7102000040	XMG2	0.9931	0.9917

Table 9 Brisbane Airport embedded network DLF

NETWORK LEVEL	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
LV Bus	XBAB	1.01370	1.01370
LV Line	XBAL	1.05677	1.05677

Appendix B:
Victoria distribution loss factors for 2019/20

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	1.0043	1.0092	1.0205	1.0357	1.0418
	Long Sub-transmission	1.0138	1.0187	1.0299	1.0451	1.0513
CitiPower	Short sub-transmission	1.0042	1.0124	1.0160	1.0413	1.0474
Powercor	Short sub-transmission	1.0039	1.0095	1.0343	1.0598	1.0682
	Long sub-transmission	1.0353	1.0409	1.0657	1.0912	1.0996
AusNet Services	Short sub-transmission	1.0018	1.0093	1.0299	1.0510	1.0583
	Long sub-transmission	1.0187	1.0262	1.0468	1.0680	1.0752
United Energy	Short sub-transmission	1.0040	1.0099	1.0151	1.0426	1.0570
	Long sub-transmission	1.0184	1.0243	1.0295	1.0569	1.0714

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 2019/20
Jemena	VDDD000495	CVPC	1.0081
	6001280255	CAPA	1.0033
	VDDD000213	CSPL	1.0100
	VDDD000134	CAGP	1.0118
	6001001784	CAHH	1.0147
CitiPower	VAAA000673	ESS4	1.0164
Powercor	VCCCAF0002	KAF1	1.0005
	VCCCAF0001	KAF	1.0068
	VCCCDA0031	KDA2	DLF A Short (KAS)
	VCCCGJ0001	KGJ	1.0020
	VCCCRD0007	KRD	1.0074
	VCCCDA0025	KDA1	1.0089
	VCCCAD0001	KAD	1.0155
	VCCCSE0004	KSE	1.0472
	VCCCBC0025	KBC	1.0334
	VCCCTE0002	KTE	1.0459
	VCCCSB0012	KSB	1.0567
	6203803617	KBN	1.0086
	VCCCLD0024	KLD	1.0074
AusNet Services	VBBB000073	LL02	1.0026
	VBBB000161	LL05	1.0045
	VBBB000058	LL01	1.0310
	VBBB000287	LL06	1.0462
United Energy	VEEE0PD8AD	MC05	1.0106
	VEEE0TF39Q	MC06	1.0123
	VEEE0BG4Q3	MC02	1.0175
	VEEE0NDNEX	MC04	1.0272
	6407799056	MC08	1.0188
	VEEE08KH3V	MC01	1.0098
	VEEE0C8AW1	MC03	1.0058
	VEEE0ATYTH	MC07	1.0208

Table 12 Approved DLFs for large embedded generators

Distributor	NMI	DLF codes	DLF to apply in 2019/20
Jemena	6001264751	CSOG	0.9891
Powercor	6203661632	KCH	0.9638
	6203008782	KCF	1.0428
	6203690629	KYW	1.0428
	6203811032	KOH	0.8906
	6203829699	KML	0.9042
	6203879058	KCB	1.0133
	6203921151	KKW	0.9179
	6203921132	KYS	1.0046
	6203934859	KMG	0.9580
	6203934861	KMG	0.9580
	6203935735	KGS	0.9951
	6203937431	KBP	0.9774
	6203949352		
	6203937741	KKS	0.9886
	6203946314	KWS	0.9986
	6203964878	KYD	0.9845
	6203962945	KNS	0.9927
	6203962946		
AusNet Services	6305656070	LG02	1.0386
	6305010110	LG03	1.0338
	6305651897	LG03	1.0338
	6305721689	LG07	1.0395
	VBBB002342	LG04	1.0280
	VMBTWZCLPS	LG05	0.9945
	VTTSWZRUBX	LG06	1.0294
	6305908426	LG08	1.0016
	6305940506	LG09	1.0237
	6305941257	LG09	1.0237

Distributor	NMI	DLF codes	DLF to apply in 2019/20
United Energy	6407649172	MG01	1.0101

Table 13 Gannawarra generation network DLF

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
7102000055	XGW1	0.986	0.9951
7102000056			
7102000057			
7102000058			
7102000059			

Appendix C:
New South Wales distribution loss factors for 2019/20

Table 14 Endeavour Energy's DLFs for tariff classes

Tariff class	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
132 kV Network	HNVL	1.0026	1.0022
Transmission substation	HSTS	1.0062	1.0057
Subtransmission network	HSTL	1.0092	1.0090
Zone substation	HHVT	1.0101	1.0101
High voltage distribution network	HHVL	1.0154	1.0148
Distribution substation	HLVT	1.0437	1.0416
Low voltage network	HLVL	1.0648	1.0628

Table 15 Endeavour Energy's DLFs for embedded generators

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
NEEE000748	HTX2	0.9981	0.9837
NEEE000749	HTX3	1.0179	1.0065
NEEE000750	HTX4	1.0170	1.0100
4310951391	HNC1	0.9994	0.9998

Table 16 Endeavour Energy's DLFs for CRNP Customers

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
NEEE000003	HTX6	1.0106	1.0106
NEEE000005	HHY1	1.0115	1.0137
NEEE000006	HTY5	1.0356	1.0408
NEEE000014	HTY7	1.0084	1.0134
NEEE000046	HTV2	1.0029	1.0028
NEEE000049	HHV1	1.0106	1.0148
NEEE000066	HTY4	1.0264	1.0288
NEEE000506	HHY4	1.0113	1.0145
NEEE000707	HHVL	1.0259	1.0148
NEEE000758 NEEE000759	HIC1	1.0126	1.0140

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
NEEE000760 NEEE000762 NEEE000764 NEEE000766 NEEE000768	HTV4	1.0075	1.0078
4311061116 4311061119	HTY3	1.0064	1.0073
NEEE001591	HTX5	1.0127	1.0169
4311028276 4311028297 4311246109 4311246110	HHY3	1.0129	1.0128
NEEE001656	HTV1	1.0035	1.0033
NEEE001892	HTX1	1.0145	1.0190
4319900786			
NEEEW00001 NEEEW00002	HTF1	1.0008	1.0036
NEEEW04150 NEEEW04151 NEEEW04152 NEEEW04153 NEEEW04154	HTF2	1.0068	1.0073
NEEE005219	HTX8	1.0076	1.0077
4311206443 4311173727	HTX9	1.0037	1.0046
NEEE004639	HHY7	1.0107	1.0125
4310857952	HSTL	1.0174	1.0090
4310866743	HTXA	1.0086	1.0086
4311159207	HTYB	1.0058	1.0060
4311168207	HTYC	1.0110	1.0048
4310942441	HTXB	1.0063	1.0099
NEEEW04511	HTF3	-	1.0031
NEEEW04512			
NEEEW04513			
NEEEW04514			
4311179347 4311179743	HTYD	1.0092	1.0033

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
4311271253 4311271260	HTV6	1.0026	1.0007
4311251697 4311297310	HTV7	1.0026	1.0011
4311275493	HTV8	-	1.0013
4311265997 4311265950	HTYE	1.0154	1.0060

Table 17 Essential Energy's site-specific DLFs

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
4001193201	BS02	0.9671	0.9381
4001185251	BS03	1.0174	0.9991
4001161869	BS32	1.1080	1.1057
NAAA00AC11	BS33	1.0851	1.0634
4001224331	BS35	1.0133	1.0121
NTTTW0RU20	BS37	1.0000	1.0000
NAAANRAB50	BS38	1.0164	1.0192
NAAA00AC21	BS39	1.0210	1.0444
NAAA00AB64	BS40	1.0827	1.0610
NAAANRAA01	BS41	1.1264	1.1039
4001151659	BS43	1.0193	0.9882
4001231299	BS43	1.0193	0.9882
NFFFNRKU39	BS44	0.9964	.9942
4001175717	BS45	1.0450	1.0514
4508034707	BS46	1.0492	1.0578
4001210762	BS48	0.9853	0.9905
4001231908	BS50	0.9764	0.9788
NAAANRAA02	BS51	1.0084	1.0100
4001223403	BS52	1.0521	1.0449
4001242173	BS53	1.0065	1.0099
4001251721	BS54	0.9832	0.9820
4001246761	BS55	0.9917	0.9913
4001227465	BS56	1.0133	1.0121

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
4001258249	BS57	0.9757	0.9805
4001241798	BS58	0.9835	0.9751
4001202550	BS60	1.0066	1.0123
4001297032	BS61	0.9832	1.0033
4001297033	BS62	0.9984	1.0013
4001298855	BS63	0.9929	0.9960
4001298870	BS63	0.9929	0.9960
NTTTW0W110	UNIT	1.0000	1.0000

Table 18 Essential Energy's general DLFs

Class	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
Low voltage	BL0A, DLDL, DLD2, DLD6, DLGB, DLGD	1.0745	1.0691
LV & metered at CE substation	BL5A	1.0556	1.0554
High voltage line	BH0A	1.0328	1.0320
High voltage substation	BH5A	1.0195	1.0191
Sub-transmission	BS0A	1.0108	1.0099

Table 19 Ausgrid's DLFs for tariff classes

Tariff code	Tariff class	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF code
EA010	Residential Non ToU (Closed)	LV system	1.0544	1.0532	JLDL
EA011	Transitional Residential ToU (Closed)	LV system	1.0544	1.0532	JLDL
EA025	Residential ToU (Closed)	LV system	1.0480	1.0500	JL40
EA111	Residential demand (introductory)	LV system	--	1.0500	JL40
EA115	Residential TOU demand	LV system	--	1.0500	JL40
EA116	Residential demand	LV system	--	1.0500	JL40
EA030	Controlled Load 1	LV system	1.0544	1.0532	JL1L

Tariff code	Tariff class	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF code
EA040	Controlled Load 2	LV system	1.0544	1.0532	JL2L
EA050	Small Business Non ToU (Closed)	LV system	1.0477	1.0460	JLSL
EA051	Transitional Small Business ToU (Closed)	LV system	1.0477	1.0460	JLSL
EA225	Small Business ToU (Closed)	LV system	1.0477	1.0460	JLSL
EA251	Small Business demand (introductory)	LV system	--	1.0460	JLSL
EA255	Small Business TOU demand	LV system	--	1.0460	JLSL
EA256	Small Business demand	LV system	--	1.0460	JLSL
EA302	LV 40-160 MWh (System)	LV system	1.0477	1.0460	JLSL
EA305	LV 160-750 MWh (System)	LV system	1.0477	1.0460	JLSL
EA310	LV >750 MWh (System)	LV system	1.0477	1.0460	JLSL
EA316	Transitional 40-160 MWh (Closed)	LV system	1.0477	1.0460	JLSL
EA317	Transitional 160-750 MWh (Closed)	LV system	1.0477	1.0460	JLSL
EA325	LV Connection (Standby Tariff-closed)	LV system	1.0477	1.0460	JLSL
EA360	HV Connection (Standby Tariff - closed)	HV system	1.0197	1.0127	JHSH
EA370	HV Connection (System)	HV system	1.0197	1.0127	JHSH
EA380	HV Connection (Substation)	HV substation	1.0164	1.0090	JHBH
EA390	ST Connection	ST System	1.0095	1.0048	JSSS
EA391	ST Connection (Substation)	ST substation	1.0095	1.0048	JSBS
EA401	Public Lighting	LV system	1.0609	1.0568	JLSP
EA402	Constant Unmetered	LV system	1.0505	1.0461	JLSU

Tariff code	Tariff class	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF code
EA403	Energy Light	LV system	1.0609	1.0568	JLSP
EA501	Transmission Connection	Transmission	1.0000	1.0000	JTRN

Table 20 Ausgrid's DLFs for CRNP customers

NMI	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF code
4103736926	33 kV system	1.0020	1.0023	J550
4103736927	33 kV system	1.0020	1.0023	J550
NCCCNREA06	33/11 kV substations	1.0108	1.0116	J660
4103748279	132 kV system	1.0000	1.0000	J885
4103507254	33 kV system	1.0021	1.0037	JGLB
4103507266	33 kV system	1.0021	1.0037	JGLB
4103841748	33 kV system	1.0021	1.0037	JGLB
NCCCNRNP40	132 kV transmission	1.0000	1.0000	JCAP
NCCCNRNP50	132 kV transmission	1.0000	1.0000	JCAP
NCCCWRNP60	132 kV transmission	1.0000	1.0000	JCAP
NCCCZ01251	33 kV system	1.0032	1.0044	J881
4102016227	33 kV transmission	1.0010	1.0006	JTOL
4102016252	33 kV transmission	1.0010	1.0006	JTOL
4103770084	132 kV transmission	1.0009	1.0007	J887
4103770085	132 kV transmission	1.0009	1.0007	J886
NCCCZ01381	33 kV transmission	1.0011	1.0008	J800
4103769153	33 kV system	1.0067	1.0033	J700
4103769154	33 kV system	1.0067	1.0033	J700
NCCCNRZ1BK	132/33 kV substations	1.0041	1.0026	J635
4103686298	66 kV system	1.0095	1.0048	JSSS
NCCCX00745	33 kV transmission	1.0011	1.0004	J640
NCCCX00746	33 kV transmission	1.0011	1.0004	J640
NCCCX00747	33 kV transmission	1.0011	1.0004	J640
4103507347	132/33 kV substations	1.0040	1.0076	J601
NCCCNRZ1BM	132 kV system	1.0040	1.0049	J580

NMI	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF code
NCCCX00332	132/66 kV substations	1.0001	1.0045	J590
NCCCNRZZB0	132/33 kV substations	1.0117	1.0087	J610
NCCCX00750	33 kV transmission	1.0020	1.0008	J620
4104004610	33 kV transmission	1.0020	1.0008	J620
4104004602	33 kV transmission	1.0020	1.0008	J620
NCCCX00753	33 kV transmission	1.0020	1.0008	J620
NCCC007211	33 kV system	1.0062	1.0056	J605
NCCCNRZ1BQ	33 kV transmission	1.0004	1.0046	J655
NCCCX00283	132/33 kV substations	1.0047	1.0031	J630
NCCCX00284	132/33 kV substations	1.0047	1.0031	J630
NCCCX00748	132/33 kV substations	1.0036	1.0054	J615
NCCCX00749	132/33 kV substations	1.0036	1.0054	J615
NCCCNRZ1BT	132/33 kV substations	1.0026	1.0048	J645
NCCCX00293	132/33 kV substations	1.0092	1.0068	J600
NCCCX00294	132/33 kV substations	1.0092	1.0068	J600
NCCC002902	66 kV system	1.0050	1.0070	JK23
NCCC002221	66 kV system	1.0080	1.0160	J500
NCCCZ01275	132/33 kV substations	1.0076	1.0070	J560
NCCCNREEK2	33 kV system	1.0065	1.0123	J541
4102030738	33 kV system	1.0082	1.0012	J543
4103628537	33 kV system	1.0082	1.0012	J543
NCCCNRCS90	HV system	1.0120	1.0134	J670
NCCCNRZ1XJ	66 kV system	1.0276	1.0311	J680
NCCCNREA14	132/11 kV substations	1.0179	1.0089	J770
4103798233	66 kV system	1.0117	1.0202	J771
NCCCNREB57	33/11 kV substations	1.0197	1.0094	J772
NCCCNREB24	132/11 kV substations	1.0336	1.0166	J773
4103598315	132/66 kV substations	1.0084	1.0148	J774
NCCCNREE73	33 kV system	1.0180	1.0472	J775
4103974109	132/66 kV substations	1.0050	1.0088	J777
4103632682	33 kV system	1.0143	1.0164	J778

NMI	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF code
4103529698	66 kV system	1.0101	1.0183	J779
NCCCNRENB7	132/66 kV substations	1.0156	1.0084	J780
4103768912	132/33 kV substations	1.0030	1.0032	J781
4103768913	132/33 kV substations	1.0030	1.0030	J782
4103831536	132/11 kV substations	1.0030	1.0028	J783

Table 21 Ausgrid's DLF's for embedded generators

NMI	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF code
NCCC007498	33 kV system	1.0096	1.0043	JGEN
NCCCNRGB10	HV system	1.0195	1.0128	JK24
NCCCNRME11	33 kV system	1.0096	1.0043	JGEN
NCCCNRME10	33 kV system	1.0096	1.0043	JGEN

Table 22 One Steel's embedded network DLFs

NMI	Location	DLF applied in 2018/19	DLF to apply in 2019/20	DLF Code
7102000008,7102000010	11 kV	1.0520	1.0330	XON2

Appendix D:
Australian Capital Territory distribution loss factors for 2019/20

Table 23 Evoenergy's distribution DLFs

Connection	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
High voltage	AH00	1.0153	1.0136
Low voltage	AL00	1.0467	1.0471

Table 24 Evoenergy's site-specific DLFs

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
NGGG000294	AS01	1.0130	1.0062
NGGG000269	AS02	1.0137	1.0100
7001197618	AS04	0.9997	0.9997
7001317224	AS06	0.9984	0.9983
7001319704	AS07	0.9983	0.9990

Appendix E:
South Australia distribution loss factors for 2019/20

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

Class	Tariff	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
Low voltage small customers	Unmetered	NLV2	1.1100	1.1010
	Residential	NLV2	1.1100	1.1010
	Controlled Load (HW)	NLV2	1.1100	1.1010
	Small Business Single Rate	NLV2	1.1100	1.1010
	Small Business Two Rate	NLV2	1.1100	1.1010
	Small Business Demand	NLV2	1.1100	1.1010
LV large business	Large LV Business Demand	NLV1	1.0880	1.0800
HV business	HV Demand Two Rate	NHV1	1.0520	1.0480
Major business	Substation Non Locational	NZS1	1.0240	1.0220
	Sub-transmission Non Locational	NZS1	1.0240	1.0220

Table 26 SA Power Network's site-specific DLFs

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
2001000378	NBA1	1.0010	1.0010
2001000608	NAC2	1.0120	1.0080
2002112609	NKC4	1.0100	1.0100
2002133131	NGM2	NA	N/A
2002213788	NHN1	1.0020	1.0030
2002213796	NHN2	1.0020	1.0030
2002216840	NDS1	1.0130	1.0160
2002276228	NRA1	1.0070	1.0090
2002276230	NRA2	1.0110	1.0120
2002280161	NDS2	1.0130	1.0160
2002257162	NRT1	1.0030	1.0020
2002257164	NRT1	1.0030	1.0020
SAAAAAA018	NPS1	1.0000	1.0000
SAAAAAA021	NPS3	1.0070	1.0070
SAAAAAA022	NGM1	NA	N/A

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
SAAAAAA024	NAB1	1.0070	1.0100
SAAAAAA035	NGT1	1.0060	1.0070
SAAAAAA084	NOS1	1.0010	1.0000
SAAAAAA438	NIF1	1.0110	1.0100
SAAAAAB557	NOS2	1.0000	1.0010

Table 27 SA Power Network's embedded generator DLFs

NMI	DLF code	DLF applied in 2018/19	DLF to apply in 2019/20
2001000639	NCL1	1.0090	1.0050
2001000640	NCL1	1.0090	1.0050
2001000734	NSHW	1.0090	0.9950
2001830001	NTGN	1.0030	1.0000
2001830002	NTGS	0.9980	1.0000
2002108658	NCDW	0.9730	0.9720
2002108660	NAS1	0.9970	0.9890
2002108661	NAS2	0.9970	0.9890
2002220776	NSP1	1.0040	1.0030
2002221495	NSP2	1.0040	1.0030

Appendix F:
Tasmania distribution loss factors for 2019/20

The AER has approved the following distribution loss factors for Tasmania for the 2019/20 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	1.0046
Zone substation	Hobart	PHZN	1.0065
HV distribution network	Hobart	PHHV	1.0124
Distribution substation	Hobart	PHDS	1.0266
LV distribution network	Hobart	PHLV	1.0394

Table 29 TasNetworks' Tamar region (incorporating Launceston) DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Tamar	PTST	1.0000
Zone substation	Tamar	PTZN	1.0000
HV distribution network	Tamar	PTHV	1.0077
Distribution substation	Tamar	PTDS	1.0251
LV distribution network	Tamar	PTLV	1.0428

Table 30 TasNetworks' East Coast region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	East Coast	PEST	1.0000
Zone substation	East Coast	PEZN	1.0000
HV distribution network	East Coast	PEHV	1.0237
Distribution substation	East Coast	PEDS	1.0548
LV distribution network	East Coast	PELV	1.0820

Table 31 TasNetworks' North West region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	North West	PNST	1.0000
Zone substation	North West	PNZN	1.0000
HV distribution network	North West	PNHV	1.0133
Distribution substation	North West	PNDS	1.0356
LV distribution network	North West	PNLV	1.0539

Table 32 TasNetworks' Derwent region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Derwent	PDST	1.0000
Zone substation	Derwent	PDZN	1.0000
HV distribution network	Derwent	PDHV	1.0204
Distribution substation	Derwent	PDDS	1.0487
LV distribution network	Derwent	PDLV	1.0609

Table 33 TasNetworks' Southern region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Southern	PSST	1.0000
Zone substation	Southern	PSZN	1.0002
HV distribution network	Southern	PSHV	1.0169
Distribution substation	Southern	PSDS	1.0401
LV distribution network	Southern	PSLV	1.0557

Table 34 TasNetworks' West Coast region DLFs

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	West Coast	PWST	1.0017
Zone substation	West Coast	PWZN	1.0057
HV distribution network	West Coast	PWHV	1.0150
Distribution substation	West Coast	PWDS	1.0336
LV distribution network	West Coast	PWLV	1.0510

Table 35 TasNetworks' site-specific DLFs

NMI	Region	DLF code	DLF
8000000656	North West	PSPU	0.9914
8000003578	West Coast	PBSM	1.0132
8000003585	North West	PACH	1.0000
8000003868	West Coast	PHGM	1.0000
8000295294	East Coast	PEMW	0.9550
8000004181	East Coast	PEDE	1.0000
8000296059	East Coast	PEHE	1.0000
8000003493	Derwent	PDTC	0.9753

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	Garry Foo, Senior Distribution Pricing Analyst	02 9269 2283
Endeavour Energy	Fiona Place, Compliance Analyst	02 9853 6302
Energex	Karen Stafford, General Manager Legal, Regulation and Pricing	07 3851 6793
Ergon Energy Corporation Limited	Karen Stafford, General Manager Legal, Regulation and Pricing	07 3851 6793
Essential Energy	Catherine Waddell, Network Pricing Manager	02 6338 3553
Evoenergy	Dennis Stanley, Branch Manager Asset Strategy	02 6270 7667
Jemena	Matthew Serpell, Regulatory Manager	03 9173 8231
Powercor Australia Ltd and CitiPower Pty Ltd	Adam Ryan, Network Optimisation Manager	03 9683 4380
SA Power Networks	James Bennett, Manager Regulation	08 8404 5261
AusNet Services	Kate Jdanova, Pricing Manager	03 9695 6630
TasNetworks	Chantal Hopwood, Leader Regulation	03 6271 6511
United Energy Distribution	Rodney Bray, Network Planning Manager	03 8846 9745