



# DISTRIBUTION LOSS FACTORS FOR THE 2018/19 FINANCIAL YEAR

PREPARED BY: Markets  
PREPARED FOR: National Electricity Market  
DOCUMENT NO: N/A  
VERSION NO: 11.0  
EFFECTIVE DATE: 1 July 2018

# Version control

Version	Date	Details
1.0	29/03/2018	Posted on the AEMO website in accordance with clause 3.6.3(i) of the National Electricity Rules
2.0	07/05/2018	New DLF for Narromine and South Keswick Solar Farms codes BS61 and BS62 respectively
3.0	28/05/2018	New DLF for Oakey Solar Farm code GS93 Changes to DLF values for 3051597233 , 30530055980, 3053000490, 3052368025
4.0	15/06/2018	New DLF for Bannerton Solar Park KBP, Karadoc Solar Farm KKS, Wemen Solar Farm KWS, Collinsville Solar Farm GS95, Longreach Solar Farm GS91, Tableland Mill GS97 Removal of checksum for 3053005598, 4001297032, 4001297033, 4001298855, 4001298870
5.0	25/06/2018	Change in DLF code for NEEE004639 New NMI for Bannerton Solar Park KBP
6.0	29/08/2018	New DLF for Kennedy Energy Park GA02
7.0	19/09/2018	New DLF for Emerald Solar Park GA01, Baking Board Solar Farm Chinchilla GS98
8.0	30/11/2018	New NMIs for Oakey Solar Farm GS93 New DLF for Susan River Solar Farm GA04, Childers Solar Farm GA05 New DLFs for Brisbane Airport Embedded Network XBAB, XBAL New DLF for Gannawarra Generation Network XGW1
9.0	21/12/2018	New DLF for Yendon Wind Farm KYD
10.0	05/02/2019	New DLF for Numurkah Solar Farm KNS
11.0	21/06/2019	Replacement NMIs for CRNP sites (DLF codes J620, J777) New DLF for Wirsol Clermont Solar Farm GS99

# Contents

Rules requirements	5
Distribution loss factors for 2018/19	5
Appendix A: Queensland distribution loss factors for 2018/19	6
Appendix B: Victoria distribution loss factors for 2018/19	13
Appendix C: New South Wales distribution loss factors for 2018/19	17
Appendix D: Australian Capital Territory distribution loss factors for 2018/19	24
Appendix E: South Australia distribution loss factors for 2018/19	25
Appendix F: Tasmania distribution loss factors for 2018/19	27
Appendix G: Distribution loss factor – Contacts	30

## Tables

Table 1	Energex's average DLFs	6
Table 2	Energex's DLFs for individually calculated customers/generators	6
Table 3	Ergon Energy's tariff class DLFs	8
Table 4	Ergon Energy's site-specific DLFs	9
Table 5	Ergon Energy's embedded generation DLFs	10
Table 6	Oaky Creek Coal Network's embedded generation DLFs	11
Table 7	Capcoal Network's embedded generation DLF	11
Table 8	Moranbah North Coal Mine Network's embedded generation DLF	12
Table 9	Brisbane Airport embedded network DLF	12
Table 10	Approved network average DLFs	13
Table 11	Approved site-specific DLFs for large load customers	14
Table 12	Approved DLFs for large embedded generators	15
Table 13	Gannawarra generation network DLF	16
Table 14	Endeavour Energy's DLFs for tariff classes	17
Table 15	Endeavour Energy's DLFs for embedded generators	17
Table 16	Endeavour Energy's DLFs for CRNP Customers	17
Table 17	Essential Energy's site-specific DLFs	18
Table 18	Essential Energy's general DLFs	20
Table 19	Ausgrid's DLFs for tariff classes	20
Table 20	Ausgrid's DLFs for CRNP customers	21
Table 21	Ausgrid's DLF's for embedded generators	23
Table 22	One Steel's embedded network DLFs	23
Table 23	ActewAGL's distribution DLFs	24
Table 24	ActewAGL's site-specific DLFs	24
Table 25	SA Power Network's distribution connection point class DLFs	25
Table 26	SA Power Network's site-specific DLFs	25
Table 27	SA Power Network's embedded generator DLFs	26
Table 28	TasNetworks' Hobart region DLFs	27
Table 29	TasNetworks' Tamar region (incorporating Launceston) DLFs	27
Table 30	TasNetworks' East Coast region DLFs	27
Table 31	TasNetworks' North West region DLFs	28
Table 32	TasNetworks' Derwent region DLFs	28
Table 33	TasNetworks' Southern region DLFs	28
Table 34	TasNetworks' West Coast region DLFs	28
Table 35	TasNetworks' site-specific DLFs	29

# 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 2018/19

The Queensland DLFs for the 2018/19 financial year are tabulated in Appendix A.

The Victorian DLFs for the 2018/19 financial year are tabulated in Appendix B.

The NSW DLFs for the 2018/19 financial year are tabulated in Appendix C.

The ACT DLFs for the 2018/19 financial year are tabulated in Appendix D.

The South Australian DLFs for the 2018/19 financial year are tabulated in Appendix E.

The Tasmanian DLFs for the 2018/19 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 2018/19

**Table 1 Energex's average DLFs**

Network level	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
110 kV connected	FSSS	1.0039	1.0037
33 kV connected	F3CL	1.0095	1.0090
11 kV bus connected	F1ZH	1.0139	1.0131
11 kV line connected	F1CH	1.0208	1.0198
LV bus connected	F1CL	1.0405	1.0387
LV line connected	FLCL	1.0560	1.0534

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

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
3120081063	FALK	1.01026	1.01448
QB13708848	FBEP	1.01138	1.00881
QB13786415	FBOC	1.00986	1.00903
QB03188493	FBRR	1.00835	1.00646
QB07156049	FBAC	1.01510	1.01226
3116941403	FAPB	1.01473	1.01340
3120007259	FLMD	1.01430	1.01244
QB03674681	FCAL	1.00795	1.01247
QB03187888	FQCL	1.02746	1.03776
3120032960	FCLT	1.00658	1.00450
3120033076	FCST	1.00438	1.00470
QB00011835	FCRL	1.00824	1.03086
QB03017958	FQUE	1.00894	1.00882
3120167431	FEAN	1.00447	1.00678
3120167432	FEAS	1.00441	1.00635
QB06480217	FHDL	1.00887	1.00717
3117524016	FGBI	1.00731	1.00622
3120048897	FGHP	1.00722	1.00792
QB08899177	FHYS	1.03363	1.04984

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
QB03675327	FICT	1.00687	1.00932
QB10153381	FIST	--	1.00598
QB00702307	FSFT	1.03090	1.01374
QB06965202	FJPC	--	1.00549
3120085617	FLWT	1.00068	1.00591
3120085619	FLWH	1.00611	1.00105
3117238161	FLGP	1.01519	1.01431
3120081891	FNBW	1.12671	1.13083
QB03674177	FQG	1.02250	1.01333
QB05747155	FPCF	--	1.01424
QB09709916	FQBH	1.00024	1.00031
QB09750568	FQB	1.00007	1.00263
QB05850851	FQBW	1.00233	1.00235
QB07417373	FQCB	1.03951	1.04304
QB03187390	FQC	1.00007	1.00003
QB07480580	FQL	1.00077	1.00070
3120253094	FQP	1.00995	1.00724
QB12757888	FQR	1.00037	1.00039
3120090363	FQRS	1.00024	1.00022
3120253056	FQRW	1.00774	1.00651
QB08485399	FQT	1.00246	1.00806
3117476607	FQW	1.00136	1.00076
QB03675025	FPAH	1.00942	1.01613
3120134803	FQCH	1.00842	1.00611
QB03674151	FRBH	1.00992	1.00764
3120001083	FRAF	1.01815	1.01749
QB00703630	FBCC	1.01230	1.01274
QB08051828	FHDU	--	1.01355
QB08045917	FMRP	--	1.05236
3120309278	FSHG	--	1.02707
QB02572559	FNPD	1.03044	1.02176
QMRGW00156	FSWP	1.01012	1.01429

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
QB00547778	FSBB	1.03764	1.03060
3120152640	FSUH	1.01135	1.01174
QB07047011	FSTC	1.01050	1.01272
QB08144664	FACI	1.05903	1.08795
3117267111	FTD	1.00940	1.00860
3120301348	FUQC	--	1.02713
3116852575	FUQ1	1.01334	1.00592
QB12021814	FVP	1.00522	1.00233
QB09455507	FSC	1.00727	1.00955
QB03187616	FWSC	--	1.01049
QB03188523	FWGC	1.00560	1.00576
3116578384	FEIB	1.01275	1.01568
QB14097800	FRPT	0.99796	1.00506
3117546923	FTTB	1.03624	1.03923
3120301290	FVSF	0.98048	1.07431
3114538695	FWHG	1.05145	1.07612

**Table 3 Ergon Energy's tariff class DLFs**

NETWORK LEVEL	DLF applied in 2017/18			DLF to apply in 2018/19		
	East	West	MI	East	West	MI
<b>Sub-Trans. Bus</b>	1.006	1.029	1.001	1.007	1.026	1.000
<b>Sub-Trans. Line</b>	1.011	1.057	1.005	1.012	1.064	1.005
<b>22/11 kV Bus</b>	1.015	1.065	1.007	1.016	1.070	1.007
<b>22/11 kV Line</b>	1.030	1.097	1.035	1.036	1.103	1.035
<b>LV Bus</b>	1.073	1.149	1.061	1.075	1.149	1.066
<b>LV Line</b>	1.096	1.192	1.070	1.087	1.171	1.073



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 2017/18	DLF to apply in 2018/19
QAAALV0001	GBSB	1.000	1.000
QAAAMR0000	GBSB	1.000	1.000
QAAABW0000	GBSB	1.000	1.000
QAAABW0002	GS02	1.006	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	1.003	1.006
QCCC000004	GS19	1.037	1.030
QCCC000002	GS18	1.004	1.004
QAAABW0001	GS51	1.002	1.004
QDDD000003	GS21	1.002	1.002
QAAALV0000	GBSB	1.000	1.000
QGGG000394	GS40	1.092	1.095
QWAGW00066	GS65	1.010	1.010
QAAABX0014	GS69	1.006	1.006
QEMS000001	GS64	1.009	1.009
QAAALV0002	GBSB	1.000	1.000
QCCC000003	GBSB	1.000	1.000
QCCC000012	GS85	1.060	1.065

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
QAAALV0004	GBSB	1.000	1.000
QAAABX0012	GS70	1.001	1.001
3051111985	GS06	1.006	1.006
QAAARG0000	GS14	1.004	1.005
QAAAMR0001	GS13	1.004	1.004
QAAABW0041	GS62	1.023	1.019
QAAALX0000	GS12	1.020	1.020
3051844184	GS84	1.000	1.000
3051467399	GS86	1.005	1.008
QCCC000020	GS82	1.008	1.008
QDDD000028	GS87	1.008	1.008
3051745071	GS22	1.001	1.001
3051492237	GS89	1.000	1.000
3051988348	GS90	1.002	1.002
QDDD003342	GS88	1.007	1.012
QCCC000018	GS83	1.006	1.006
QDDD000005	GBSB	1.000	1.000
3051597233	GESL	--	1.012
3052303675	GBSB	--	1.000
3052261476	GBSB	1.000	1.000

**Table 5 Ergon Energy's embedded generation DLFs**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
QEEE000547	GS26	0.994	0.992
QEEE000026	GS55	0.979	0.978
QCQPW00076	GS49	0.959	0.95
QFFF000010	GS29	0.979	0.976
QFFF00000Z	GS30	0.979	0.976
QCCC001041	GS67	0.968	0.976
QDDD003206	GS71	0.999	1
3052323901	GBSB	1	1

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
QCCC001036	GS56	0.99	0.988
QMKYW00147	GBSB	1	1
QGGG000418	GS74	1.001	1
3051393689	GS76	0.946	0.948
QEEE000050	GS79	0.977	0.977
3051745577	GS80	0.994	0.994
3051532166	GS81	0.987	0.987
3053000490	GS92	--	0.999
3052368025	GS96	--	0.897
3053005598	GS93	--	0.988
7105006000			
7105006001			
3052060420	GS95	--	1.000
3053012527	GS97	--	0.991
3053006353	GS91	--	0.898
3053007186	GS98	--	0.954
3053011565	GA02	--	0.820
3053010873	GA01	--	0.946
3053012323	GA04	--	0.993
3053012322	GA05	--	0.991
3053008146	GS99	--	0.964

**Table 6 Oaky Creek Coal Network's embedded generation DLFs**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
7102000028	XOCN	0.9742	0.9791
7102000029	XOC2	0.9686	0.9763

**Table 7 Capcoal Network's embedded generation DLF**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
7102000033	XCCN	0.9992	0.9969

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

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
7102000038	XMCN	0.9953	0.9959
7102000039	XMGR	0.9937	0.9931
7102000040	XMG2	0.9931	0.9931

**Table 9 Brisbane Airport embedded network DLF**

NETWORK LEVEL	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
LV Bus	XBAB	--	1.01370
LV Line	XBAL	--	1.05677

## Appendix B: Victoria distribution loss factors for 2018/19

**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	1.0049	1.0107	1.0250	1.0454	1.0526
	Long Sub-transmission	1.0177	1.0235	1.0378	1.0581	1.0654
CitiPower	Short sub-transmission	1.0040	1.0122	1.0154	1.0415	1.0476
Powercor	Short sub-transmission	1.0043	1.0101	1.0358	1.0623	1.0711
	Long sub-transmission	1.0343	1.0401	1.0658	1.0923	1.1011
AusNet Services	Short sub-transmission	1.0046	1.0124	1.0305	1.0523	1.0597
	Long sub-transmission	1.0205	1.0283	1.0463	1.0681	1.0755
United Energy	Short sub-transmission	1.0040	1.0093	1.0146	1.0398	1.0533
	Long sub-transmission	1.0184	1.0238	1.0290	1.0542	1.0678

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 2018/19
<b>Jemena</b>	VDDD000495	CVPC	1.0092
	6001280255	CAPA	1.0049
	VDDD000244	CFMC	DLF C Short (CHCS)
	VDDD000134	CAGP	1.0133
	6001001784	CAHH	1.0164
<b>CitiPower</b>	VAAA000673	ESS4	1.0169
<b>Powercor</b>	VCCCAF0002	KAF1	1.0008
	VCCCAF0001	KAF	1.0068
	VCCDA0031	KDA2	DLF A Short (KAS)
	VCCCGJ0001	KGJ	1.0020
	VCCCRD0007	KRD	1.0075
	VCCDA0025	KDA1	1.0087
	VCCCAD0001	KAD	1.0127
	VCCCSE0004	KSE	1.0495
	VCCBC0025	KBC	1.0318
	VCCCTE0002	KTE	1.0440
	VCCCSB0012	KSB	1.0556
	6203803617	KBN	1.0082
	VCCCLD0024	KLD	1.0086
	<b>AusNet Services</b>	VBBB000073	LL02
VBBB000161		LL05	1.0038
VBBB000058		LL01	1.0271
<b>United Energy</b>	VEEE0PD8AD	MC05	1.0094
	VEEE0TF39Q	MC06	1.0109
	VEEE0BG4Q3	MC02	1.0147
	VEEE0NDNEX	MC04	1.0236
	6407799056	MC08	1.0165
	VEEE08KH3V	MC01	1.0081
	VEEE0C8AW1	MC03	1.0052
	VEEE0ATYTH	MC07	1.0169

**Table 12 Approved DLFs for large embedded generators**

Distributor	NMI	DLF codes	DLF to apply in 2018/19
<b>Jemena</b>	6001264751	CSOG	0.9884
<b>Powercor</b>	6203661632	KCH	0.9641
	6203008782	KCF	1.0335
	6203690629	KYW	1.0335
	6203811032	KOH	0.8966
	6203829699	KML	0.9087
	6203879058	KCB	1.0306
	6203921151	KKW	0.9185
	6203921132	KYS	0.9947
	6203934859	KMG	0.9586
	6203934861	KMG	0.9586
	6203935735	KGS	0.9860
	6203937431	KBP	0.9774
	6203949352		
	6203937741	KKS	0.9886
	6203946314	KWS	0.9986
	6203964878	KYD	0.9845
	6203962945	KNS	0.9927
	6203962946		
	<b>AusNet Services</b>	6305656070	LG02
6305010110		LG03	1.0422
6305651897		LG03	1.0422
6305721689		LG07	1.0446
VBBB002342		LG04	1.0233
VMBTWZCLPS		LG05	0.9952
VTTSWZRUBX		LG06	1.0218
6305908426		LG08	1.0071
6305940506		LG09	1.0337
6305941257		LG09	1.0337

Distributor	NMI	DLF codes	DLF to apply in 2018/19
United Energy	6407649172	MG01	1.0088

**Table 13 Gannawarra generation network DLF**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
7102000055	XGW1	--	0.986
7102000056			
7102000057			
7102000058			
7102000059			



## Appendix C: New South Wales distribution loss factors for 2018/19

**Table 14 Endeavour Energy's DLFs for tariff classes**

Tariff class	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
<b>132 kV Network</b>	HNVL	1.0034	1.0026
<b>Transmission substation</b>	HSTS	1.0067	1.0062
<b>Subtransmission network</b>	HSTL	1.0099	1.0092
<b>Zone substation</b>	HHVT	1.0116	1.0101
<b>High voltage distribution network</b>	HHVL	1.0173	1.0154
<b>Distribution substation</b>	HLVT	1.0452	1.0437
<b>Low voltage network</b>	HLVL	1.0649	1.0648

**Table 15 Endeavour Energy's DLFs for embedded generators**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
NEEE000748	HTX2	0.9996	0.9981
NEEE000749	HTX3	1.0104	1.0179
NEEE000750	HTX4	1.0138	1.0170
4310951391	HNC1	0.9995	0.9994

**Table 16 Endeavour Energy's DLFs for CRNP Customers**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
NEEE000003	HTX6	1.0112	1.0106
NEEE000005	HHY1	1.0166	1.0115
NEEE000006	HTY5	1.0272	1.0356
NEEE000014	HTY7	HSTL	1.0084
NEEE000046	HTV2	1.0036	1.0029
NEEE000049	HHV1	1.0126	1.0106
NEEE000066	HTY4	1.0332	1.0264
NEEE000506	HHY4	1.0102	1.0113
NEEE000707	HHY5	1.0309	1.0259
NEEE000758 NEEE000759	HIC1	1.0189	1.0126

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
NEEE000760 NEEE000762 NEEE000764 NEEE000766 NEEE000768	HTV4	1.0065	1.0075
4311061116 4311061119	HTY3	1.0070	1.0064
NEEE001591	HTX5	1.0166	1.0127
4311028276 4311028297 4311246109 4311246110	HHY3	1.0205	1.0129
NEEE001656	HTV1	1.0060	1.0035
NEEE001892	HTX1	1.0154	1.0145
NEEEW00001 NEEEW00002	HTF1	1.0011	1.0008
NEEEW04150 NEEEW04151 NEEEW04152 NEEEW04153 NEEEW04154	HTF2	1.0095	1.0068
NEEE005219	HTX8	1.0089	1.0076
4311206443 4311173727	HTX9	1.0066	1.0037
NEEE004639	HHY7	HHVT	1.0107
4310857952	HTYA	HSTL	1.0174
4310866743	HTXA	1.0103	1.0086
4311159207	HTYB	1.0056	1.0058
4311168207	HTYC	1.0067	1.0110
4310942441	HTXB	1.099	1.0063

**Table 17 Essential Energy's site-specific DLFs**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
4001193201	BS02	0.9468	0.9671
4001185251	BS03	1.0021	1.0174
4001161869	BS32	1.0983	1.1080
NAAA00AC11	BS33	1.0891	1.0851

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
4001224331	BS35	1.0163	1.0133
NTTTW0RU20	BS37	1.0000	1.0000
NAAANRAB50	BS38	1.0164	1.0164
NAAA00AC21	BS39	1.0186	1.0210
NAAA00AB64	BS40	1.0926	1.0827
NAAANRAA01	BS41	1.1229	1.1264
4001151659	BS43	1.0052	1.0193
4001231299	BS43	1.0052	1.0193
NFFFNRKU39	BS44	1.0014	0.9964
4001175717	BS45	1.0502	1.0450
4508034707	BS46	1.0458	1.0492
4001210762	BS48	0.9876	0.9853
4001231908	BS50	0.9758	0.9764
NAAANRAA02	BS51	1.0107	1.0084
4001223403	BS52	1.0529	1.0521
4001242173	BS53	1.0065	1.0065
4001251721	BS54	0.9839	0.9832
4001246761	BS55	0.9908	0.9917
4001227465	BS56	1.0163	1.0133
4001258249	BS57	0.9855	0.9757
4001241798	BS58	0.9934	0.9835
4001202550	BS60	1.0086	1.0066
4001297032	BS61	0.9832	0.9832
4001297033	BS62	0.9984	0.9984
4001298855	BS63	--	0.9929
4001298870	BS63	--	0.9929
NTTTW0W110	UNIT	1.0000	1.0000

**Table 18 Essential Energy's general DLFs**

Class	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
<b>Low voltage</b>	BL0A, DLDL, DLD2, DLD6, DLGB, DLGD	1.0795	1.0745
<b>LV &amp; metered at CE substation</b>	BL5A	1.0564	1.0556
<b>High voltage line</b>	BH0A	1.0350	1.0328
<b>High voltage substation</b>	BH5A	1.0181	1.0195
<b>Sub-transmission</b>	BS0A	1.0101	1.0108

**Table 19 Ausgrid's DLFs for tariff classes**

Tariff code	Tariff class	Location	DLF applied in 2017/18	DLF to apply in 2018/19	DLF code
EA010	Residential Non ToU (Closed)	LV system	1.0548	1.0544	JLDL
EA011	Transitional Residential ToU	LV system	--	1.0544	JLDL
EA025	Residential ToU	LV system	1.0484	1.048	JL40
EA030	Controlled Load 1	LV system	1.0548	1.0544	JL1L
EA040	Controlled Load 2	LV system	1.0548	1.0544	JL2L
EA050	Small Business Non ToU (Closed)	LV system	1.0479	1.0477	JLSL
EA051	Transitional Small Business ToU	LV system	--	1.0477	JLSL
EA225	Small Business ToU	LV system	1.0479	1.0477	JLSL
EA301	LV 40-160 MWh (Transition - Closed)	LV system	1.0479	1.0477	JLSL
EA302	LV 40-160 MWh (System)	LV system	1.0479	1.0477	JLSL
EA305	LV 160-750 MWh (System)	LV system	1.0479	1.0477	JLSL
EA310	LV >750 MWh (System)	LV system	1.0479	1.0477	JLSL
EA316	Transitional 40-160 MWh (Closed)	LV system	--	1.0477	JLSL
EA317	Transitional 160-750 MWh (Closed)	LV system	--	1.0477	JLSL
EA325	LV Connection (Standby Tariff)	LV system	1.0479	1.0477	JLSL

Tariff code	Tariff class	Location	DLF applied in 2017/18	DLF to apply in 2018/19	DLF code
EA360	HV Connection (Standby Tariff)	HV system	1.0155	1.0197	JHSH
EA370	HV Connection (System)	HV system	1.0155	1.0197	JHSH
EA380	HV Connection (Substation)	HV substation	1.0123	1.0164	JHBH
EA390	ST Connection	ST System	1.0059	1.0095	JSSS
EA391	ST Connection (Substation)	ST substation	1.0059	1.0095	JSBS
EA401	Public Lighting	LV system	1.0615	1.0609	JLSP
EA402	Constant Unmetered	LV system	1.0517	1.0505	JLSU
EA403	Energy Light	LV system	1.0615	1.0609	JLSP
EA501	Transmission Connection	Transmission	1.0000	1.0000	JTRN

**Table 20 Ausgrid's DLFs for CRNP customers**

NMI	Location	DLF applied in 2017/18	DLF to apply in 2018/19	DLF code
4103736926	33 kV system	1.0020	1.0020	J550
4103736927	33 kV system	1.0020	1.0020	J550
NCCCNREA06	33/11 kV substations	1.0134	1.0108	J660
4103748279	132 kV system	1.0000	1.0000	J885
4103507254	33 kV system	1.0026	1.0021	JGLB
4103507266	33 kV system	1.0026	1.0021	JGLB
4103841748	33 kV system	1.0026	1.0021	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	1.0030	1.0032	J881
4102016227	33 kV transmission	1.0008	1.0010	JTOL
4102016252	33 kV transmission	1.0008	1.0010	JTOL
4103770084	132 kV transmission	1.0012	1.0009	J887
4103770085	132 kV transmission	1.0012	1.0009	J886
NCCCZ01381	33 kV transmission	1.0011	1.0011	J800

NMI	Location	DLF applied in 2017/18	DLF to apply in 2018/19	DLF code
4103769153	33 kV system	1.0062	1.0067	J700
4103769154	33 kV system	1.0062	1.0067	J700
NCCCNRZ1BK	132/33 kV substations	1.0045	1.0041	J635
4103686298	66 kV system	1.0059	1.0095	JSSS
NCCCX00745	33 kV transmission	1.0008	1.0011	J640
NCCCX00746	33 kV transmission	1.0008	1.0011	J640
NCCCX00747	33 kV transmission	1.0008	1.0011	J640
4103507347	132/33 kV substations	1.0129	1.0040	J601
NCCCNRZ1BM	132 kV system	1.0052	1.0040	J580
NCCCX00332	132/66 kV substations	1.0001	1.0001	J590
NCCCNRZZB0	132/33 kV substations	1.0108	1.0117	J610
NCCCX00750	33 kV transmission	1.0016	1.0020	J620
NCCCX00751 4104004610	33 kV transmission	1.0016	1.0020	J620
NCCCX00752 4104004602	33 kV transmission	1.0016	1.0020	J620
NCCCX00753	33 kV transmission	1.0016	1.0020	J620
NCCC007211	33 kV system	1.0058	1.0062	J605
NCCCNRZ1BQ	33 kV transmission	1.0029	1.0004	J655
NCCCX00283	132/33 kV substations	1.0045	1.0047	J630
NCCCX00284	132/33 kV substations	1.0045	1.0047	J630
NCCCX00748	132/33 kV substations	1.0076	1.0036	J615
NCCCX00749	132/33 kV substations	1.0076	1.0036	J615
NCCCNRZ1BT	132/33 kV substations	1.0026	1.0026	J645
NCCCX00293	132/33 kV substations	1.0095	1.0092	J600
NCCCX00294	132/33 kV substations	1.0095	1.0092	J600
NCCC002902	66 kV system	1.0052	1.0050	JK23
NCCC002221	66 kV system	1.0076	1.0080	J500
NCCZ01275	132/33 kV substations	1.0067	1.0076	J560
NCCCNREEK2	33 kV system	1.0059	1.0065	J541
4102030738	33 kV system	1.0089	1.0082	J543
4103628537	33 kV system	1.0089	1.0082	J543

NMI	Location	DLF applied in 2017/18	DLF to apply in 2018/19	DLF code
NCCCNRCS90	HV system	1.0123	1.0120	J670
NCCCNRZ1XJ	66 kV system	1.0195	1.0276	J680
NCCCNREA14	132/11 kV substations	1.0123	1.0179	J770
4103798233	66 kV system	1.0115	1.0117	J771
NCCCNREB57	33/11 kV substations	1.0202	1.0197	J772
NCCCNREB24	132/11 kV substations	1.0280	1.0336	J773
4103598315	132/66 kV substations	1.0084	1.0084	J774
NCCCNREE73	33 kV system	1.0176	1.0180	J775
NCCCNREB49 4103974109	132/66 kV substations	1.0050	1.0050	J777
4103632682	33 kV system	1.0154	1.0143	J778
4103529698	66 kV system	1.0128	1.0101	J779
NCCCNRENB7	132/66 kV substations	1.0146	1.0156	J780
4103768912	132/33 kV substations	1.0030	1.0030	J781
4103768913	132/33 kV substations	1.0030	1.0030	J782
4103831536	132/11 kV substations	1.0030	1.0030	J783

**Table 21 Ausgrid's DLF's for embedded generators**

NMI	Location	DLF applied in 2017/18	DLF to apply in 2018/19	DLF code
NCCC007498	33 kV system	1.0052	1.0096	JGEN
NCCCNRGB10	HV system	1.0150	1.0195	JK24
NCCCNRME11	33 kV system	1.0052	1.0096	JGEN
NCCCNRME10	33 kV system	1.0052	1.0096	JGEN

**Table 22 One Steel's embedded network DLFs**

NMI	Location	DLF applied in 2017/18	DLF to apply in 2018/19	DLF Code
7102000008, 7102000009, 7102000010	11 kV	1.0908	1.0520	XON2

## Appendix D: Australian Capital Territory distribution loss factors for 2018/19

**Table 23 ActewAGL's distribution DLFs**

Connection	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
High voltage	AH00	1.0154	1.0153
Low voltage	AL00	1.0482	1.0467

**Table 24 ActewAGL's site-specific DLFs**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
NGGG000294	AS01	1.0057	1.0130
NGGG000269	AS02	1.0062	1.0137
7001197618	AS04	0.9996	0.9997
7001317224	AS06	0.9984	0.9984
7001319704	AS07	0.9987	0.9983



## Appendix E: South Australia distribution loss factors for 2018/19

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

Class	Tariff	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
<b>Low voltage small customers</b>	Unmetered	NLV2	1.1050	1.1100
	Residential	NLV2	1.1050	1.1100
	Controlled Load (HW)	NLV2	1.1050	1.1100
	Small Business Single Rate	NLV2	1.1050	1.1100
	Small Business Two Rate	NLV2	1.1050	1.1100
	Small Business Demand	NLV2	1.1050	1.1100
<b>LV large business</b>	Large LV Business Demand	NLV1	1.0840	1.0880
<b>HV business</b>	HV Demand Two Rate	NHV1	1.0500	1.0520
<b>Major business</b>	Substation Non Locational	NZS1	1.0230	1.0240
	Sub-transmission Non Locational	NZS1	1.0230	1.0240

**Table 26 SA Power Network's site-specific DLFs**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
2001000378	NBA1	1.0010	1.0010
2001000608	NAC2	1.0120	1.0120
2002112609	NKC4	1.0100	1.0100
2002133131	NGM2	1.0070	NA
2002213788	NHN1	1.0020	1.0020
2002213796	NHN2	1.0020	1.0020
2002216840	NDS1	1.0130	1.0130
2002276228	NRA1	1.0070	1.0070
2002276230	NRA2	1.0110	1.0110
2002280161	NDS2	1.0130	1.0130
2002257162	NRT1	1.0030	1.0030
2002257164	NRT1	1.0030	1.0030
SAAAAAA018	NPS1	1.0000	1.0000
SAAAAAA021	NPS3	1.0070	1.0070
SAAAAAA022	NGM1	1.0090	NA

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
SAAAAAA024	NAB1	1.0070	1.0070
SAAAAAA035	NGT1	1.0060	1.0060
SAAAAAA084	NOS1	1.0010	1.0010
SAAAAAA438	NIF1	1.0110	1.0110
SAAAAAB557	NOS2	1.0000	1.0000

**Table 27 SA Power Network's embedded generator DLFs**

NMI	DLF code	DLF applied in 2017/18	DLF to apply in 2018/19
2001000639	NCL1	1.0090	1.0090
2001000640	NCL1	1.0090	1.0090
2001000734	NSHW	1.0090	1.0090
2001830001	NTGN	1.0030	1.0030
2001830002	NTGS	0.9980	0.9980
2002108658	NCDW	0.9730	0.9730
2002108660	NAS1	0.9970	0.9970
2002108661	NAS2	0.9970	0.9970
2002220776	NSP1	1.0040	1.0040
2002221495	NSP2	1.0040	1.0040

## Appendix F: Tasmania distribution loss factors for 2018/19

The AER has approved the following distribution loss factors for Tasmania for the 2018/19 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	1.0042
Zone substation	Hobart	PHZN	1.0064
HV distribution network	Hobart	PHHV	1.0123
Distribution substation	Hobart	PHDS	1.0266
LV distribution network	Hobart	PHLV	1.0389

**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	1.0072
Distribution substation	Tamar	PTDS	1.0245
LV distribution network	Tamar	PTLV	1.0451

**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	1.0222
Distribution substation	East Coast	PEDS	1.0544
LV distribution network	East Coast	PELV	1.0840

**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	1.0086
Distribution substation	North West	PNDS	1.0304
LV distribution network	North West	PNLV	1.0568

**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	1.0177
Distribution substation	Derwent	PDDS	1.0463
LV distribution network	Derwent	PDLV	1.0639

**Table 33 TasNetworks' Southern region DLFs**

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	Southern	PSST	1.0000
Zone substation	Southern	PSZN	1.0003
HV distribution network	Southern	PSHV	1.0183
Distribution substation	Southern	PSDS	1.0449
LV distribution network	Southern	PSLV	1.0547

**Table 34 TasNetworks' West Coast region DLFs**

Distribution network Level	Region	DLF code	Cumulative DLF
Subtransmission network	West Coast	PWST	1.0009
Zone substation	West Coast	PWZN	1.0049
HV distribution network	West Coast	PWHV	1.0144
Distribution substation	West Coast	PWDS	1.0398
LV distribution network	West Coast	PWLV	1.0545

**Table 35 TasNetworks' site-specific DLFs**

NMI	Region	DLF code	DLF
800000656	North West	PSPU	0.9909
8000003578	West Coast	PBSM	1.0118
8000003585	North West	PACH	1.0000
8000003868	West Coast	PHGM	1.0000
8000295294	East Coast	PEMW	0.9205
8000004181	East Coast	PEDE	1.0000
8000296059	East Coast	PEHE	1.0000
8000003493	Derwent	PDTC	0.9763

## 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

ActewAGL Distribution	Janusz Worony, Manager Technical Regulation and Standards	02 6293 5871
Ausgrid	Garry Foo, Senior Distribution Pricing Analyst	02 9269 2283
Endeavour Energy	Fiona Place, Compliance Analyst	02 9853 6302
Energex	Jenny Doyle, General Manager Regulation and Pricing	07 3851 6416
Ergon Energy Corporation Limited	Jenny Doyle, General Manager Regulation and Pricing	07 3851 6416
Essential Energy	Catherine Waddell, Network Pricing Manager	02 6338 3553
Jemena	Matthew Serpell, Manager Asset Regulation and Strategy	03 9173 8231
Powercor Australia Ltd and CitiPower Pty Ltd	Peter Lambis, Subtransmission & Transmission Interface Manager	03 9683 4333
SA Power Networks	James Bennett, Manager Regulation	08 8404 5261
AusNet Services	Kate Jdanova, Pricing Manager	03 9695 6630
TasNetworks	Kirstan Wilding, Leader Regulation	03 6271 6696
United Energy Distribution	Rodney Bray, Network Planning Manager	03 8846 9745