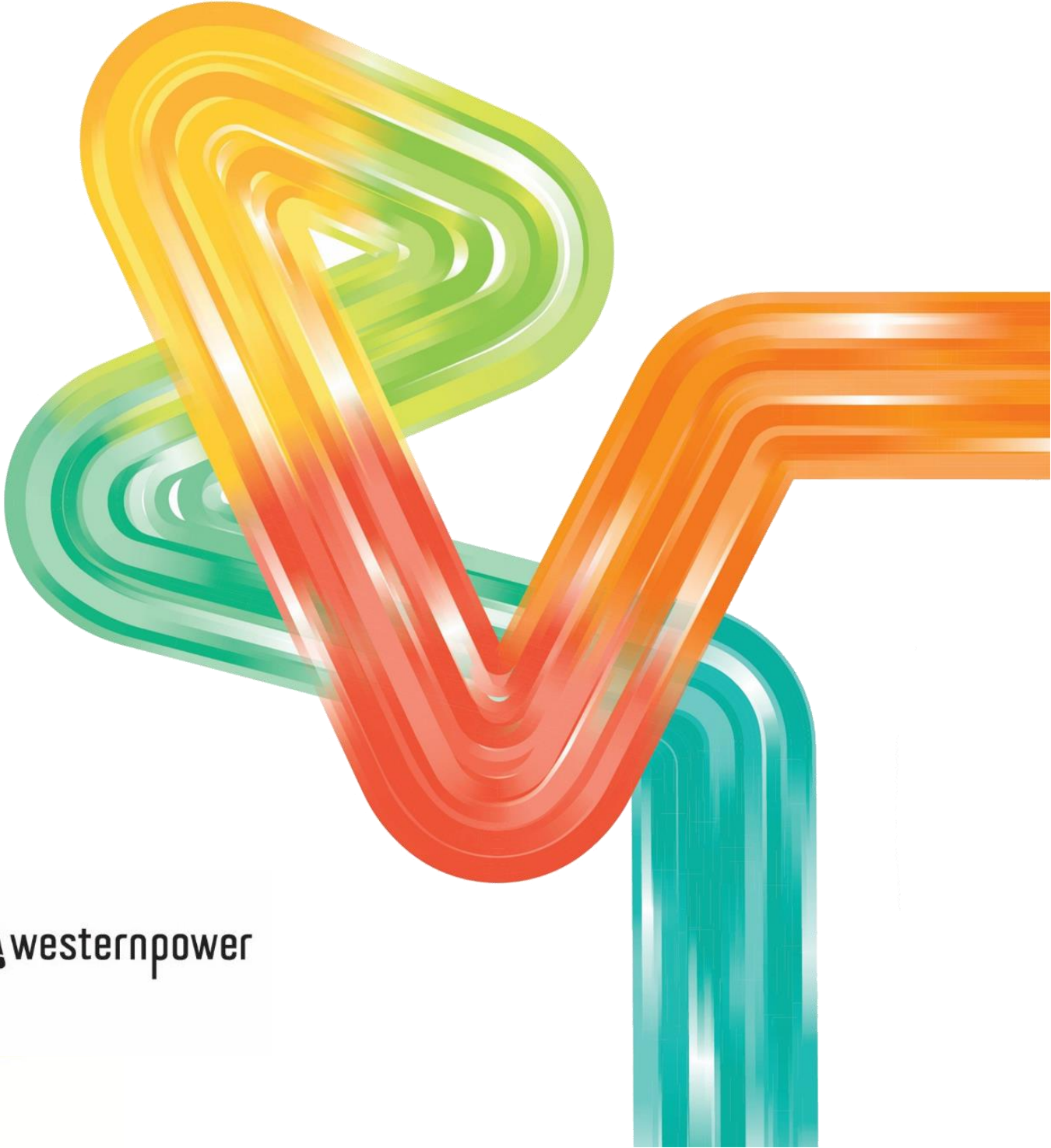


# 2023/24 Loss Factor Report

Public

1 June 2023



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# 1. Introduction

This report details the loss factors calculated for the 2023/24 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.<sup>1</sup> 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;

<sup>1</sup> 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 2023.

#### 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
A19 – Super Off-peak Energy (Business) Exit Service
C17 – Super Off-peak Energy (Business) Bi-directional Service
A18 – Super Off-peak Energy (Residential) Exit Service
C16 – Super Off-peak Energy (Residential) Exit Service

**AA4 Reference services that are 'Applicable Reference Services'**

A21 – Super Off-peak Demand (Business) Exit Service

C19 – Super Off-peak Demand (Business) Bi-directional Service

A20 – Super Off-peak Demand (Residential) Exit Service

C18 – Super Off-peak Demand (Residential) Bi-directional Service

C23 – LV Distribution Storage Bidirectional Service

C24 – HV Distribution Storage Bidirectional Service

A22 – Low Voltage Electric Vehicle Charging Exit Service

C20 – Low Voltage Electric Vehicle Charging Bi-directional Service

A23 – High Voltage Electric Vehicle Charging Exit Service

C21 – High Voltage Electric Vehicle Charging Bi-directional Service

## 4. Transmission Loss Factors

Western Power has calculated the following transmission loss factors for the 2023/24 financial year. For the 2023/24 financial year, Western Power is required to publish Transmission Loss Factors in two different forms, following the change to the Reference Node<sup>2</sup> on the New WEM Commencement Day.

**Table 4.1 - Transmission Loss Factors**

TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until the New WEM Commencement Day	To apply from the New WEM Commencement Day
TAPA	Alcoa Pinjarra (Alcoa)	1.0223	0.9829	0.9636
TAPL	Alcoa Pinjarra (Alinta)	1.0230	0.9782	0.9576
TBLB	Bluewaters	1.0005	0.9995	0.9753
TBLS	Boulder (SCE)	1.1022	1.1740	1.1490
TKRA	Karara Three Springs	1.0253	1.0095	0.9923
TLWA	Landwehr (Alinta)	1.0150	1.0098	0.9812
TMBA	Mumbida Wind Farm	0.9216	0.9297	0.9121
TMDP	Merredin Power Station	0.8750	0.9630	0.9300
TMGS	Greenough River Solar Farm	0.9538	0.9470	0.9313
TOLA	Oakley (Alinta)	1.0200	1.0123	0.9911
TSAV	Transmission SWIN Average	1.0391	1.0270	1.0075
TUAV	Transmission Urban Average	1.0458	1.0298	1.0107
TWKG	West Kalgoorlie GTs	1.0948	1.0414	1.0085
TWOJ	Worsley (Joint Venture)	0.9856	0.9798	0.9579
TWOW	Worsley (Worsley)	0.9855	0.9797	0.9595
WAFM	Australian Fused Materials	1.0442	1.0109	0.9970
WAKW	Kwinana Alcoa	1.0418	1.0143	0.9962
WALB	Albany	1.0733	1.0668	1.0433
WAMT	Amherst	1.0539	1.0307	1.0115
WAPM	Australian Paper Mills	1.0582	1.0331	1.0144

<sup>2</sup> WEM Rules definition:

Reference Node: Is:

(a) up to the New WEM Commencement Day, the Muja 330 kV bus-bar; and

(b) on and from the New WEM Commencement Day, the Southern Terminal 330 kV bus-bar,.



TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until the New WEM Commencement Day	To apply from the New WEM Commencement Day
WARK	Arkana	1.0419	1.0290	1.0096
WBCH	Beechboro	1.0437	1.0303	1.0103
WBCT	Balcatta	1.0425	1.0295	1.0103
WBDE	Baandee	1.0464	1.0653	1.0428
WBDP	Binningup Desalination Plant	1.0180	1.0146	0.9953
WBEC	Beckenham	1.0336	1.0221	1.0038
WBEL	Belmont	1.0371	1.0253	1.0070
WBGGM	Boddington Gold Mine	1.0112	1.0100	0.9910
WBWF	Badgingarra Wind Farm	0.9696	0.9597	0.9415
WBHK	Broken Hill Kwinana	1.0419	1.0154	0.9985
WBIB	Bibra Lake	1.0524	1.0256	1.0066
WBKF	Black Flag	1.1625	1.1978	1.1739
WBLD	Boulder	1.1439	1.1830	1.1591
WBNP	Beenup	1.0339	1.0366	1.0146
WBNY	Bounty	1.0692	1.0858	1.0640
WBOD	Boddington	1.0102	1.0085	0.9879
WBPM	British Petroleum	1.0437	1.0085	0.9933
WBSI	Marriott Road Barrack Silicon Smelter	1.0163	1.0151	0.9963
WBSN	Busselton	1.0644	1.0491	1.0281
WBTN	Bridgetown	1.0183	1.0204	0.9997
WBTY	Bentley	1.0379	1.0267	1.0091
WBUH	Bunbury Harbour	1.0142	1.0128	0.9918
WBYF	Byford	1.0452	1.0266	1.0067
WCAP	Capel	1.0491	1.0437	1.0231
WCAR	Carrabin	1.0886	1.1111	1.0883
WCBP	Mason Road CSBP	1.0421	1.0170	0.9993
WCCL	Cockburn Cement Ltd	1.0364	1.0178	1.0015
WCCT	Cockburn Cement	1.0407	1.0205	1.0019

TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until the New WEM Commencement Day	To apply from the New WEM Commencement Day
WCGW	Collgar Windfarm	0.9537	0.9923	0.9687
WCKN	Clarkson	1.0402	1.0246	1.0045
WCKT	Cook Street	1.0449	1.0326	1.0141
WCLN	Clarence Street	1.0451	1.0302	1.0114
WCLP	Coolup	1.0268	1.0344	1.0091
WCOE	Collie	1.0161	1.0158	0.9940
WCOL	Collier	1.0458	1.0310	1.0119
WCPN	Chapman	1.0113	0.9944	0.9748
WCPS	Collie PWS	0.9951	0.9955	0.9698
WCTB	Cataby	1.0135	0.9971	0.9804
WCTE	Cottesloe	1.0526	1.0327	1.0136
WCUN	Cunderdin	1.0891	1.0859	1.0656
WCVE	Canning Vale	1.0352	1.0225	1.0042
WDTN	Darlington	1.0435	1.0312	1.0119
WDUR	Durlacher	1.0018	0.9873	0.9695
WEDD	Edmund Street	1.0551	1.0307	1.0122
WEDG	Edgewater	1.0409	1.0284	1.0089
WEMD	Emu Downs	0.9836	0.9709	0.9529
WENB	Eneabba	1.0433	1.0128	0.9925
WFFD	Forrestfield	1.0391	1.0288	1.0106
WGGV	Golden Grove	1.0476	1.0339	1.0167
WGNI	Glen Iris	1.0305	1.0196	1.0002
WGNL	Gosnells	1.0390	1.0244	1.0050
WGNN	Newgen Neerabup	1.0418	1.0240	0.9994
WGTN	Geraldton	1.0018	0.9873	0.9695
WHAY	Hay Street	1.0429	1.0316	1.0138
WHBK	Henley Brook	1.0468	1.0309	1.0097
WHFS	Hadfields	1.0429	1.0304	1.0111
WHZM	Hazelmere	1.0367	1.0254	1.0066

TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until the New WEM Commencement Day	To apply from the New WEM Commencement Day
WJDP	Joondalup	1.0413	1.0272	1.0071
WJTE	Joel Terrace	1.0458	1.0312	1.0134
WKAT	Katanning	1.0613	1.0589	1.0369
WKDA	Kalamunda	1.0445	1.0323	1.0126
WKDL	Kewdale	1.0355	1.0240	1.0063
WKDN	Kondinin	1.0248	1.0402	1.0183
WKBS	Kwinana Battery Energy Storage System	1.0427	1.0116	0.9918
WKDP	Kwinana Desalination Plant	1.0413	1.0129	0.9961
WKEL	Kellerberrin	1.0508	1.0751	1.0521
WKEM	Kemerton PWS	1.0140	1.0056	0.9829
WKMC	Cataby Kerr McGee	1.0144	0.9977	0.9813
WKMK	Kerr McGee Kwinana	1.0419	1.0137	0.9952
WKMM	Muchea Kerr McGee	1.0333	1.0177	1.0005
WKND	Kwinana Donaldson Road (Western Energy)	1.0374	1.0203	0.9952
WKOJ	Kojonup	1.0332	1.0315	1.0098
WKPS	Kwinana PWS	1.0427	1.0116	0.9918
WLDE	Landsdale	1.0449	1.0304	1.0100
WMAG	Manning Street	1.0452	1.0318	1.0120
WMBR	Mt Barker	1.0763	1.0701	1.0476
WMCR	Medical Centre	1.0504	1.0357	1.0174
WMDN	Maddington	1.0369	1.0235	1.0046
WMDY	Munday	1.0380	1.0282	1.0104
WMED	Medina	1.0484	1.0205	1.0015
WMER	Merredin	1.0354	1.0560	1.0337
WMGA	Mungarra GTs	0.9998	0.9306	0.9143
WMHA	Mandurah	1.0533	1.0200	1.0000
WMIL	Milligan Street	1.0398	1.0283	1.0102
WMJP	Manjimup	1.0244	1.0266	1.0047

TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until the New WEM Commencement Day	To apply from the New WEM Commencement Day
WMJX	Midland Junction	1.0373	1.0260	1.0068
WMLG	Malaga	1.0387	1.0264	1.0077
WMOR	Moora	1.0368	1.0204	1.0020
WMOY	Morley	1.0439	1.0310	1.0114
WMPS	Muja PWS	1.0000	1.0000	0.9742
WMRR	Marriot Road	1.0145	1.0132	0.9938
WMRV	Margaret River	1.1264	1.0826	1.0611
WMSF	Merredin Solar Farm	0.9969	1.0170	0.9958
WMSR	Mason Road	1.0409	1.0142	0.9977
WMSS	Meadow Springs	1.0520	1.0207	1.0003
WMUC	Muchea	1.0358	1.0199	1.0008
WMUL	Mullaloo	1.0421	1.0282	1.0092
WMUR	Murdoch	1.0306	1.0217	1.0037
WMYR	Myaree	1.0648	1.0378	1.0185
WNBH	North Beach	1.0461	1.0316	1.0116
WNGK	NewGen Kwinana	1.0282	1.0199	0.9979
WNGN	Narrogin	1.0181	1.0267	1.0050
WNOR	Northam	1.0603	1.0535	1.0333
WNOW	Nowgerup	1.0330	1.0198	1.0026
WNPH	North Perth	1.0466	1.0337	1.0145
WOCN	O'Connor	1.0629	1.0366	1.0173
WOPK	Osborne Park	1.0411	1.0294	1.0108
WPBY	Padbury	1.0464	1.0317	1.0114
WPCY	Piccadilly	1.1379	1.1831	1.1581
WPIC	Picton	1.0132	1.0130	0.9928
WPJR	Pinjar	1.0323	1.0159	0.9952
WPKS	Parkeston	1.1245	1.1700	1.1453
WPLD	Parklands	1.0443	1.0154	0.9972
WPNJ	Pinjarra	1.0381	1.0089	0.9904

TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until the New WEM Commencement Day	To apply from the New WEM Commencement Day
WRAN	Rangeway	1.0046	0.9884	0.9701
WRGN	Regans	1.0266	1.0068	0.9889
WROH	Rockingham	1.0494	1.0208	1.0021
WRTN	Riverton	1.0352	1.0243	1.0049
WRVE	Rivervale	1.0371	1.0254	1.0071
WSFT	South Fremantle	1.0596	1.0381	1.0190
WSNR	Southern River	1.0412	1.0243	1.0046
WSNX	Southern Cross	1.0829	1.1001	1.0768
WSPK	Shenton Park	1.0486	1.0329	1.0140
WSRD	Sutherland	1.0462	1.0344	1.0150
WSUM	Summer St	1.0442	1.0322	1.0138
WSVY	Sawyers Valley	1.0463	1.0360	1.0169
WTLA	Tianqi Lithium	1.0443	1.0145	0.9980
WTSG	Three Springs	1.0162	1.0030	0.9831
WTTS	Tate Street	1.0366	1.0426	1.0100
WWAG	Wagin	1.0678	1.0644	1.0421
WWAI	Waikiki	1.0564	1.0245	1.0044
WWCL	Western Collieries	0.9937	0.9924	0.9712
WWDN	Wembley Downs	1.0554	1.0375	1.0176
WWDW	Warradarge Wind Farm	1.0009	0.9924	0.9731
WWEL	Welshpool	1.0363	1.0243	1.0060
WWGA	Wangara	1.0414	1.0283	1.0095
WWGP	Wagerup	1.0070	0.9838	0.9644
WWKT	West Kalgoorlie	1.1403	1.1771	1.1529
WWLN	Willetton	1.0358	1.0221	1.0033
WWMG	Western Mining	1.0437	1.0206	1.0015
WWNO	Wanneroo	1.0378	1.0224	1.0031
WWNT	Wellington Street	1.0451	1.0343	1.0155
WWSD	Westralian Sands	1.0309	1.0417	1.0204

TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until the New WEM Commencement Day	To apply from the New WEM Commencement Day
WWUN	Wundowie	1.0661	1.0573	1.0381
WWWF	Walkaway Windfarm	0.9184	0.9122	0.8940
WYCP	Yanchep	1.0394	1.0228	1.0030
WYDW	Yandin Wind Farm	1.0102	0.9997	0.9801
WYER	Yerbillon	1.0964	1.1047	1.0832
WYKE	Yokine	1.0446	1.0309	1.0110
WYLN	Yilgarn	1.0701	1.0911	1.0689

## 5. Average Distribution Loss Factors

Western Power has calculated the following average distribution loss factors (DLF) for the 2023/24 financial year based on the Market Procedure:

**Table 5.1 - Average Distribution Loss Factors**

Customer Segment	Applicable Reference Services	DLF Code	Applied in 2022/23	To apply in 2023/24
Residential	A1 - Anytime Energy (Residential)	QRT1	1.0655	1.0797
	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			
	A18 – Super Off-peak Energy (Residential) Exit Service			
	C16 – Super Off-peak Energy (Residential) Exit Service			
	A20 – Super Off-peak Demand (Residential) Exit Service			
	C18 – Super Off-peak Demand (Residential) Bi-directional Service			
Small Business	A2 - Anytime Energy (Business)	QRT2	1.0474	1.0496
	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			
	A19 – Super Off-peak Energy (Business) Exit Service			

	C17 – Super Off-peak Energy (Business) Bi-directional Service			
	A21 – Super Off-peak Demand (Business) Exit Service			
	C19 – Super Off-peak Demand (Business) Bi-directional Service			
Medium Business High Voltage	A5 - High Voltage Metered Demand	QRT5	1.0192	1.0180
	C5 - High Voltage Metered Demand Bi-Directional			
	A23 – High Voltage Electric Vehicle Charging Exit Service			
	C21 – High Voltage Electric Vehicle Charging Bi-directional Service			
	C24 – HV Distribution Storage Bidirectional Service			
Medium Business Low Voltage	A6 - Low Voltage Metered Demand	QRT6	1.0416	1.0401
	C6 - Low Voltage Metered Demand Bi-Directional			
	A22 – Low Voltage Electric Vehicle Charging Exit Service			
	C20 – Low Voltage Electric Vehicle Charging Bi-directional Service			
	C23 – LV Distribution Storage Bidirectional Service			
Zone Substation Connected	A7 - High Voltage Contract Maximum Demand (Zone Substation Connected)	QZSC	1.0055	1.0055
	Zone Substation Connections			
Transmission Connected (No DLF)		QNLF	1.0000	1.0000
Notional Wholesale Meter		QNWM	1.0651	1.0828
Distribution System Wide Average Loss Factor		QAVG	1.0510	1.0586



## 6. Individual Distribution Loss Factors

Western Power has calculated the following individual distribution loss factors for the 2023/24 financial year.

**Table 6.1 - Individual Distribution Loss Factors**

DLF Code	Description	Applied in 2022/23	To apply in 2023/24
QAAL	AIR LIQUIDE AUSTRALIA LIMITED	1.0100	1.0085
QAHU	Oahu Management Pty Ltd c/- Hawaiian Pty Ltd	1.0093	1.0257
QALL	Albemarle Lithium Pty Ltd	1.0105	1.0083
QALM	ALBEMARLE LITHIUM PTY LTD	1.0070	1.0057
QALP	ALBEMARLE LITHIUM PTY LTD	1.0069	1.0057
QAMP	The Trustee for Dragon Property Trust		1.0094
QANF	Anderson Wind Farm	1.0204	1.0152
QAPE	ALBANY PLANTATION EXPORT CO PTY LTD		1.0244
QAPI	Australasian Property Investments Ltd t/as Floreat Forum Syndicate UT	1.0144	1.0157
QARG	Paddington Gold Mine	1.0120	1.0179
QAWF	ALBANY WIND FARM	0.9757	0.9736
QBBM	Barrett Burston Malting Co. Pty. Ltd.	1.0055	1.0055
QBBW	BREMER BAY WIND FARM	1.2904	1.3123
QBCB	Bunbury Centrepoint Shopping Centre Investment Trust	1.0084	1.0091
QBFB	Blair Fox Pty Ltd	1.0040	1.0040
QBGM	BGM MANAGEMENT COMPANY PTY LTD	1.0347	1.0309
QBGP	BGC (AUSTRALIA) PTY LTD	1.0064	1.0062
QBGQ	BGC (AUSTRALIA) PTY LTD	1.0737	1.0729
QBKR	Bradken Resources Pty Ltd	1.0089	1.0089
QBLB	BRICKWORKS BUILDING PRODUCTS PTY LTD	1.0086	1.0088
QBMA	BARTO GOLD MINING PTY LTD	1.0897	1.0896
QBNB	BGC (AUSTRALIA) PTY LTD	1.0166	1.0166
QBOC	BOC Limited	1.0056	1.0068
QBPA	Southern Ports Authority	1.0080	1.0082
QBRR	Bradken Resources Pty Limited	1.0098	1.0103
QBTF	Investa Nominees (2) Pty Ltd and Commonwealth Superannuation Corporation	1.0058	1.0058

DLF Code	Description	Applied in 2022/23	To apply in 2023/24
QBUL	CO OPERATIVE BULK HANDLING LTD	1.0365	1.0365
QBUR	Burswood Nominees Limited as Trustee for the Burswood Property Trust	1.0080	1.0076
QBUS	Burswood Nominees Limited as Trustee for the Burswood Property Trust	1.0073	1.0071
QCAS	Castelli nominees Pty Ltd	1.0315	1.0250
QCBC	COCKBURN CEMENT LIMITED	1.1095	1.1292
QCBH	CO OPERATIVE BULK HANDLING LTD	1.0722	1.0721
QCEB	IKEA Pty Ltd		1.0100
QCEM	COCKBURN CEMENT LIMITED	1.0078	1.0078
QCEN	Scentre Shopping Centre Management (WA) Pty Ltd as agent for & on behalf of entities in Sched 1	1.0099	1.0134
QCHH	CHARTER HALL HOLDINGS PTY. LIMITED		1.0099
QCHS	WA Country Health Service		1.0290
QCMA	Tronox Mining Australia Limited	1.0249	1.0242
QCPC	CALARDU PERTH CITY WEST PTY LTD & GERALD	1.0082	1.0095
QCPU	CBUS PROPERTY 140 WILLIAM STREET PTY LTD	1.0082	1.0078
QCSI	CSIRO - Pawsey Centre		1.0085
QCSK	CSIRO KENSINGTON	1.0146	1.0146
QCSW	Tronox Mining Australia Limited	1.0112	1.0101
QCTE	A RICHARDS PTY LTD	1.0094	1.0094
QCUR	CURTIN UNIVERSITY B156 - ZONE 2	1.0060	1.0063
QCUT	MushroomExchange Pty Ltd	1.0086	1.0087
QDAG	DOD - ADSCS GERALDTON		1.0656
QDCS	Casuarina Prison		1.0089
QDER	DEPT OF ENVIRONMENT REGULATION	1.0184	1.0213
QDFM	Dexus Property Services Pty Limited	1.0089	1.0088
QDOD	DOD - HMAS STIRLING 1	1.0078	1.0306
QDOR	D'ORSOGNA LIMITED	1.0076	1.0069
QDSX	Dexus Property Services Pty Limited	1.0094	1.0056
QDVC	DAVID JONES PTY LTD	1.0061	1.0091
QDWF	DENMARK COMMUNITY WINDFARM LTD	1.1801	1.2004
QDXE	Dexus Property Services Pty Limited	1.0116	1.0057

DLF Code	Description	Applied in 2022/23	To apply in 2023/24
QEAP	Equinix Australia Pty Limited Equinix Australia Pty Ltd - Shenton Park	1.0096	1.0095
QEMM	EKJV MANAGEMENT PTY LTD		1.0334
QEMO	Edna May Operations Pty Ltd Edna May Gold Mine	1.0679	1.0762
QEPP	Enviro Pipes Pty Ltd	1.0103	1.0102
QEPH	Enviro Pipes Pty Ltd	1.0056	1.0056
QERD	EVERGREEN REALTY PTY LTD	1.0064	1.0080
QESC	Vicinity Centres PM Pty Ltd	1.0091	1.0085
QFER	FAR EAST RIVERSIDE (PERTH) PTY LTD	1.0084	1.0089
QFFM	WESTERN AREAS LTD	1.1046	1.1040
QFIE	Benale Pty Limited	1.0895	1.0984
QFLM	LA MANCHA RESOURCES AUST PTY LTD	1.0450	1.0451
QFMR	FMR INVESTMENTS PTY LTD		1.0056
QFRO	Fero Group Pty Ltd	1.0137	1.0125
QFUJ	Fujitsu Australia Limited	1.0059	1.0057
QFUR	FURMANITE AUSTRALIA PTY LTD	1.0351	1.0298
QGDI	GDI No.44 Pty Ltd AFT GDI No.44 Trust	1.0081	1.0081
QGGP	GMA Garnet Pty Ltd		1.1187
QGLG	DEPT OF LOCAL GOVT SPORT & CULTURAL	1.0160	1.0060
QGMC	Derby Meat Processing Co Pty Ltd	1.0055	1.0055
QGPP	Giuliana Properties Pty Ltd		1.0056
QGRA	Grand Hotel Management Pty Ltd	1.0117	1.0099
QGRI	Griffin Coal (The Griffin Coal Mining Company Pty Ltd)	1.0511	1.0500
QGTS	Vicinity Centres PM Pty Ltd Maddington Central	1.0116	1.0116
QGWF	George Weston Foods Limited - Canning Vale	1.0069	1.0082
QHAP	Hanson Australia Pty Ltd		1.0163
QHFM	Lactalis Australia Pty Ltd	1.0416	1.0434
QHGM	BARTO GOLD MINING PTY LTD	1.0261	1.0272
QHHC	Vicinity Centres PM Pty Ltd Halls Head Central	1.0065	1.0065
QHLG	WASTE GAS RESOURCES PTY LTD	1.0053	1.0042
QHMP	FMR INVESTMENTS PTY LTD	1.0765	1.0705

DLF Code	Description	Applied in 2022/23	To apply in 2023/24
QHPH	Hollywood Private Hospital		1.0065
QHPL	Hanson Australia Pty Ltd		1.0140
QHVI	HARVEY INDUSTRIES GROUP PTY LTD	1.0808	1.0813
QIAP	Doral Mineral Sands Pty Ltd		1.0269
QIEW	INGHAMS ENTERPRISES PTY LTD	1.0101	1.0088
QIRL	ILUKA RESOURCES LTD	1.0259	1.0235
QIRN	Image Resources NL	1.0823	1.0865
QISH	ISPT PTY LTD		1.0134
QISM	ISPT Pty Ltd		1.0076
QISP	ISPT Pty Ltd		1.0063
QISU	ISPT PTY LTD		1.0088
QJAN	JANDAKOT AIRPORT HOLDINGS	1.0181	1.0173
QJHP	Joondalup Hospital Pty Limited		1.0068
QJOE	BOORTMALT ASIA PACIFIC PTY LTD	1.0094	1.0094
QKBG	NORTHERN STAR (KANOWNA) LIMITED	1.1219	1.1357
QKEM	KEMERTON SILICA SAND PTY LTD	1.0135	1.0136
QKEY	Keysbrook Leucoxene Ptd Ltd	1.0210	1.0241
QKUD	NORTHERN STAR (HBJ) PTY LTD	1.0102	1.0073
QKWF	VERVE ENERGY	1.0935	1.1173
QLES	Lendlease Property Management	1.0099	1.0109
QLGA	LANDFILL GAS & POWER PTY LTD	0.9978	1.0211
QLGC	LANDFILL GAS & POWER PTY LTD	1.0122	1.0156
QLGD	LANDFILL GAS & POWER PTY LTD	1.0054	1.0054
QLGE	Legion Energy Pty Ltd as the trustee	1.0094	1.0079
QLHT	Hawaiian Investments Pty Ltd c/- Hawaiian Pty Ltd	1.0090	1.0092
QLJS	LENLEASE PROPERTY MANAGEMENT	1.0072	1.0095
QLMR	Evolution Mining (Mungarri) Pty Ltd	1.1139	1.0711
QLPG	FAR EAST HARBOUR TOWN PTY LTD	1.0128	1.0124
QLPM	Giuliana Properties Pty Ltd	1.0097	1.0110
QLSP	PRIMEWEST MANAGEMENT LTD	1.0355	1.0111

DLF Code	Description	Applied in 2022/23	To apply in 2023/24
QMBW	Mt Barker Power Company	1.0572	1.0572
QMFA	Macco Feeds Australia Macco Feeds		1.0397
QMGS	Vicinity Centres PM Pty Ltd Midland Gate Shopping Centre	1.0073	1.0076
QMHP	TRUSTEE FOR WATERFORDS PROPERTY TRUST	1.0095	1.0088
QMIC	Tronox Pigment Bunbury Ltd	1.0061	1.0061
QMID	BGC (AUSTRALIA) PTY LTD	1.0181	1.0142
QMIE	BGC (AUSTRALIA) PTY LTD	1.0167	1.0168
QMIL	MILNE AGRIGROUP PTY LTD	1.0079	1.0129
QMIR	MIRVAC REAL ESTATE PTY LTD	1.0064	1.0061
QMPPM	Metro Power Company Pty Ltd	1.0325	1.0421
QMRS	Murdoch Retirement Services Pty Ltd		1.0083
QMRY	Murdoch University	1.0063	1.0088
QNDC	NEXTDC LIMITED	1.0086	1.0100
QNEW	NEWMONT POWER PTY LTD	1.0873	1.0854
QNGF	Norton Gold Fields Pty Ltd	1.0189	1.0153
QNHP	Narrogin Hay Pty Ltd		1.0253
QNXD	NextDC Limited	1.0069	1.0078
QPAG	Norton Gold Fields Pty Ltd	1.0762	1.0938
QPAN	The Trustee for Success Venture WA Unit Trust	1.0087	1.0119
QPEA	LMS Energy Pty Ltd	1.0240	1.0038
QPFB	LMS Energy Pty Ltd	1.0130	1.0087
QPER	Perpetual Trustee Company Limited	1.0105	1.0155
QPMP	IVE Group Australia Pty Ltd	1.0119	1.0146
QPNK	POSEIDON NICKEL LIMITED	1.0057	1.0056
QPTA	Public Transport Authority of Western Australia	1.0107	1.0128
QPTD	Public Transport Authority of Western Australia	1.0103	1.0068
QPWQ	PWQ Pty Ltd ATF Quadrant Sub Trust	1.0082	1.0078
QQOA	Quaker Oats Australia Pty Ltd		1.0068
QRCS	Vicinity Centres PM Pty Ltd	1.0078	1.0101
QRPH	East Metropolitan Health Service	1.0108	1.0108

DLF Code	Description	Applied in 2022/23	To apply in 2023/24
QRRA	DOD - RAAF PEARCE	1.0338	1.0758
QSAD	Scentre Shopping Centre Management (WA) Pty Ltd as agent for & on behalf of entities in Sched 1	1.0154	1.0058
QSAP	W A SPECIALTY ALLOYS PTY LTD	1.0067	1.0068
QSER	SERCO AUSTRALIA PTY LIMITED	1.0679	1.0664
QSGJ	ST JOHN OF GOD HEALTH CARE MIDLAND	1.0124	1.0124
QSIT	SUEZ RECYCLING & RECOVERY PTY LTD	1.0142	1.0143
QSJG	St John Of God Health Care Inc	1.0160	1.0168
QSIM	ST JOHN OF GOD HEALTH CARE INCORPORATED	1.0077	1.0056
QSJO	St John Of God Health Care Inc	1.0108	1.0140
QSMH	South Metropolitan Health Service	1.0107	1.0056
QSMP	ST MARTINS PROPERTIES AUSTRALIA	1.0066	1.0068
QSMR	Southern Metropolitan Regional Council	1.0056	1.0056
QSPB	SPB (Aust) Pty Ltd & QIC CM Pty Ltd c/- Hawaiian Pty Ltd	1.0066	1.0101
QSPO	Downer EDI Services Pty Ltd	1.0081	1.0072
QSPP	BOOKITJA PTY LTD & IBA NORTHAM SOLAR PTY LTD & NORTHAM SOLAR FARM A PTY LTD	0.9950	0.9921
QSPS	Stockland Property Management Pty Ltd	1.0076	1.0077
QSPT	Ensign Services (Aust) Pty Ltd	1.0078	1.0078
QSPW	Stockland Property Management Pty Ltd	1.0114	1.0119
QTAL	Talison Lithium Australia Pty Ltd	1.0559	1.0672
QTCG	TESLA GERALDTON PTY LTD	1.0020	1.0063
QTCK	TESLA KEMERTON PTY LTD	1.0049	1.0041
QTCN	TESLA NORTHAM PTY LTD	0.9891	0.9823
QTES	Tesla Corporation Management Pty Ltd	1.0125	1.0093
QTIF	Legion Energy Pty Ltd as the trustee	1.0143	1.0120
QTMA	Tronox Pigment Bunbury Ltd	1.0055	1.0055
QTSS	Thornlie Square Shopping Centre Pty Ltd Thornlie Square Shopping Centre NMI-8001003492		1.0152
QVIC	Vicinity Centres PM Pty Ltd Mandurah Forum	1.0097	1.0092
QVID	Vicinity Centres PM Pty Ltd Warwick Grove	1.0184	1.0152
QVNW	VenuesWest (AEG Ogden, Perth Arena)		1.0055

DLF Code	Description	Applied in 2022/23	To apply in 2023/24
QVVM	THE TRUSTEE FOR V&V UNIT TRUST & VERNON	1.0111	1.0096
QWAC	Perth Airport Pty Ltd	1.0074	1.0093
QWAN	WESTERN AREAS LTD	1.0889	1.0886
QWBE	Wesbeam Pty Ltd	1.0136	1.0125
QWCB	WATER CORPORATION	1.0090	1.0090
QWCE	WATER CORPORATION	1.0063	1.0063
QWCG	WATER CORPORATION	1.0368	1.0368
QWCI	WATER CORPORATION		1.0139
QWCJ	WATER CORPORATION	1.0066	1.0066
QWCK	WATER CORPORATION	1.0097	1.0091
QWCL	WATER CORPORATION	1.0094	1.0093
QWCM	WATER CORPORATION	1.0132	1.0131
QWCO	WATER CORPORATION	1.0392	1.0390
QWCP	WATER CORPORATION		1.0153
QWCQ	WATER CORPORATION		1.0091
QWCR	WATER CORPORATION		1.0146
QWCT	WATER CORPORATION		1.0142
QWCU	WATER CORPORATION		1.0982
QWCW	WATER CORPORATION	1.0305	1.0336
QWCX	WATER CORPORATION	1.0094	1.0080
QWCY	Water Corporation		1.0140
QWCZ	Water Corporation	1.0094	1.0082
QWDB	WATER CORPORATION	1.0099	1.0105
QWDE	Water Corporation	1.0058	1.0058
QWFL	WLPG Pty Ltd		1.0085
QWGS	Vicinity Centres PM Pty Ltd Galleria site 1	1.0109	1.0122
QWHF	West Hills Farm P/L	1.0360	1.0578
QWLD	Main Camp WA Pty Ltd	1.2478	1.3682
QWMD	Fletcher Building (Australia) Pty Ltd	1.0434	1.0468

## 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

**Table 7.1** is a list of the transmission loss factors that moved by more than 0.025 in 2023/24. 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. More specific reasons for the movements are difficult to determine.

**Table 7.1 - Transmission Loss Factors changed by more than 0.025**

TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until commencement of new Market	Change
TAPA	Alcoa Pinjarra (Alcoa)	1.0223	0.9829	-0.0394
TAPL	Alcoa Pinjarra (Alinta)	1.0230	0.9782	-0.0448
TBLS	Boulder (SCE)	1.1022	1.1740	0.0718
TMDP	Merredin Power Station	0.8750	0.9630	0.0880
TWKG	West Kalgoorlie GTs	1.0948	1.0414	-0.0534
WAFM	Australian Fused Materials	1.0442	1.0109	-0.0333
WAKW	Kwinana Alcoa	1.0418	1.0143	-0.0275
WAPM	Australian Paper Mills	1.0582	1.0331	-0.0251
WBHK	Broken Hill Kwinana	1.0419	1.0154	-0.0265
WBIB	Bibra Lake	1.0524	1.0256	-0.0268
WBKF	Black Flag	1.1625	1.1978	0.0353
WBLD	Boulder	1.1439	1.1830	0.0391
WBPM	British Petroleum	1.0437	1.0085	-0.0352
WCBP	Mason Road CSBP	1.0421	1.0170	-0.0251
WCGW	Collgar Windfarm	0.9537	0.9923	0.0386
WENB	Eneabba	1.0433	1.0128	-0.0305



TLF Code	Description	Applied in 2022/23	To apply from 1 July 2023 until commencement of new Market	Change
WKBS	Kwinana Battery Energy Storage System	1.0427	1.0116	-0.0311
WKDP	Kwinana Desalination Plant	1.0413	1.0129	-0.0284
WKMK	Kerr McGee Kwinana	1.0419	1.0137	-0.0282
WKPS	Kwinana PWS	1.0427	1.0116	-0.0311
WMED	Medina	1.0484	1.0205	-0.0279
WMGA	Mungarra GTs	0.9998	0.9306	-0.0692
WMHA	Mandurah	1.0533	1.0200	-0.0333
WMRV	Margaret River	1.1264	1.0826	-0.0438
WMSR	Mason Road	1.0409	1.0142	-0.0267
WMSS	Meadow Springs	1.0520	1.0207	-0.0313
WMYR	Myaree	1.0648	1.0378	-0.0270
WOCN	O'Connor	1.0629	1.0366	-0.0263
WPCY	Piccadilly	1.1379	1.1831	0.0452
WPKS	Parkeston	1.1245	1.1700	0.0455
WPLD	Parklands	1.0443	1.0154	-0.0289
WPNJ	Pinjarra	1.0381	1.0089	-0.0292
WROH	Rockingham	1.0494	1.0208	-0.0286
WTLA	Tianqi Lithium	1.0443	1.0145	-0.0298
WWAI	Waikiki	1.0564	1.0245	-0.0319
WWKT	West Kalgoorlie	1.1403	1.1771	0.0368

## 7.2 Individual distribution loss factors

Table 7.2 is a list of the distribution loss factors that moved by more than 0.025 in 2022/23.

**Table 7.2: Distribution Loss Factor changed by more than 0.025**

DLF	Customer	DLF variance	Explanation
QLMR	Evolution Mining (Mungari) Pty Ltd	-0.0428	Customer usage reduced during peak period compared to last year with a similar peak.

DLF	Customer	DLF variance	Explanation
QRRR	DOD - RAAF PEARCE	0.0420	Feeder peak reduced with similar customer usage.
QWLD	Main Camp WA Pty Ltd	0.1204	Customer changed from CMD/Exit to DSOC/Entry designation.

# 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 7.3 - Transmission Loss Factors by NMI**

NMI	TLF Code
8001001211	WWWF
8001001212	WWWF
8001018932	TAPL
8001019590	TOLA
8001019784	TLWA
8001019785	TLWA
8002016652	WBWF
8002016403	WCGW
8002016404	WCGW
8001019484	WEMD
8001019485	WEMD
8002013796	TBLB
8002013337	TBLB
8002016510	TMDP
8002013343	WNGK
8002015326	WGNN
8002016666	WMSF
8002013379	WKMK
8002016668	WWDW
8002016124	WKND
8001018020	WKEM
8001018021	WKEM
8002013364	WMPS
8002013365	WKPS
8002013366	WCPS
8002013368	WPJR
8002013369	WKPS

NMI	TLF Code
8002013371	TWKG
8002013372	WMGA
8002016504	WKPS
8002016505	WKPS
8002016665	WYDW
8002016506	TMGS
8002016519	TMBA
8002016696	WKBS
8002016697	WKBS
8002016415	WBSI
8002016416	WBSI
8001000109	WMSR
8001000732	TAPA
8001000733	WAKW
8001000954	TAPA
8001001007	WWGP
8001000640	WWCL
8001000641	WWCL
8001000291	WAFM
8001016070	WBEC
8002016571	WNOW
8001019790	WPLD
8001000347	WEDG
8002016585	WSRD
8001019791	WGNI
8001000764	WSUM
8001000616	WKMM
8001000659	WKMC
8001000776	WWSD
8001000646	WGGV
8001019487	WKDP
8002013375	WBGM

NMI	TLF Code
8002016491	TKRA
8001000279	WPKS
8001000116	WBHK
8001000129	WCCL
8002016417	WBSI
8001000126	WWMG
8001000127	WWMG
8001000128	WWMG
8002016672	WWMG
8001000741	TBLS
8001000118	WKMK
8002112635	WBDP
8001000736	WCBP
8001000744	TWOJ
8001000743	TWOW
8001019478	TWOW
8002016407	TWOW
8002016671	WWMG
8002014313	WPKS

# Appendix B

## Individual Distribution Loss Factors by NMI

## B.1 Individual Distribution loss factors by NMI

The individual distribution loss factors calculated for the 2022/23 financial year are associated with the following NMIs.

**Table 7.4 - Individual Distribution Loss Factors by NMI**

NMI	DLF Code	Required or Optional <sup>3</sup>
8001000107	QCSW	Optional
8001000121	QTAL	Required
8001000122	QPEB	Required
8001000125	QKEM	Required
8001000130	QCEM	Required
8001000158	QLGA	Required
8001000234	QLGD	Required
8001000259	QWDB	Optional
8001000261	QWCQ	Optional
8001000265	QGWF	Optional
8001000269	QKUD	Required
8001000270	QMID	Optional
8001000274	QBGP	Optional
8001000280	QWCB	Optional
8001000282	QWCE	Optional
8001000284	QWCW	Required
8001000286	QAAL	Optional
8001000287	QFFM	Required
8001000298	QSAP	Optional
8001000325	QWMD	Required
8001000329	QBPA	Required
8001000332	QWCP	Optional
8001000333	QDOD	Optional
8001000345	QHVI	Required

<sup>3</sup> 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 <sup>3</sup>
8001000357	QWCO	Required
8001000359	QHGM	Required
8001000373	QHAP	Required
8001000379	QDAG	Required
8001000394	QSJM	Optional
8001000414	QBKR	Optional
8001000419	QBRR	Optional
8001000428	QCBC	Required
8001000433	QGGP	Required
8001000451	QHMP	Required
8001000453	QAPE	Required
8001000463	QCUT	Optional
8001000493	QARG	Required
8001000494	QDOR	Optional
8001000506	QSMH	Optional
8001000507	QSMH	Optional
8001000514	QMIE	Optional
8001000515	QMIE	Optional
8001000516	QMRY	Optional
8001000517	QMRY	Optional
8001000519	QSMP	Optional
8001000520	QSMP	Optional
8001000527	QWCT	Optional
8001000528	QWCT	Optional
8001000533	QWAC	Optional
8001000534	QWAC	Optional
8001000535	QVIC	Optional
8001000536	QVIC	Optional
8001000539	QFIE	Required
8001000548	QAMP	Optional
8001000549	QAMP	Optional
8001000559	QPWQ	Optional

NMI	DLF Code	Required or Optional <sup>3</sup>
8001000560	QPWQ	Optional
8001000561	QDVC	Optional
8001000562	QDVC	Optional
8001000563	QFER	Optional
8001000564	QFER	Optional
8001000565	QMIR	Optional
8001000566	QMIR	Optional
8001000573	QPER	Optional
8001000574	QPER	Optional
8001000578	QGDI	Optional
8001000579	QERD	Optional
8001000580	QERD	Optional
8001000589	QDFM	Optional
8001000590	QDFM	Optional
8001000591	QSPO	Optional
8001000592	QSPO	Optional
8001000598	QCPC	Optional
8001000599	QCPC	Optional
8001000623	QWCK	Optional
8001000624	QWCK	Optional
8001000650	QWBE	Optional
8001000651	QWBE	Optional
8001000652	QBUR	Optional
8001000653	QBUR	Optional
8001000665	QRPH	Optional
8001000666	QRPH	Optional
8001000667	QLJS	Optional
8001000668	QLJS	Optional
8001000669	QKUD	Required
8001000670	QKUD	Required
8001000675	QVID	Optional
8001000677	QWGS	Optional

NMI	DLF Code	Required or Optional <sup>3</sup>
8001000678	QWGS	Optional
8001000679	QBCB	Optional
8001000680	QBCB	Optional
8001000681	QMGS	Optional
8001000682	QMGS	Optional
8001000687	QRCS	Optional
8001000688	QRCS	Optional
8001000689	QPAN	Optional
8001000690	QPAN	Optional
8001000696	QSAD	Optional
8001000703	QBTF	Optional
8001000704	QBTF	Optional
8001000705	QTMA	Required
8001000706	QMIC	Required
8001000707	QAWF	Required
8001000708	QAWF	Required
8001000713	QAPI	Optional
8001000714	QAPI	Optional
8001000734	QPNK	Required
8001000738	QLGC	Required
8001000745	QPAG	Required
8001000756	QGTS	Optional
8001000766	QGMC	Optional
8001000780	QCBH	Required
8001000789	QSJO	Optional
8001000790	QWCG	Required
8001000791	QBLB	Optional
8001000792	QJOE	Optional
8001000813	QBBM	Optional
8001000824	QKBG	Required
8001000829	QWFL	Optional
8001000860	QSJG	Optional

NMI	DLF Code	Required or Optional <sup>3</sup>
8001000863	QRRRA	Required
8001000875	QPMP	Optional
8001000878	QWAN	Required
8001000916	QPEA	Required
8001000927	QCSK	Optional
8001000998	QNEW	Required
8001001009	QBMA	Required
8001001110	QTIF	Optional
8001001128	QSJG	Optional
8001002178	QLGE	Optional
8001002551	QLHT	Optional
8001002905	QAHU	Optional
8001003155	QCEN	Optional
8001003397	QGLG	Optional
8001003492	QTSS	Optional
8001003787	QBNB	Required
8001005378	QLPG	Optional
8001005622	QWCR	Optional
8001006363	QWCM	Optional
8001006864	QSER	Required
8001007060	QHPL	Required
8001007323	QNHP	Optional
8001007896	QMFA	Required
8001008047	QWCI	Optional
8001008631	QDCS	Required
8001008755	QISU	Optional
8001008927	QGPP	Optional
8001009577	QBUL	Required
8001010090	QPTA	Optional
8001010318	QESC	Optional
8001010350	QQOA	Optional
8001011208	QLSP	Optional

NMI	DLF Code	Required or Optional <sup>3</sup>
8001011500	QJHP	Optional
8001011585	QIEW	Optional
8001011671	QDSX	Optional
8001011818	QWCU	Required
8001012464	QCTE	Required
8001013234	QDXE	Optional
8001014755	QMIL	Optional
8001014850	QSMR	Optional
8001017256	QGRA	Optional
8001017284	QGRI	Required
8001017512	QSPT	Optional
8001019433	QHLG	Required
8001019556	QMHP	Optional
8001020092	QBGM	Required
8001020102	QLPM	Optional
8001259738	QMRS	Optional
8001790061	QCAS	Required
8001993169	QSPW	Optional
8002002527	QCEB	Optional
8002008582	QLES	Optional
8002013336	QKWF	Required
8002013376	QCUR	Required
8002013377	QCUR	Required
8002013378	QCUR	Required
8002013389	QHPH	Optional
8002013390	QHPH	Optional
8002016087	QCPU	Optional
8002016399	QJHP	Optional
8002016406	QWCZ	Required
8002016408	QMBW	Required
8002016420	QTES	Required
8002016499	QWHF	Required

NMI	DLF Code	Required or Optional <sup>3</sup>
8002016507	QTCG	Required
8002016508	QTCK	Required
8002016509	QTCN	Required
8002016529	QDWF	Required
8002016580	QHFM	Required
8002016648	QWCJ	Optional
8002016649	QSPP	Required
8002016650	QMPPM	Required
8002016651	QTAL	Required
8002027039	QISP	Optional
8002027040	QISP	Optional
8002034918	QFLM	Required
8002035499	QJAN	Optional
8002049183	QDER	Required
8002049586	QSPB	Optional
8002051925	QCUR	Required
8002055189	QSIT	Required
8002067264	QBGQ	Required
8002073940	QCPU	Optional
8002081338	QFUJ	Optional
8002085923	QEMO	Required
8002106171	QDOR	Optional
8002106501	QWCX	Required
8002109233	QWCJ	Optional
8002118572	QEPF	Optional
8002119358	QVVM	Optional
8002131831	QEMM	Required
8002140274	QVNW	Optional
8002141398	QJAN	Optional
8002145821	QFMR	Required
8002148204	QANF	Required
8002150804	QCHS	Required

NMI	DLF Code	Required or Optional <sup>3</sup>
8002155359	QCSI	Optional
8002166160	QCMA	Required
8002174244	QSJM	Optional
8002182945	QEAP	Optional
8002183852	QLES	Optional
8002187958	QNXD	Optional
8002191360	QLMR	Required
8002206185	QBOC	Required
8002214497	QSGJ	Optional
8002220353	QWCY	Optional
8002221497	QFUR	Required
8002227231	QAAL	Optional
8002227767	QAAL	Required
8002247735	QKEY	Required
8002250697	QBUS	Optional
8002250698	QBUS	Optional
8002256750	QHHC	Optional
8002256973	QWCL	Optional
8002263036	QSPS	Optional
8002269579	QBFB	Required
8002276877	QISM	Optional
8002279965	QCHH	Required
8002286669	QFRO	Optional
8002288743	QEPH	Optional
8002293690	QPTD	Optional
8002315825	QMGS	Optional
8002316600	QIRN	Required
8002317197	QISH	Optional
8002319360	QIRL	Required
8002324711	QWDE	Optional
8002339364	QNDC	Optional
8002350127	QALL	Required

NMI	DLF Code	Required or Optional <sup>3</sup>
8002350828	QALM	Required
8002350829	QALP	Required
8002355219	QNGF	Required
8002355633	QVVM	Optional
8002359093	QBBW	Required
8002361962	QWLD	Required
8002369988	QIAP	Required



# Appendix C

## Extinct Loss Factor Codes

## C.1 Extinct Loss Factor Codes

The following loss factor codes have not been recalculated for the 2023/24 financial year.

**Table 7.5 – Individual Transmission Loss Factors**

DLF code	Reason for not being calculated
TMSK	Extinct connection
WFRT	Extinct connection

**Table 7.6 - Individual Distribution Loss Factors**

DLF code	Reason for not being calculated
QAWT	Not eligible for consideration
QBBP	Not eligible for consideration
QBWA	Not eligible for consideration
QBWB	Not eligible for consideration
QBWC	Not eligible for consideration
QDOF	Not requested by retailer
QDTO	Not requested by retailer
QDWL	Not requested by retailer
QGLM	Not eligible for consideration
QHEL	Not requested by retailer
QILR	Not requested by retailer
QIRA	Not eligible for consideration
QIRB	Not eligible for consideration
QMEE	Not requested by retailer
QMMP	Not requested by retailer
QMTC	Extinct connection
QPWA	Not eligible for consideration
QTMB	Not eligible for consideration
QTMH	Not eligible for consideration
QVLW	Not requested by retailer
QWAD	Replaced with QZSC

DLF code	Reason for not being calculated
QWMI	Not requested by retailer
QWPL	Not requested by retailer
QWSI	Average value applied
QYTE	Not requested by retailer
QLEH	Not requested by retailer
QR7Z	Merged with QZSC