

Western Power Networks
Price Schedule C2

**Transition Network Tariffs & Prices
for the
South West Interconnected System
2005/2006**

Date of Issue: 20 June 2005
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Important Note:

Only those Customers using more than 8,760 MWh per year prior to July 2001 are eligible for these “special” network tariffs. Customers utilising any tariff in Schedule C1 are automatically ineligible for these “special” network tariffs.

Standard tariffs are contained in the separate publication:

“Price Schedule C1
Standard Network Tariffs & Prices
for the South West Interconnected System
2005/2006”

WESTERN POWER NETWORKS PRICING PUBLICATIONS

- PART A NETWORK REVENUE AND AVERAGE PRICE PATH
- PART B NETWORK PRICING STRUCTURE
- PART C PRICE SCHEDULES
 - C1 STANDARD NETWORK TARIFFS AND PRICES
FOR THE SOUTH WEST INTERCONNECTED NETWORK
2005/2006
 - C2 TRANSITION NETWORK TARIFFS AND PRICES
FOR THE SOUTH WEST INTERCONNECTED NETWORK
2005/2006**
 - C3 STANDARD NETWORK TARIFFS AND PRICES
FOR THE NORTH WEST INTERCONNECTED NETWORK
2003/2004
 - C4 TRANSITION NETWORK TARIFFS AND PRICES
FOR THE NORTH WEST INTERCONNECTED NETWORK
2003/2004
 - C5 NETWORK TARIFFS AND PRICES
FOR REGIONAL NETWORKS
2003/2004
 - C6 MISCELLANEOUS NETWORK PRICES
(FUTURE)
- PART D NETWORK PRICE APPLICATION GUIDE
- PART E SUPPORT SERVICES PRICES
FOR THE SOUTH WEST INTERCONNECTED SYSTEM
2005/2006
(Standby generation, spinning reserve and balancing energy services)

PURPOSE OF THIS DOCUMENT

This document provides *“transition” network access prices* and *network loss factors* for the 2005/2006 financial year for the south-west interconnected Transmission and Distribution networks.

Eligibility for Transition Network Prices

“Transition” network prices are special prices available only to those customers using more than 8,760 MWh per year prior to July 2001. These customers may choose between these transition prices and the standard network access prices (published separately). Once customers have transitioned to the prices in Schedule C1 they are no longer eligible for these transition network prices.

All listed prices are GST **inclusive**.

CONTENTS

Transition Distribution Network Prices

1. Transition Distribution Network Prices

Note: Distribution entry point charges for generators are determined individually by Western Power Networks.

Transition Transmission Nodal Prices

2. Exit Points
3. Entry Points

Other Network Prices

4. Transition Metering Prices
5. Energy Balancing Service Charge
6. Transmission Excess Network Usage Factor
7. Distribution Excess Network Usage Factor
8. Control System Service Price

Loss Factors

9. Distribution Loss Factors
10. Transmission Loss Factors

Ancillary Service Prices

TRANSITION DISTRIBUTION NETWORK PRICES

1. Transition Distribution Network Prices

Eligibility:

This tariff is available to customers with maximum demands of greater than 1.0MW average load, connected to the distribution network at high voltage (6.6 kV or higher).

Note:

An additional excess network usage charge applies where actual peak demand exceeds the nominated CMD.

Demand Prices:

High Voltage Network Charge - Maximum Demand 1000 to 7000 kVA

Pricing Zone	Demand Charge	
	Fixed Charge for first 1000 kVA (\$ per annum)	For kVA >1000 (\$/kVA/annum)
CBD	48,255.90	3.971
Urban	48,255.90	1.716
Mining	48,255.90	12.243
Mixed	48,255.90	9.988
Rural	48,255.90	12.991

High Voltage Network Charge - Maximum Demand > 7000 kVA

Pricing Zone	Demand Charge	
	Fixed Charge for first 7000 kVA (\$ per annum)	For kVA >7000 (\$/kVA/annum)
CBD	72,081.90	0.627
Urban	58,551.90	0.506
Mining	121,713.90	1.067
Mixed	108,183.90	0.957
Rural	126,201.90	1.111

Low Voltage Network Charge

(where applicable, in addition to the High Voltage network Charge)

Category	(\$/annum)
Fixed Price	1,208.11
Demand Price	9.75/kVA

Demand Length Prices:

Maximum Demand 1000 to 7000 kVA

Pricing Zone	Demand-Length Charge	
	For first 10 km length (\$/kVA.km/annum)	For length in excess of 10 km (\$/kVAkm/annum)
CBD	0.00	0.00
Urban	2.244	1.573
Mining	0.968	0.671
Mixed	1.199	0.814
Rural	1.045	0.726

Maximum Demand > 7000 kVA

Pricing Zone	Demand-Length Charge	
	For first 10 km length (\$/kVA.km/annum)	For length in excess of 10 km (\$/kVAkm/annum)
CBD	0.00	0.00
Urban	1.914	1.331
Mining	0.814	0.561
Mixed	1.012	0.715
Rural	0.869	0.616

Metering Price

Separate Metering charges apply – refer to section 4, Transition Metering Charges.

Common Services Price

A separate Administration charge applies as follows:

	\$/annum
Average Load Greater than 5 MW	11,761.90
Average Load Greater than 1 MW and Less than 5 MW	7,056.92

Distribution Loss Factor

Refer to section 9, Distribution Loss Factors.

Excess Network Usage Charges

An additional charge applies where peak demand exceeds the nominated CMD – refer to section 7, Distribution Excess Network Usage Factor.

TRANSITION TRANSMISSION NODAL PRICES

2. Exit Points

Eligibility:

These prices apply to loads connected to either the transmission or distribution network.

Notes:

1. Connection prices for loads connected directly to the transmission network at 66kV or above are not published but are determined subject to the specific connection arrangements.
2. The Connection Price shown in the following table:
 - applies only to loads and generators connected either directly to the transmission network at less than 66kV or to the distribution network; and
 - includes the Control System Services charge (refer to section 8, Control System Services Prices).
3. * Denotes the actual charge is to be determined subject to the specific connection arrangements

Prices:

Substation	Connection Price \$/kW pa (See Notes 1 & 2)	Exit Use of System Price \$/kW pa	Common Service Price \$/kW pa	Total Price \$/kW pa	Transmission HV Loss Factor for Connections with Generation and HV Transmission Connected Loads	Transmission HV Loss Factor for Other Load Connections >1000 kVA (See section 10)
Albany	16.17	64.93	18.45	99.55	1.0380	1.0380
Amherst	22.15	10.57	18.45	51.17	1.0448	1.0507
Arkana	9.65	19.10	18.45	47.20	1.0534	1.0507
Australian Fused Materials	*	11.55	18.45	*	1.0359	1.0507
Australian Paper Mills	15.19	20.93	18.45	54.57	1.0483	1.0507
Baandee	155.39	149.13	18.45	322.97	1.0857	1.0857
Beechboro	8.00	17.38	18.45	43.83	1.0531	1.0507
Beenup	10.15	253.37	18.45	281.97	1.0413	1.0413
Belmont	11.05	15.10	18.45	44.60	1.0504	1.0507
Black Flag	13.11	59.19	18.45	90.75	1.1364	1.1364
Boddington (Local)	184.45	7.96	18.45	210.86	1.0169	1.0169
Boddington Reynolds	26.97	16.52	18.45	61.94	1.0160	1.0160
Boulder	16.97	50.68	18.45	86.10	1.1159	1.1159
Bounty	33.38	80.19	18.45	132.02	1.0891	1.0891
Bridgetown	25.69	30.21	18.45	74.35	1.0236	1.0236

British Petroleum	21.41	29.88	18.45	69.74	1.0335	1.0507
Broken Hill Kwinana	*	34.79	18.45	*	1.0331	1.0507
Bunbury Harbour	16.72	11.46	18.45	46.63	1.0212	1.0212
Burswood Island Casino	*	36.85	18.45	*	1.0514	1.0507
Busselton	19.74	34.76	18.45	72.95	1.0579	1.0579
Byford	16.48	15.00	18.45	49.93	1.0459	1.0507
Canning Vale	11.45	13.95	18.45	43.85	1.0426	1.0507
Capel	38.96	27.61	18.45	85.02	1.0477	1.0477
Carrabin	25.53	203.68	18.45	247.66	1.0965	1.0965
Cataby Kerr McGee	*	7.94	18.45	*	1.0919	1.0919
Chapman	27.17	18.86	18.45	64.48	1.1608	1.1608
Clarence Street	18.55	24.99	18.45	61.99	1.0569	1.0507
Cockburn Cement	16.34	9.35	18.45	44.14	1.0400	1.0507
Cockburn Cement Ltd	*	9.35	18.45	*	1.0396	1.0507
Collie	41.65	39.07	18.45	99.17	1.0169	1.0169
Collier	11.30	27.29	18.45	57.04	1.0565	1.0507
Cook Street	12.56	21.53	18.45	52.54	1.0578	1.0507
Coolup	55.63	55.83	18.45	129.91	1.0574	1.0574
Cottesloe	24.25	20.51	18.45	63.21	1.0613	1.0507
Cunderdin	44.25	55.75	18.45	118.45	1.0965	1.0965
Darlington	35.00	9.84	18.45	63.29	1.0528	1.0507
Edgewater	*	26.41	18.45	*	1.0647	1.0507
Edmund Street	18.20	19.11	18.45	55.76	1.0462	1.0507
Eneabba	28.30	46.61	18.45	93.36	1.0959	1.0959
Forrest Ave	16.25	27.92	18.45	62.62	1.0588	1.0507
Forrestfield	33.33	24.18	18.45	75.96	1.0434	1.0507
Geraldton	8.29	63.01	18.45	89.75	1.1294	1.1294
Golden Grove	*	102.00	18.45	*	1.1517	1.1517
Gosnells	11.27	15.47	18.45	45.19	1.0453	1.0507
Hadfields	13.35	20.98	18.45	52.78	1.0538	1.0507
Hay Street	16.95	20.25	18.45	55.65	1.0570	1.0507
Herdsmen Parade	35.65	26.08	18.45	80.18	1.0601	1.0507
Joel Terrace	16.79	24.54	18.45	59.78	1.0576	1.0507
Kalamunda	16.55	16.25	18.45	51.25	1.0503	1.0507
Katanning	57.02	38.07	18.45	113.54	1.0490	1.0490
Kellerberrin	110.36	127.72	18.45	256.53	1.0912	1.0912
Kojonup	220.55	47.58	18.45	286.58	1.0248	1.0248
Kondinin Local	73.30	13.51	18.45	105.26	1.0575	1.0575
Kwinana Alcoa	*	10.64	18.45	*	1.0302	1.0507
Kwinana Power Partnership	*	12.66	18.45	*	1.0320	1.0507
Landsdale	22.15	17.29	18.45	57.89	1.0569	1.0507
Malaga	22.15	19.10	18.45	59.70	1.0514	1.0507

Mandurah	21.69	12.38	18.45	52.52	1.0428	1.0507
Manjimup	34.58	60.12	18.45	113.15	1.0329	1.0329
Manning Street	22.08	17.55	18.45	58.08	1.0560	1.0507
Margaret River	37.54	33.27	18.45	89.26	1.0872	1.0872
Marriott Road Barrack Silicon	*	12.90	18.45	*	1.0218	1.0218
Marriott Road Local	18.32	13.36	18.45	50.13	1.0205	1.0205
Mason Road (local)	22.15	17.97	18.45	58.57	1.0322	1.0507
Mason Road CSBP	*	13.75	18.45	*	1.0340	1.0507
Mason Road Hismelt	*	4.23	18.45	*	1.0363	1.0507
Mason Road Kerr McGee	*	17.97	18.45	*	1.0319	1.0507
Medical Centre	23.73	26.60	18.45	68.78	1.0591	1.0507
Medina	25.22	13.27	18.45	56.94	1.0411	1.0507
Merredin 66kV	38.78	149.13	18.45	206.36	1.0810	1.0810
Midland Junction	12.03	23.47	18.45	53.95	1.0554	1.0507
Milligan Street	18.62	29.20	18.45	66.27	1.0561	1.0507
Moora	55.28	44.44	18.45	118.17	1.0980	1.0980
Morley	19.91	22.55	18.45	60.91	1.0552	1.0507
Mt Barker	22.15	64.93	18.45	105.53	1.0464	1.0464
Muchea Kerr McGee	*	22.92	18.45	*	1.0588	1.0507
Muchea Local	35.04	5.43	18.45	58.92	1.0602	1.0507
Mullaloo	11.59	17.29	18.45	47.33	1.0601	1.0507
Mundaring Weir	85.39	26.80	18.45	130.64	1.0681	1.0507
Myaree	13.00	24.06	18.45	55.51	1.0513	1.0507
Narrogin	49.86	8.67	18.45	76.98	1.0329	1.0329
Nedlands	25.14	23.73	18.45	67.32	1.0599	1.0507
North Beach	11.78	17.52	18.45	47.75	1.0573	1.0507
North Fremantle	26.23	23.06	18.45	67.74	1.0463	1.0507
North Perth	12.11	25.61	18.45	56.17	1.0556	1.0507
Northam 66kV	18.60	59.48	18.45	96.53	1.0693	1.0693
O'Connor	10.64	17.40	18.45	46.49	1.0499	1.0507
Osborne Park	13.07	23.34	18.45	54.86	1.0566	1.0507
Piccadilly	25.39	37.63	18.45	81.47	1.1226	1.1226
Picton 66	11.70	15.07	18.45	45.22	1.0226	1.0226
Pinjarra	32.54	5.04	18.45	56.03	1.0308	1.0308
Pinjarra ALCOA	*	5.02	18.45	*	1.0155	1.0155
Quinninup	292.94	50.80	18.45	362.19	1.0394	1.0394
Regans	22.15	7.94	18.45	48.54	1.0744	1.0744
Riverton	9.27	12.76	18.45	40.48	1.0408	1.0507
Rivervale	37.42	32.56	18.45	88.43	1.0530	1.0507
Rockingham	10.25	16.39	18.45	45.09	1.0394	1.0507
Sawyers Valley	48.70	33.19	18.45	100.34	1.0741	1.0507
Shenton Park	22.03	22.58	18.45	63.06	1.0580	1.0507

South Fremantle 66kV	42.70	10.57	18.45	71.72	1.0417	1.0507
Southern Cross	74.19	41.44	18.45	134.08	1.1227#	1.1227#
Summer St	*	34.57	18.45	*	1.0565	1.0507
Tate Street	11.35	25.03	18.45	54.83	1.0514	1.0507
Three Springs	75.04	31.19	18.45	124.68	1.1241	1.1241
Tomlinson Street	*	47.06	18.45	*	1.0502	1.0507
University	27.86	26.53	18.45	72.84	1.0597	1.0507
Victoria Park	203.66	25.48	18.45	247.59	1.0512	1.0507
Wagerup	25.41	6.76	18.45	50.62	1.0021	1.0021
Wagin	150.35	112.88	18.45	281.68	1.0540	1.0540
Wanneroo	4.54	17.29	18.45	40.28	1.0617	1.0507
WEB Grating	*	26.24	18.45	*	1.0607	1.0507
Wellington Street	23.98	34.95	18.45	77.38	1.0586	1.0507
Welshpool	8.99	15.18	18.45	42.62	1.0456	1.0507
Wembley Downs	18.23	16.24	18.45	52.92	1.0596	1.0507
West Kalgoorlie	16.31	15.36	18.45	50.12	1.0797	1.0797
Western Collieries	*	7.27	18.45	*	0.9950	0.9950
Western Mining	*	8.44	18.45	*	1.0349	1.0507
Westralian Sands	*	27.56	18.45	*	1.0440	1.0440
Worsley	*	8.70	18.45	*	0.9911	0.9911
Wundowie	41.05	31.35	18.45	90.85	1.0245	1.0245
Yanchep	20.77	11.60	18.45	50.82	1.0598	1.0507
Yerbillon	2,554.38	282.90	18.45	2,855.73	1.0971	1.0971
Yilgarn	45.19	31.75	18.45	95.39	1.0969	1.0969
Yokine	16.54	20.15	18.45	55.14	1.0546	1.0507
Yornup	167.54	36.43	18.45	222.42	1.0473	1.0473

Loss Factor at Southern Cross applies to the 33kV busbar

Metering Charges

Separate Metering charges apply – refer to section 4, Transition Metering Charges.

Transmission Loss Factor

See above table.

Excess Network Usage Charges

An additional charge applies where peak demand exceeds the nominated CMD – refer to section 6, Transmission Excess Network Usage Factor.

3. Entry Points

Eligibility

These prices apply to all generators, connected to either the transmission network or distribution network.

Notes:

1. The Total Connection Charge shown in the following table
 - is used to calculate the connection charge for generators connected to the transmission network at 66kV or greater; and
 - includes the Control System Services charge (refer to section 8, Control System Services Prices).
2. The connection charge for generators connected to either the transmission low voltage network (at less than 66kV) or distribution network uses the Connection Price as shown in section 2, Exit Points.
3. * Denotes the charge is not published but is determined subject to the specific connection arrangements.

Prices:

Substation	Total Connection Charge \$K pa (Refer Notes 1 & 2)	Entry Use of System Price \$/kW pa	Transmission HV Loss Factor
Boulder	*	2.73	1.1159
Collie	*	11.84	0.9990
Geraldton	116.34	9.44	1.1294
Kwinana Power Partnership	*	7.84	1.0320
Kwinana	1,141.97	7.84	1.0321
Muja	2,207.26	11.84	1.0000
Mungarra	370.44	9.44	1.1162
Pinjar	1,245.17	7.07	1.0488
Pinjarra Alcoa	*	7.84	1.0155
Tiwest	*	7.84	1.0322
Wagerup	*	11.84	1.0021
West Kalgoorlie	286.99	2.73	1.0797
Worsley	*	11.84	0.9911

Metering Charges

Separate Metering charges apply – refer to section 4, Transition Metering Charges.

Transmission Loss Factor

See above table.

Excess Network Usage Charges

An additional charge applies where peak demand exceeds the nominated CMD – refer to section 6, Transmission Excess Network Usage Factor.

OTHER NETWORK CHARGES

4. Transition Metering Prices

Metering charges for distribution connections:

		\$/metering unit/annum
Existing	High Voltage	6,171.50
	Low voltage	1,004.85
Capital fully funded by customer	High Voltage	4,289.27
	Low Voltage	482.33

Metering charge for transmission connections is \$5,934.93 /metering unit /annum

5. Energy Balancing Service Charges

Account set-up fee	\$2,470.19
Account modification fee (per modification)	\$493.36
Linked account modification fee [1]	\$246.68
Billing fee	\$367.20/month
System maintenance fee [2]	\$91.23/MW/month

Notes:

- [1] Linked accounts occur where there is an arrangement to share out-of-balance energies. The total fee payable where there are linked accounts is \$493.36 for the prime account and \$246.68 for each “linked” account. The fees are independent of the number of meters.

[2] The monthly System Maintenance fee is based on the total of the highest monthly DSOC at each entry point for the month.

6. Transmission Excess Network Usage Factor

(refer to Electricity Transmission Regulations clause 24)

The excess network usage factor is 0.125 (=1.5/12)

7. Distribution Excess Network Usage Factor

(refer Electricity Distribution Regulations clause 26)

The excess network usage factor is 1.5.

8. Control System Service Prices

The Control System Service charge is included in the Transmission Exit Point Connection Price and Entry Point Total Connection Charge – refer sections 2 and 3. A separate Control System Service price does not apply.

LOSS FACTORS

9. Distribution Loss Factors

Load Connections

The applicable distribution loss factors are:

- For customers with CMDs greater than 7,000 kVA:
 - Specific individually calculated loss factor.
- For customers with CMDs between 1,000 kVA and 7,000 kVA and located greater than 10 km from the transmission substation:
 - Specific individually calculated loss factor
- Customers with CMDs between 1,000 kVA and 7,000 kVA and located less than 10 km from the transmission substation can choose either:
 - Specific individually calculated loss factor; or
 - Standard loss factor of:

Connection	Loss Factor
High Voltage	1.0211
Low Voltage	1.0333

Generator Connections

Specific individual loss factors are calculated for all distribution connected generators.

Note: All specific individually calculated loss factors (both load and generator connections) include zone substation loss factor of 1.0055.

10. Transmission Loss Factors

Transmission HV Loss Factors are location specific for:

- all generator connections, and
- all load connections greater than 1,000 kVA peak

as listed in the tables in sections 2 and 3 Transition Transmission Nodal Prices – Exit Points and Entry Points. *Note: In these tables, Transmission HV Loss Factors for Other Load Connections (eg. a load connected to zone substation LV busbar) do not include the zone substation loss factor.*

For all loads less than 1,000 kVA peak, a system-wide average HV transmission loss factor of 1.0559 applies.

ANCILLARY SERVICE PRICES

Prices for Ancillary Services are detailed in Schedule E “Support Services Prices For The South West Interconnected System 2005/2006”.