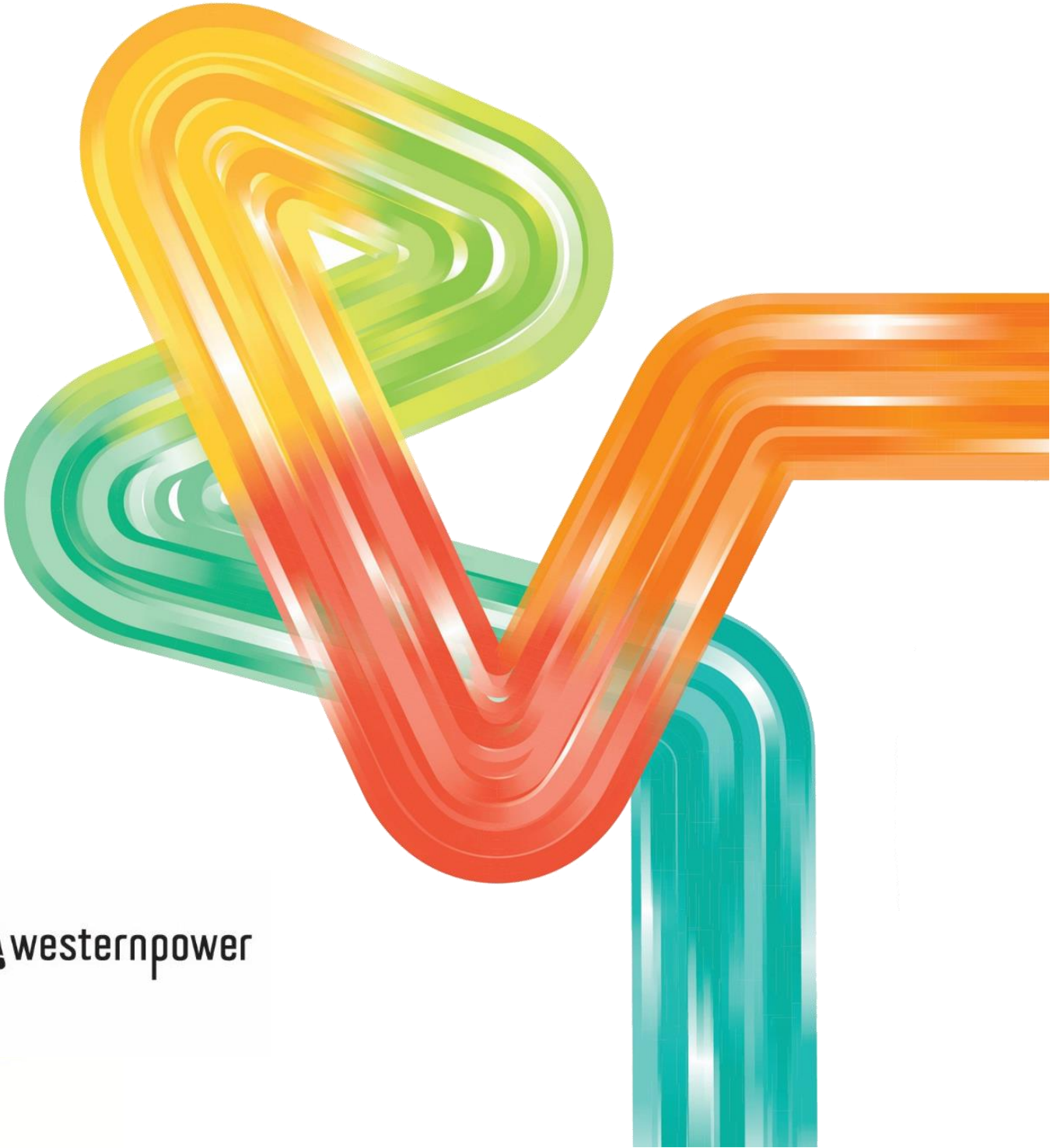


2020/21 Loss Factor Report

Public

29 May 2020



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1. Introduction

This report details the loss factors calculated for the 2020/21 financial year as required by section 2.27 of the Market Rules.

To comply with the obligations under section 2.27 of the Market Rules Western Power has:

- Recalculated all transmission loss factors.
- Recalculated all average distribution loss factors.
- Recalculated all individual distribution loss factors for customers with a CMD greater than 7,000 kVA.
- Recalculated all individual distribution loss factors for customers with a CMD between 1,000 and 7,000 kVA located greater than 10 km from the electrically closest substation.
- Recalculated the individual distribution loss factors for customers with a CMD between 1,000 and 7,000 kVA located less than 10 km from the electrically closest substation, where an individual distribution loss factor has been elected by the associated retailer.
- Recalculated all individual distribution loss factors for distribution connected generation customers.

2. Basis for Calculation

Western Power calculates loss factors in accordance with the Market Procedure for Determining Loss Factors (the Market Procedure). The following sections provide further detail on the methodology used by Western Power in calculating loss factors.

2.1 Transmission loss factors

Western Power has calculated the transmission loss factors in accordance with section 4.1 of the Market Procedure using the software package T-price.

2.2 Average distribution loss factors

The methodology calculates the average distribution loss factors by:

- Determining losses within the zone substation transformers.
- Determining HV feeder losses.
- Determining distribution transformer losses.
- Determining LV feeder losses (allowing separately for residential and commercial losses).
- Western Power allocates the average distribution losses based on the usage of the various components of the network. An appropriate basis for this allocation is the reference services (offered in Western Power's access arrangement) and in accordance with the Market Procedure Western Power has determined an average loss factor for relevant reference services.

2.3 Individual distribution loss factors

Western Power calculates the individual distribution loss factors in accordance with section 4.2 of the Market Procedure.

The methodology used to calculate the individual distribution loss factors uses the formulae and methodology detailed in Schedule 4 of the Electricity Distribution Regulations 1997.¹ Schedule 4 of the Electricity Distribution Regulations 1997 is reproduced below:

1. To calculate the loss factor for a distribution connection which is an exit point a corporation must follow the following steps:
 - (a) the corporation must determine the line losses assuming the distribution connection was not there and assuming feeder maximum load;
 - (b) the corporation must determine the line losses assuming only the distribution connection was there and assuming feeder maximum load;
 - (c) the corporation must determine the total line losses assuming all the distribution connections are there (including the distribution connection for which the loss factor is being determined) and assuming feeder maximum load;

¹ For sites supplied from multiple feeders the distribution loss factor has been determined as if the load is evenly split across the feeders. The resultant distribution loss factor is the average of the calculated distribution loss factors.

- (d) the corporation must allocate a share of the total line losses calculated under step (c) to the distribution connection for which the loss factor is being determined based on the ratio of the result of step (b) and the sum of the results of steps (a) and (b);
- (e) the corporation must calculate the loss factor for the distribution connection by applying the following formula:

$$LF_{Exit} = 1 + \frac{A}{B}$$

where —

- A (in kW) is the share of the total line losses allocated to the distribution connection under step (d);
- B (in kW) is the contract maximum demand for the distribution connection.

2. To calculate the loss factor for a distribution connection which is an entry point a corporation must follow the following steps:

- (a) the corporation must determine the line losses assuming the distribution connection was not there and assuming feeder maximum load;
- (b) the corporation must determine the total line losses assuming all the distribution connections are there (including the distribution connection for which the loss factor is being determined) and assuming feeder maximum load;
- (c) the corporation must calculate the loss decrease or increase for the distribution connection for which the loss factor is being determined by subtracting the result of step (b) from the result of step (a);
- (d) the corporation must calculate the loss factor for the distribution connection by applying the following formula:

$$LF_{Entry} = 1 + \frac{A}{B}$$

where —

- A (in kW) is the loss increase or decrease calculated for the distribution connection under step (c);
- B (in kW) is the declared sent-out capacity for the distribution connection.

3. Applicable Reference Services

The Market Procedure requires Western Power to define a subset of reference services as ‘Applicable Reference Services’. The following table details the reference services that will be allocated to ‘applicable reference services’ from 1 July 2020.

3.1 Applicable Reference Services

AA4 Reference services that are ‘Applicable Reference Services’
A1 – Anytime Energy (Residential) Exit Service
A2 – Anytime Energy (Business) Exit Service
A3 – Time of Use Energy (Residential) Exit Service
A4 – Time of Use Energy (Business) Exit Service
A5 – High Voltage Metered Demand Exit Service
C5 – High Voltage Metered Demand Bi-directional Service
A6 – Low Voltage Metered Demand Exit Service
C6 – Low Voltage Metered Demand Bi-directional Service
C1 – Anytime Energy (Residential) Bi-directional Service
C2 – Anytime Energy (Business) Bi-directional Service
C3 – Time of Use (Residential) Bi-directional Service
C4 – Time of Use (Business) Bi-directional Service
A12 – 3 Part Time of Use Energy (Residential) Exit Service
C9 – 3 Part Time of Use Energy (Residential) Bi-directional Service
A13 – 3 Part Time of Use Energy (Business) Exit Service
C10 – 3 Part Time of Use Energy (Business) Bi-directional Service
A14 – 3 Part Time of Use Demand (Residential) Exit Service
C11 – 3 Part Time of Use Demand (Residential) Bi-directional Service
A15 – 3 Part Time of Use Demand (Business) Exit Service
C12 – 3 Part Time of Use Demand (Business) Bi-directional Service
A16 – Multi Part Time of Use Energy (Residential) Exit Service
C13 – Multi Part Time of Use Energy (Residential) Bi-directional Service
A17 – Multi Part Time of Use Energy (Business) Exit Service
C14 – Multi Part Time of Use Energy (Business) Bi-directional Service

4. Transmission Loss Factors

Western Power has calculated the following transmission loss factors for the 2020/21 financial year.

Table 4.1 - Transmission Loss Factors

TLF Code	Description	Applied in 2019/20	To apply in 2020/21
TAPA	Alcoa Pinjarra (Alcoa)	0.9771	1.0093
TAPL	Alcoa Pinjarra (Alinta)	0.9767	1.0074
TBLB	Bluewaters	0.9992	1.0000
TBLS	Boulder (SCE)	1.1689	1.1330
TKRA	Karara Three Springs	1.0431	1.0380
TLWA	Landwehr (Alinta)	1.0113	1.0117
TMBA	Mumbida Wind Farm	0.9528	0.9388
TMDP	Merredin Power Station	0.9654	1.0002
TMGS	Greenough River Solar Farm	0.9946	0.9906
TMSK	Mason Road (KPP)	1.0307	1.0279
TOLA	Oakley (Alinta)	1.0144	1.0152
TSAV	Transmission SWIN Average	1.0339	1.0333
TUAV	Transmission Urban Average	1.0409	1.0400
TWKG	West Kalgoorlie GTs	1.0970	1.0724
TWOJ	Worsley (Joint Venture)	0.9980	0.9760
TWOW	Worsley (Worsley)	0.9984	0.9764
WAFM	Australian Fused Materials	1.0319	1.0314
WAKW	Kwinana Alcoa	1.0316	1.0300
WALB	Albany	1.0589	1.0628
WAMT	Amherst	1.0436	1.0428
WAPM	Australian Paper Mills	1.0467	1.0453
WARK	Arkana	1.0420	1.0399
WBCH	Beechboro	1.0434	1.0413
WBCT	Balcatta	1.0444	1.0407
WBDE	Baandee	1.0691	1.0540
WBDP	Binningup Desalination Plant	1.0151	1.0158
WBEC	Beckenham	1.0276	1.0298
WBEL	Belmont	1.0308	1.0338

TLF Code	Description	Applied in 2019/20	To apply in 2020/21
WBGGM	Boddington Gold Mine	1.0092	1.0109
WBWF	Badgingarra Wind Farm	0.9917	0.9752
WBHK	Broken Hill Kwinana	1.0356	1.0338
WBIB	Bibra Lake	1.0403	1.0396
WBKF	Black Flag	1.1867	1.1549
WBLD	Boulder	1.1710	1.1373
WBNP	Beenup	1.0312	1.0316
WBNY	Bounty	1.0921	1.0781
WBOD	Boddington	1.0082	1.0098
WBPM	British Petroleum	1.0393	1.0372
WBSI	Marriott Road Barrack Silicon Smelter	1.0145	1.0145
WBSN	Busselton	1.0524	1.0579
WBTN	Bridgetown	1.0139	1.0143
WBTY	Bentley	1.0346	1.0348
WBUH	Bunbury Harbour	1.0173	1.0091
WBYF	Byford	1.0339	1.0372
WCAP	Capel	1.0388	1.0487
WCAR	Carrabin	1.1207	1.1005
WCBP	Mason Road CSBP	1.0304	1.0290
WCCL	Cockburn Cement Ltd	1.0307	1.0303
WCCT	Cockburn Cement	1.0325	1.0328
WCGW	Collgar Windfarm	1.0063	0.9920
WCKN	Clarkson	1.0493	1.0382
WCKT	Cook Street	1.0433	1.0421
WCLN	Clarence Street	1.0361	1.0395
WCLP	Coolup	1.0591	1.0178
WCOE	Collie	1.0204	1.0160
WCOL	Collier	1.0367	1.0402
WCPN	Chapman	1.0166	1.0158
WCPS	Collie PWS	0.9958	0.9959
WCTE	Cottesloe	1.0450	1.0441
WCUN	Cunderdin	1.0939	1.0883

TLF Code	Description	Applied in 2019/20	To apply in 2020/21
WCVE	Canning Vale	1.0286	1.0312
WDTN	Darlington	1.0427	1.0404
WDUR	Durlacher	1.0106	1.0088
WEDD	Edmund Street	1.0443	1.0426
WEDG	Edgewater	1.0485	1.0405
WEMD	Emu Downs	1.0205	0.9881
WENB	Eneabba	1.0321	1.0248
WFFD	Forrestfield	1.0409	1.0390
WFRT	Forrest Ave	1.0448	1.0433
WGGV	Golden Grove	1.0616	1.0556
WGNI	Glen Iris	1.0260	1.0270
WGNL	Gosnells	1.0294	1.0331
WGNN	Newgen Neerabup	1.0336	1.0350
WGTN	Geraldton	1.0106	1.0088
WHAY	Hay Street	1.0425	1.0411
WHBK	Henley Brook	1.0456	1.0428
WHFS	Hadfields	1.0436	1.0418
WHIS	Hismelt	1.0313	N/A
WHZM	Hazelmere	1.0368	1.0355
WJDP	Joondalup	1.0490	1.0394
WJTE	Joel Terrace	1.0431	1.0422
WKAT	Katanning	1.0690	1.0554
WKDA	Kalamunda	1.0435	1.0416
WKDL	Kewdale	1.0298	1.0325
WKDN	Kondinin	1.0457	1.0317
WKDP	Kwinana Desalination Plant	1.0334	1.0303
WKEL	Kellerberrin	1.0706	1.0640
WKEM	Kemerton PWS	1.0105	1.0108
WKMC	Cataby Kerr McGee	1.0357	1.0150
WKMK	Kerr McGee Kwinana	1.0284	1.0264
WKMM	Muchea Kerr McGee	1.0432	1.0322
WKND	Kwinana Donaldson Road (Western Energy)	1.0280	1.0266

TLF Code	Description	Applied in 2019/20	To apply in 2020/21
WKOJ	Kojonup	1.0340	1.0306
WKPS	Kwinana PWS	1.0292	1.0255
WLDE	Landsdale	1.0455	1.0421
WMAG	Manning Street	1.0454	1.0428
WMBR	Mt Barker	1.0636	1.0711
WMCR	Medical Centre	1.0488	1.0458
WMDN	Maddington	1.0287	1.0323
WMDY	Munday	1.0402	1.0379
WMED	Medina	1.0361	1.0356
WMER	Merredin	1.0620	1.0424
WMGA	Mungarra GTs	1.0107	1.0097
WMHA	Mandurah	1.0242	1.0383
WMIL	Milligan Street	1.0428	1.0407
WMJP	Manjimup	1.0209	1.0206
WMJX	Midland Junction	1.0371	1.0365
WMLG	Malaga	1.0393	1.0378
WMOR	Moora	1.0519	1.0425
WMOY	Morley	1.0440	1.0423
WMPS	Muja PWS	1.0000	1.0000
WMRR	Marriot Road	1.0126	1.0126
WMRV	Margaret River	1.1086	1.1131
WMSF	Merredin Solar Farm	1.0435	1.0435
WMSR	Mason Road	1.0306	1.0290
WMSS	Meadow Springs	1.0230	1.0374
WMUC	Muchea	1.0452	1.0350
WMUL	Mullaloo	1.0485	1.0409
WMUR	Murdoch	1.0263	1.0280
WMWR	Mundaring Weir	1.0572	1.0572
WMYR	Myaree	1.0513	1.0485
WNBH	North Beach	1.0469	1.0430
WNED	Nedlands	1.0460	1.0460
WNGK	NewGen Kwinana	1.0226	1.0220

TLF Code	Description	Applied in 2019/20	To apply in 2020/21
WNGN	Narrogin	1.0289	1.0214
WNOR	Northam	1.0621	1.0587
WNOW	Nowgerup	1.0454	1.0336
WNPB	North Perth	1.0437	1.0430
WOCN	O'Connor	1.0499	1.0479
WOPK	Osborne Park	1.0450	1.0412
WPBY	Padbury	1.0493	1.0433
WPCY	Piccadilly	1.1692	1.1348
WPIC	Picton	1.0171	1.0075
WPJR	Pinjar	1.0369	1.0274
WPKS	Parkeston	1.1633	1.1234
WPLD	Parklands	1.0200	1.0330
WPNJ	Pinjarra	1.0100	1.0266
WRAN	Rangeway	1.0140	1.0142
WRGN	Regans	1.0381	1.0245
WROH	Rockingham	1.0357	1.0357
WRTN	Riverton	1.0283	1.0310
WRVE	Rivervale	1.0306	1.0335
WSFT	South Fremantle	1.0419	1.0393
WSNR	Southern River	1.0290	1.0341
WSNX	Southern Cross		1.0843
WSPK	Shenton Park	1.0473	1.0431
WSRD	Sutherland	1.0432	1.0418
WSUM	Summer St	1.0425	1.0409
WSVY	Sawyers Valley	1.0472	1.0449
WTLA	Tianqi Lithium		1.0278
WTLN	Tomlinson Street	1.0352	1.0352
WTSG	Three Springs	1.0366	1.0288
WTST	Three Springs Terminal	1.0499	N/A
WTTS	Tate Street	1.0298	1.0330
WVPA	Victoria Park	1.0352	1.0352
WWAG	Wagin	1.0749	1.0610

TLF Code	Description	Applied in 2019/20	To apply in 2020/21
WWAI	Waikiki	1.0373	1.0402
WWCL	Western Collieries	0.9977	0.9918
WWDN	Wembley Downs	1.0496	1.0475
WWEL	Welshpool	1.0301	1.0331
WWGA	Wangara	1.0460	1.0407
WWGP	Wagerup	0.9849	0.9919
WWKT	West Kalgoorlie	1.1674	1.1393
WWLN	Willetton	1.0284	1.0309
WWMG	Western Mining	1.0326	1.0317
WWNO	Wanneroo	1.0497	1.0364
WWNT	Wellington Street	1.0437	1.0426
WWSD	Westralian Sands	1.0336	1.0143
WWUN	Wundowie	1.0670	1.0637
WWWF	Walkaway Windfarm	0.9447	0.9355
WYCP	Yanchep	1.0496	1.0362
WYDW	Yandin Wind Farm	1.0205	0.9881
WYER	Yerbillon	1.1201	1.0957
WYKE	Yokine	1.0439	1.0422
WYLN	Yilgarn	1.0967	1.0724

5. Average Distribution Loss Factors

Western Power has calculated the following average distribution loss factors for the 2020/21 financial year based on the Market Procedure:

Table 5.1 - Average Distribution Loss Factors

Customer Segment	Applicable Reference Services	DLF Code	Applied in 2019/20	To apply in 2020/21
Residential	A1 - Anytime Energy (Residential)	QRT1	1.0616	1.0672
	A3 - Time of Use Energy (Residential)			
	C1 – Anytime Energy (Residential) Bi-directional			
	C3 – Time of Use Energy (Residential) Bi-directional			
	A12 - 3 Part Time of Use Energy (Residential)			
	A14 - 3 Part Time of Use Demand (Residential)			
	A16 - Multi Use Part Time of Use Energy (Residential)			
	C9 - 3 Part Time of Use Energy (Residential) Bi-Directional			
	C11 - 3 Part Time of Use Demand (Residential) Bi-Directional			
	C13 - Multi Use Part Time of Use Energy (Residential) Bi-Directional			
Small Business	A2 - Anytime Energy (Business)	QRT2	1.0488	1.0519
	A4 - Time of Use Energy (Business)			
	C2 – Anytime Energy (Business) Bi-directional			
	C4 – Time of Use Energy (Business) Bi-directional			
	A13 - 3 Part Time of Use Energy (Business)			
	A15 - 3 Part Time of Use Demand (Business)			
	A17 - Multi Use Part Time of Use Energy (Business)			
	C10 - 3 Part Time of Use Energy (Business) Bi-directional			
	C12 - 3 Part Time of Use Demand (Business) Bi-directional			
	C14 - Multi Use Part Time of Use Energy (Business) Bi-directional			
Medium Business High Voltage	A5 - High Voltage Metered Demand	QRT5	1.0194	1.0210
	C5 - High Voltage Metered Demand Bi-Directional			
Medium Business Low Voltage	A6 - Low Voltage Metered Demand	QRT6	1.0435	1.0456
	C6 - Low Voltage Metered Demand Bi-Directional			

Zone Substation Connected	A7 - High Voltage Contract Maximum Demand (Zone Substation Connected)	QR7Z	1.0055	1.0055
	Zone Substation Connections	QZSC	1.0055	1.0055
Transmission Connected (No DLF)		QNLF	1.0000	1.0000
Notional Wholesale Meter		QNWM	1.0552	1.0600
Distribution System Wide Average Loss Factor		QAVG	1.0465	1.0492

6. Individual Distribution Loss Factors

Western Power has calculated the following individual distribution loss factors for the 2020/21 financial year.

Table 6.1 - Individual Distribution Loss Factors

DLF Code	Description	Applied in 2019/20	To apply in 2020/21
QAAL	AIR LIQUIDE AUSTRALIA LIMITED	1.0083	1.0104
QAHU	OAHU MANAGEMENT PTY LTD C/- HAWAIIAN PTY LTD	1.0106	1.0093
QAMP	AMP CAPITAL INVESTORS LIMITED	1.0155	1.0082
QANF	ANDERSON WIND FARM	1.005	1.0244
QARG	PADDINGTON GOLD MINE	1.029	1.007
QASA	ALLOY STEEL AUSTRALIA (INT) PTY LTD		1.0078
QAWF	ALBANY WIND FARM	0.9844	0.9757
QBBW	BREMER BAY WIND FARM	1.3752	1.3643
QBCB	BUNBURY CENTREPOINT SHOPPING CENTRE INVESTMENT TRUST	1.0078	1.0082
QBFB	BLAIR FOX PTY LTD	1.0054	1.0071
QBGB	BGC (AUSTRALIA) PTY LTD	1.0176	1.0151
QBGC	BGC (AUSTRALIA) PTY LTD	1.0084	1.0082
QBGM	BGM MANAGEMENT COMPANY PTY LTD	1.0346	1.0184
QBGP	BGC (AUSTRALIA) PTY LTD	1.0057	1.0062
QBGQ	BGC AUSTRALIA PTY LTD	1.0327	1.0303
QBMA	TIANYE SXO GOLD MINING PTY LTD	1.0732	1.0917
QBMB	HANKING GOLD MINING PTY LTD	1.0195	1.0398
QBNB	BGC (AUSTRALIA) PTY LTD	1.0167	1.0162
QBNE	BENDOTTI EXPORTERS PTY LTD		1.0183
QBOC	BOC LIMITED	1.0062	1.0072
QBPA	SOUTHERN PORTS AUTHORITY PORT OF BUNBURY	1.0085	1.0087
QBTF	INVESTA NOMINEES (2) PTY LTD AND COMMONWEALTH SUPERANNUATION CORPORATION	1.0092	1.0079
QBUL	CO OPERATIVE BULK HANDLING LTD	1.0358	1.0351
QBUR	BURSWOOD NOMINEES LIMITED AS TRUSTEE FOR THE BURSWOOD	1.0064	1.0064
QBUS	BURSWOOD NOMINEES LIMITED AS TRUSTEE FOR THE BURSWOOD PROPERTY TRUST	1.0051	1.0073

DLF Code	Description	Applied in 2019/20	To apply in 2020/21
QCAS	CASTELLI NOMINEES PTY LTD	1.005	1.0188
QCBC	COCKBURN CEMENT LIMITED	1.0915	1.1125
QCBH	CO OPERATIVE BULK HANDLING LTD	1.0618	1.0507
QCBK	CO OPERATIVE BULK HANDLING LTD	1.0113	1.0075
QCEN	SCENTRE SHOPPING CENTRE MANAGEMENT (WA) PTY LTD AS AGENT FOR & ON BEHALF OF ENTITIES IN SCHED 1	1.005	1.0075
QCHP	W.A. CHIP & PULP CO PTY LTD		1.0071
QCMA	TRONOX MINING AUSTRALIA LIMITED	1.0377	1.053
QCMT	COCKBURN CEMENT LIMITED	1.0153	1.0172
QCPC	CALARDU PERTH CITY WEST & GERALD HARVEY	1.0081	1.0073
QCPU	CBUS PROPERTY PTY LTD	1.0082	1.0082
QCSW	TRONOX MINING AUSTRALIA LIMITED	1.0111	1.0113
QCTE	A RICHARDS PTY LTD	1.0072	1.0206
QDCS	CASUARINA PRISON	1.0085	1.0089
QDER	DEPT OF ENVIRONMENT REGULATION	1.0206	1.0135
QDFM	DEXUS FUNDS MANAGEMENT LIMITED	1.0078	1.0085
QDSX	DEXUS FUNDS MANAGEMENT LIMITED	1.005	1.0097
QDTO	DATO HOLDINGS PTY LTD	1.0064	1.0076
QDVC	DAVID JONES PTY LTD	1.0091	1.009
QDWF	DENMARK COMMUNITY WINDFARM LTD	1.3682	1.3433
QDWL	DARWILL PTY LTD	1.0118	1.0125
QDXE	DEXUS FUNDS MANAGEMENT LIMITED	1.005	1.0116
QEAP	EQUINIX AUSTRALIA PTY LTD	1.0069	1.0076
QEPF	ENVIRO PIPES PTY LTD		1.0059
QEPH	ENVIRO PIPES PTY LTD		1.0056
QERD	EVERGREEN REALTY PTY LTD	1.0074	1.008
QFER	FAR EAST RIVERSIDE (PERTH) PTY LTD	1.0075	1.008
QFFM	WESTERN AREAS LTD	1.1313	1.1409
QFLM	LA MANCHA RESOURCES AUST PTY LTD	1.0143	1.0059
QFUJ	FUJITSU AUSTRALIA LIMITED	1.0058	1.0075
QFUR	FURMANITE AUSTRALIA PTY LTD	1.005	1.0163

DLF Code	Description	Applied in 2019/20	To apply in 2020/21
QGDI	GDI NO.44 PTY LTD AFT GDI NO.44 TRUST	1.0159	1.0084
QGLG	DEPARTMENT OF LOCAL GOVERNMENT SPORT AND CULTURAL INDUSTRIES	1.0058	1.0149
QGMC	CRAIG MOSTYN & CO PTY LTD	1.0071	1.0055
QGMM	GOLDEN MILE MILLING PTY LTD		1.012
QGRA	GRAND HOTEL MANAGEMENT PTY LTD AS THE TRUSTEE FOR GRAND HOTEL TRUST	1.009	1.0122
QGRI	GRIFFIN COAL (THE GRIFFIN COAL MINING COMPANY PTY LTD)	1.0147	1.0394
QGWF	GEORGE WESTON FOODS LIMITED	1.0065	1.0069
QHAI	GOVERNORS OF HALE SCHOOL		1.0102
QHEL	HEALTH SCOPE PTY LTD	1.0057	1.0265
QHFM	LACTALIS AUSTRALIA PTY LTD	1.014	1.0371
QHLG	WASTE GAS RESOURCES PTY LTD	1.0098	1.0042
QHMP	FMR INVESTMENTS PTY LTD	1.0605	1.0731
QHRO	HR OPERATION PTY LTD	1.0106	1.015
QHVI	HARVEY BEED	1.1358	1.1397
QIEW	INGHAMS ENTERPRISES PTY LTD		1.0091
QIRE	ILUKA RESOURCES LTD		1.006
QIRL	ILUKA RESOURCES LTD	1.0713	1.0655
QIRN	IMAGE RESOURCES NL	1.0485	1.0672
QISH	ISPT PTY LTD		1.0077
QISM	ISPT PTY LTD		1.0077
QISP	ISPT PTY LTD	1.0155	1.007
QISU	ISPT PTY LTD	1.0097	1.0088
QJOE	CARGILL MALT ASIA PACIFIC PTY LTD (WA) CARGILL MALT ASIA PACIFIC PTY LTD	1.018	1.0159
QKBG	NORTHERN STAR (KANOWNA) LIMITED	1.0963	1.0878
QKEM	KEMERTON SILICA SAND PTY LTD	1.1541	1.1335
QKEY	KEYSBROOK LEUCOXENE PTY LTD	1.0217	1.0075
QKNV	KAEFER NOVACOAT PTY LTD		1.0062
QKUD	NORTHERN STAR (HBJ) PTY LTD	1.0417	1.0273
QKWF	VERVE ENERGY	1.1069	1.1031

DLF Code	Description	Applied in 2019/20	To apply in 2020/21
QLEH	LEGION ENERGY PTY LTD		1.0058
QLES	LENDLEASE PROPERTY MANAGEMENT	1.0062	1.0109
QLGA	LANDFILL GAS & POWER PTY LTD	1.0073	1.0213
QLGC	LANDFILL GAS & POWER PTY LTD	1.005	1.0077
QLGD	LANDFILL GAS & POWER PTY LTD	1.0074	1.0055
QLGE	LEGION ENERGY PTY LTD	1.0082	1.0176
QLHT	HAWAIIAN INVESTMENTS PTY LTD C/- HAWAIIAN PTY LTD	1.0069	1.0092
QLJS	LENDLEASE PROPERTY MANAGEMENT	1.0177	1.0078
QLMR	EVOLUTION MINING (MUNGARRI) PTY LTD	1.0668	1.091
QLNL	LENDLEASE PROPERTY MANAGEMENT	1.0181	1.0188
QLPG	FAR EAST HARBOUR TOWN PTY LTD	1.0129	1.0135
QLPM	LENDLEASE PROPERTY MANAGEMENT	1.0093	1.0096
QLSP	LENDLEASE PROPERTY MANAGEMENT	1.0059	1.0245
QMAR	MILNE AGRIGROUP PTY LTD		1.0092
QMBW	MT BARKER POWER COMPANY	1.0409	1.0305
QMEE	SCENTRE SHOPPING CENTRE MANAGEMENT (WA) PTY LTD AS AGENT FOR & ON BEHALF OF ENTITIES IN SCHED 1	1.0075	1.0075
QMGS	VICINITY CENTRES PM PTY LTD	1.0066	1.0062
QMHP	MIDPOINT HOLDINGS PTY TD	1.0073	1.0095
QMIC	TRONOX PIGMENT BUNBURY LTD	1.0184	1.0257
QMIL	MILNE AGRIGROUP PTY LTD	1.005	1.0078
QMIR	MIRVAC REAL ESTATE PTY LTD	1.0068	1.0102
QMPPM	METRO POWER COMPANY PTY LTD	1.0129	1.0109
QMRS	MURDOCH RETIREMENT SERVICES PTY LTD		1.0087
QMRY	MURDOCH UNIVERSITY	1.0088	1.0075
QMTC	METCASH TRADING LIMITED	1.0102	1.0101
QNEW	NEWMONT POWER PTY LTD	1.0368	1.0523
QNXD	NEXTDC LIMITED		1.007
QPAG	PADDINGTON GOLD MINE	1.0577	1.0476
QPAN	THE TRUSTEE FOR SUCCESS VENTURE WA UNIT TRUST	1.0119	1.0131
QPEA	LANDFILL MANAGEMENT SYSTEMS	1.0061	1.0159

DLF Code	Description	Applied in 2019/20	To apply in 2020/21
QPBE	ASSET MANAGER AGL NATIONAL ASSETS	1.0103	0.9966
QPED	LANDFILL MANAGEMENT SYSTEMS	1.005	1.0159
QPEN	PENRHOS COLLEGE		1.0062
QPER	PERPETUAL TRUSTEE COMPANY LIMITED	1.0077	1.0079
QPLA	PLANTATION ENERGY AUSTRALIA PTY LTD	1.0244	1.0425
QPMP	OVATO PRINT PTY LTD	1.0112	1.0112
QPTA	PUBLIC TRANSPORT AUTHORITY OF WESTERN AUSTRALIA	1.0086	1.0106
QPWA	PRIMEWEST (AUSTRALIA PLACE) PTY LTD	1.0067	1.0075
QPWQ	PWQ PTY LTD ATF QUADRANT SUB TRUST	1.0072	1.0062
QRCS	VICINITY CENTRES PM PTY LTD ROCKINGHAM CITY SHOPPING CENTRE	1.0097	1.0083
QRPH	EAST METROPOLITAN HEALTH SERVICE	1.0083	1.0102
QRRR	DOD - RAAF PEARCE	1.1494	1.1379
QSAD	SCENTRE SHOPPING CENTRE MANAGEMENT (WA) PTY LTD AS AGENT FOR & ON BEHALF OF ENTITIES IN SCHED 1	1.0109	1.0057
QSAP	W A SPECIALTY ALLOYS PTY LTD	1.0068	1.0067
QSER	SERCO AUSTRALIA PTY LIMITED NMI-8001006864	1.0433	1.0223
QSGJ	ST JOHN OF GOD HEALTH CARE - MIDLAND	1.0298	1.0081
QSIT	SUEZ RECYCLING & RECOVERY PTY LTD	1.014	1.0057
Qsjb	ST JOHN OF GOD HEALTH CARE BUNBURY		1.0064
Qsjg	ST JOHN OF GOD HEALTH CARE INCORPORATED	1.0186	1.0167
Qsjm	ST JOHN OF GOD HEALTH CARE INCORPORATED	1.0081	1.0066
Qsjo	ST JOHN OF GOD HEALTH CARE INCORPORATED	1.0093	1.0105
QSMH	SOUTH METROPOLITAN HEALTH SERVICE	1.0181	1.0098
QSMP	ST MARTINS PROPERTIES AUSTRALIA	1.0064	1.0094
QSMR	SOUTHERN METROPOLITAN REGIONAL COUNCIL	1.0102	1.0055
QSPB	SPB (AUST) PTY LTD & QIC CM PTY LTD C/- HAWAIIAN PTY LTD		1.0073
QSPQ	DOWNER EDI SERVICES PTY LTD	1.0102	1.0086
QSPR	BOOKITJA PTY LTD & IBA NORTHAM SOLAR PTY LTD & NORTHAM SOLAR FARM A PTY LTD	0.9742	0.9984
QSPS	STOCKLAND PROPERTY MANAGEMENT PTY LTD		1.0074

DLF Code	Description	Applied in 2019/20	To apply in 2020/21
QSPT	DOWNER EDI SERVICES PTY LTD	1.0064	1.007
QSPW	STOCKLAND PROPERTY MANAGEMENT PTY LTD		1.0116
QTAL	TALISON LITHIUM AUSTRALIA PTY LTD	1.0734	1.0594
QTCG	TESLA GERALDTON PTY LTD	1.0115	1.0102
QTCK	TESLA KEMERTON PTY LTD	1.005	1.0029
QTCL	TELSTRA CORPORATION LTD	1.0197	1.0276
QTCM	TELSTRA CORPORATION LTD		1.0068
QTCN	TESLA NORTHAM PTY LTD	1.0158	1.0055
QTES	TESLA CORPORATION MANAGEMENT PTY LTD	1.005	1.0134
QTIF	LEGION ENERGY PTY LTD	1.0115	1.0093
QVIC	VICINITY CENTRES PM PTY LTD	1.0066	1.0165
QVID	VICINITY CENTRES PM PTY LTD WARWICK GROVE	1.0186	1.0184
QVPL	VINIDEX PTY LTD	1.0093	1.01
QVVM	V&V WALSH MEAT PROCESSORS & EXPORTERS	1.0144	1.0107
QWAN	WESTERN AREAS LTD	1.116	1.1064
QWAS	WESTERN AUSTRALIAN SPORTS CENTRE TRUST		1.0068
QWBE	WESBEAM PTY LTD	1.0142	1.0122
QWCB	WATER CORPORATION	1.0086	1.0139
QWCE	WATER CORPORATION	1.0241	1.0063
QWCI	WATER CORPORATION	1.0131	1.0122
QWCJ	WATER CORPORATION	1.0111	1.0061
QWCK	WATER CORPORATION	1.0086	1.0083
QWCL	WATER CORPORATION	1.018	1.0094
QWCM	WATER CORPORATION	1.0115	1.0162
QWCO	WATER CORPORATION	1.0147	1.0316
QWCS	SCENTRE SHOPPING CENTRE MANAGEMENT (WA) PTY LTD AS AGENT FOR & ON BEHALF OF ENTITIES IN SCHED 1		1.0134
QWCW	WATER CORPORATION	1.0369	1.0368
QWDB	WATER CORPORATION	1.0071	1.0131
QWDE	WATER CORPORATION	1.0051	1.0139
QWDK	WATER CORPORATION	1.0274	1.0139

DLF Code	Description	Applied in 2019/20	To apply in 2020/21
QWFL	WLPG PTY LTD	1.0064	1.0112
QWGS	VICINITY CENTRES PM PTY LTD VICINITY GALLERIA SITE 1	1.0121	1.0144
QWHF	WEST HILLS FARM P/L	1.0489	1.0597
QWHS	SCENTRE SHOPPING CENTRE MANAGEMENT (WA) PTY LTD AS AGENT FOR & ON BEHALF OF ENTITIES IN SCHED 1	1.0262	1.0195
QWLT	WESTERN LIBERTY GROUP PTY LTD TRADING AS WESTERN LIBERTY TRUST		1.0066
QWMD	FLETCHER BUILDING (AUSTRALIA) PTY LTD - LAMINEX GROUP PTY LTD	1.0132	1.038
QWSI	VICINITY CENTRES PM PTY LTD	1.0196	1.0341

7. Explanation for Changes in Loss Factors

In accordance with clause 2.21(b)ii of the Market Procedure Western Power is required to provide an explanation for any changes of more than 0.025 in any transmission or distribution loss factors when compared to the previous year.

In general, loss factors increase with demand at a node and decrease with increasing generation at a node. Loss factors can also be affected by changes in network configuration.

7.1 Transmission loss factors

Loss factors for the transmission network are calculated based on half hour data for the whole system over the whole year. Individual transmission loss factors are not only affected by the quantity of usage at a node but also the time the usage occurs and being a meshed network, they are also affected by usage at other nearby nodes.

Table 7.1 is a list of the transmission loss factors that moved by more than 0.025 in 2020/21. As described above, specific reasons for the movements are difficult to determine.

The loss factor for Merredin Power Station can be volatile due to low generation output. Yandin Wind Farm's loss factor is tracking against Emu Downs until such time as sufficient information is available.

Table 7.1 - Transmission Loss Factors changed by more than 0.025

TLF Code	Description	Applied in 2019/20	To apply in 2020/21	Change
TAPA	Alcoa Pinjarra (Alcoa)	0.9771	1.0093	0.0322
TAPL	Alcoa Pinjarra (Alinta)	0.9767	1.0074	0.0307
TBLS	Boulder (SCE)	1.1689	1.1330	-0.0359
TMDP	Merredin Power Station	0.9654	1.0002	0.0348
WBKF	Black Flag	1.1867	1.1549	-0.0318
WBLD	Boulder	1.1710	1.1373	-0.0337
WCLP	Coolup	1.0591	1.0178	-0.0413
WEMD	Emu Downs	1.0205	0.9881	-0.0324
WPCY	Piccadilly	1.1692	1.1348	-0.0344
WPKS	Parkeston	1.1633	1.1234	-0.0399
WWKT	West Kalgoorlie	1.1674	1.1393	-0.0281
WYDW	Yandin Wind Farm	1.0205	0.9881	-0.0324

7.2 Individual distribution loss factors

This year there were no individual distribution loss factors that changed more than 0.025 when compared to the previous year.

Appendix A

Individual Transmission Loss Factors by NMI

A.1 Individual Transmission Loss Factors by NMI

The following NMIs are for customers connected directly to the transmission system along with the transmission loss factor code Western Power has assigned.

Table 7.2 - Transmission Loss Factors by NMI

NMI	TLF Code
8001000116	WBHK
8001000118	WKMK
8001000126	WWMG
8001000127	WWMG
8001000128	WWMG
8001000129	WCCL
8001000279	WPKS
8001000291	WAFM
8001000347	WEDG
8001000499	TMSK
8001000500	TMSK
8001000616	WKMM
8001000640	WWCL
8001000641	WWCL
8001000646	WGGV
8001000659	WKMC
8001000732	TAPA
8001000733	WAKW
8001000736	WCBP
8001000741	TBLS
8001000743	TWOW
8001000744	TWOJ
8001000764	WSUM
8001000776	WWSD
8001000954	TAPA
8001001007	WWGP
8001001211	WWWF

NMI	TLF Code
8001001212	WWWF
8001016070	WBEC
8001018020	WKEM
8001018021	WKEM
8001018932	TAPL
8001019478	TWOW
8001019484	WEMD
8001019485	WEMD
8001019487	WKDP
8001019590	TOLA
8001019784	TLWA
8001019785	TLWA
8001019790	WPLD
8001019791	WGNI
8002013337	TBLB
8002013343	WNGK
8002013364	WMPS
8002013365	WKPS
8002013366	WCPS
8002013368	WPJR
8002013369	WKPS
8002013370	WGTN
8002013371	TWKG
8002013372	WMGA
8002013375	WBGM
8002013379	WKMK
8002013796	TBLB
8002014313	WPKS
8002015326	WGNN
8002016124	WKND
8002016403	WCGW
8002016404	WCGW

NMI	TLF Code
8002016407	TWOW
8002016415	WBSI
8002016416	WBSI
8002016417	WBSI
8002016491	TKRA
8002016504	WKPS
8002016505	WKPS
8002016506	TMGS
8002016510	TMDP
8002016519	TMBA
8002016571	WNOW
8002016585	WSRD
8002112635	WBDP
8002016652	WBWF
8002016665	WYDW
8002016666	WMSF

Appendix B

Individual Distribution Loss Factors by NMI

B.1 Individual Distribution loss factors by NMI

The individual distribution loss factors calculated for the 2020/21 financial year are associated with the following NMIs.

No NMI was available at the time of calculation for Bremer Bay Windfarm (QBBW), however a DLF code and value is required and has been calculated accordingly.

Table 7.3 - Individual Distribution Loss Factors by NMI

NMI	DLF Code	_Required or Optional ²
8001000286	QAAL	Optional
8002227231	QAAL	Optional
8002227767	QAAL	Required
8001002905	QAHU	Optional
8001000548	QAMP	Optional
8001000549	QAMP	Optional
8002188795	QAMP	Optional
8002188797	QAMP	Optional
8002148204	QANF	Required
8001000493	QARG	Required
8001017024	QASA	Optional
8001000707	QAWF	Required
8001000708	QAWF	Required
No NMI available	QBBW	Required
8001000679	QBCB	Optional
8001000680	QBCB	Optional
8002019353	QBGB	Optional
8001000864	QBGC	Optional
8001020092	QBGM	Required
8001000274	QBGP	Optional
8002067264	QBGQ	Required
8001001009	QBMA	Required
8001000359	QBMB	Required

² Individual distribution loss factors have been assessed as either required or optional in accordance with section 3.2.5 of the Market Procedure. The calculation of optional distribution loss factors is at the cost of the retailer.

NMI	DLF Code	_Required or Optional ²
8001003787	QBNB	Required
8001006988	QBNE	Optional
8002206185	QBOC	Required
8001000329	QBPA	Required
8001000703	QBTF	Optional
8001000704	QBTF	Optional
8001009577	QBUL	Required
8001000652	QBUR	Optional
8001000653	QBUR	Optional
8002250697	QBUS	Optional
8002250698	QBUS	Optional
8001790061	QCAS	Required
8001000428	QCBC	Required
8001000780	QCBH	Required
8001000432	QCBK	Optional
8001003155	QCEN	Optional
8001000857	QCHP	Optional
8002166160	QCMA	Required
8001000421	QCMT	Optional
8001000598	QCPC	Optional
8001000599	QCPC	Optional
8002016087	QCPU	Optional
8002073940	QCPU	Optional
8001000107	QCSW	Optional
8001012464	QCTE	Required
8001008631	QDCS	Required
8002049183	QDER	Required
8001000589	QDFM	Optional
8001000590	QDFM	Optional
8001011671	QDSX	Optional
8001010862	QDTO	Optional
8001000561	QDVC	Optional

NMI	DLF Code	_Required or Optional ²
8001000562	QDVC	Optional
8002016529	QDWF	Required
8001000366	QDWL	Optional
8001013234	QDXE	Optional
8002182945	QEAP	Optional
8002118572	QEPF	Optional
8002288743	QEPH	Optional
8001000579	QERD	Optional
8001000580	QERD	Optional
8001000563	QFER	Optional
8001000564	QFER	Optional
8001000287	QFFM	Required
8002034918	QFLM	Required
8002081338	QFUJ	Optional
8002221497	QFUR	Required
8001000577	QGDI	Optional
8001000578	QGDI	Optional
8001003397	QGLG	Optional
8001000766	QGMC	Optional
8001000294	QGMM	Optional
8001017256	QGRA	Optional
8001017284	QGRI	Required
8001000265	QGWF	Optional
8001000271	QGWF	Optional
8001003900	QHAL	Optional
8001014469	QHEL	Optional
8002016580	QHFM	Required
8001019433	QHLG	Required
8001000451	QHMP	Required
8001015838	QHRO	Optional
8001000345	QHVI	Required
8001011585	QIEW	Optional

NMI	DLF Code	_Required or Optional ²
8001000837	QIRE	Optional
8002319360	QIRL	Required
8002316600	QIRN	Required
8002317197	QISH	Optional
8002276877	QISM	Optional
8002027039	QISP	Optional
8002027040	QISP	Optional
8001008755	QISU	Optional
8001000792	QJOE	Optional
8001000824	QKBG	Required
8001000125	QKEM	Required
8002247735	QKEY	Required
8001001547	QKNV	Optional
8001000269	QKUD	Required
8001000669	QKUD	Required
8001000670	QKUD	Required
8002013336	QKWF	Required
8002163613	QLEH	Optional
8002008582	QLES	Optional
8002183852	QLES	Optional
8001000158	QLGA	Required
8001000738	QLGC	Required
8001000234	QLGD	Required
8001000371	QLGE	Optional
8001002178	QLGE	Optional
8001002551	QLHT	Optional
8001000667	QLJS	Optional
8001000668	QLJS	Optional
8002191360	QLMR	Required
8001000781	QLNL	Optional
8001005378	QLPG	Optional
8001020102	QLPM	Optional

NMI	DLF Code	_Required or Optional ²
8001011208	QLSP	Optional
8001005733	QMAR	Optional
8002016408	QMBW	Required
8001000673	QMEE	Optional
8001000674	QMEE	Optional
8001000681	QMGS	Optional
8001000682	QMGS	Optional
8001019556	QMHP	Optional
8001000706	QMIC	Required
8001014755	QMIL	Optional
8001000565	QMIR	Optional
8001000566	QMIR	Optional
8002016650	QMPPM	Required
8001259738	QMRS	Optional
8001000516	QMRY	Optional
8001000517	QMRY	Optional
8001000697	QMTC	Optional
8001000698	QMTC	Optional
8001000998	QNEW	Required
8002187958	QNXD	Optional
8001000745	QPAG	Required
8001000689	QPAN	Optional
8001000690	QPAN	Optional
8001000916	QPEA	Required
8001000122	QPEB	Required
8001018080	QPED	Required
8001003672	QPEN	Optional
8001000573	QPER	Optional
8001000574	QPER	Optional
8002057792	QPLA	Required
8001000875	QPMP	Optional
8001010090	QPTA	Optional

NMI	DLF Code	_Required or Optional ²
8001000557	QPWA	Optional
8001000558	QPWA	Optional
8001000559	QPWQ	Optional
8001000560	QPWQ	Optional
8001000687	QRCS	Optional
8001000688	QRCS	Optional
8001000665	QRPH	Optional
8001000666	QRPH	Optional
8001000863	QRRR	Required
8001000695	QSAD	Optional
8001000696	QSAD	Optional
8001000298	QSAP	Optional
8001006864	QSER	Required
8002214497	QSGJ	Optional
8002055189	QSIT	Required
8001000876	QSJB	Optional
8001000860	QSJG	Optional
8001001128	QSJG	Optional
8001000394	QSJM	Optional
8002174244	QSJM	Optional
8001000789	QSJO	Optional
8001000506	QSMH	Optional
8001000507	QSMH	Optional
8001000519	QSMP	Optional
8001000520	QSMP	Optional
8001014850	QSMR	Optional
8002049586	QSPB	Optional
8001000591	QSPO	Optional
8001000592	QSPO	Optional
8002016649	QSPP	Required
8002263036	QSPS	Optional
8001017512	QSPT	Optional

NMI	DLF Code	_Required or Optional ²
8001993169	QSPW	Optional
8001000121	QTAL	Required
8002016651	QTAL	Required
8002016507	QTCG	Required
8002016508	QTCK	Required
8001000642	QTCL	Required
8001000831	QTCM	Optional
8001000839	QTCM	Optional
8002016509	QTCN	Required
8002016420	QTES	Required
8001001110	QTIF	Optional
8001344801	QTIF	Optional
8001000535	QVIC	Optional
8001000536	QVIC	Optional
8001006380	QVIC	Optional
8001000675	QVID	Optional
8001000676	QVID	Optional
8001000304	QVPL	Optional
8002119358	QVVM	Optional
8001000878	QWAN	Required
8001000650	QWBE	Optional
8001000651	QWBE	Optional
8001000280	QWCB	Optional
8001000282	QWCE	Optional
8001008047	QWCI	Optional
8002016648	QWCJ	Optional
8002109233	QWCJ	Optional
8001000623	QWCK	Optional
8001000624	QWCK	Optional
8002256973	QWCL	Optional
8001006363	QWCM	Optional
8001000357	QWCO	Required

NMI	DLF Code	_Required or Optional ²
8001000693	QWCS	Optional
8001000694	QWCS	Optional
8002162137	QWCS	Optional
8001000284	QWCW	Required
8001000259	QWDB	Optional
8002324711	QWDE	Optional
8001000281	QWDK	Required
8001000829	QWFL	Optional
8001000677	QWGS	Optional
8001000678	QWGS	Optional
8002016499	QWHF	Required
8001000691	QWHS	Optional
8001000692	QWHS	Optional
8001988953	QWLT	Optional
8001000325	QWMD	Required
8001017152	QWSI	Optional
8002209093	QWAS	Optional
8002292810	QWAS	Optional

Appendix C

Extinct Loss Factor Codes

C.1 Extinct Loss Factor Codes

The following loss factor codes have not been recalculated for the 2020/21 financial year.

Table 7.4 - Individual Distribution Loss Factors

Loss Factor Code	Reason not calculated
QAPI	Not requested by retailer
QBFO	Not requested by retailer
QBKS	Not requested by retailer
QBLB	Not requested by retailer
QBWE	Not requested by retailer
QCEM	Not eligible for consideration
QDOF	Not requested by retailer
QDPL	Not requested by retailer
QECU	Not requested by retailer
QESJ	Not requested by retailer
QFIE	Not eligible for consideration
QFPA	Not requested by retailer
QIPW	Not requested by retailer
QJAN	Not requested by retailer
QNAN	Not requested by retailer
QPTC	Not requested by retailer
QROC	Not requested by retailer
QSPM	Not requested by retailer
QTMH	Not eligible for consideration
QUWA	Not requested by retailer
QWAC	Not requested by retailer
QWCD	Not requested by retailer
QWMI	Not requested by retailer
QWPL	Not requested by retailer
QYTE	Not requested by retailer
QGTS	Average value applied
QWCF	Average value applied
QWCN	Average value applied

Loss Factor Code	Reason not calculated
QMID	Average value applied
QMIE	Average value applied
QMIJ	Average value applied
QR13	Change in methodology from previous year
QR14	Change in methodology from previous year
QR15	Change in methodology from previous year
QR16	Change in methodology from previous year
QRT3	Change in methodology from previous year
QRT4	Change in methodology from previous year

Table 7.5: Individual Transmission Loss Factors

Loss Factor Code	Reason not calculated
WHIS	Substation has been decommissioned
WTST	Loss Factor Code not needed