

Western Power Networks
Price Schedule C2

**Transition Network Tariffs & Prices
for the
South West Interconnected System
2004/2005**

Date of Issue: 26 July 2004
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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.

Standard tariffs are contained in the separate publication:

“Price Schedule C1
Standard Network Tariffs & Prices
for the South West Interconnected System
2004/2005”

WESTERN POWER NETWORKS PRICING PUBLICATIONS

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FOR THE SOUTH WEST INTERCONNECTED SYSTEM
2004/2005
(Standby generation, spinning reserve and balancing energy services)

PURPOSE OF THIS DOCUMENT

This document provides *“transition” network access prices, ancillary service prices* and *network loss factors* for the 2004/2005 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).

All listed prices are GST exclusive.

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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	42,021	3.46
Urban	42,021	1.50
Mining	42,021	10.67
Mixed	42,021	8.70
Rural	42,021	11.32

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	62,781	0.55
Urban	51,021	0.45
Mining	106,941	0.93
Mixed	94,221	0.84
Rural	109,941	0.97

Low Voltage Network Charge

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

Category	(\$/annum)
Fixed Price	1052
Demand Price	8.49/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	1.96	1.37
Mining	0.85	0.59
Mixed	1.05	0.71
Rural	0.91	0.64

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	1.67	1.16
Mining	0.71	0.49
Mixed	0.89	0.63
Rural	0.76	0.54

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	10,242
Average Load Greater than 1 MW and Less than 5 MW	6,145

Distribution Loss Factor

Refer to section 13, 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 14)
Albany	14.09	56.55	16.08	86.72	1.0747	1.0747
Amherst	19.30	9.21	16.08	44.59	1.0569	1.0542
Arkana	8.41	16.64	16.08	41.13	1.0564	1.0542
Australian Fused Materials	*	10.06	16.08	*	1.0430	1.0542
Australian Paper Mills	13.23	18.23	16.08	47.54	1.0561	1.0542
Baandee	135.32	129.87	16.08	281.27	1.0888	1.0888
Beechboro	6.98	15.14	16.08	38.20	1.0544	1.0542
Beenup	8.85	220.64	16.08	245.57	1.0412	1.0412
Belmont	9.63	13.16	16.08	38.87	1.0523	1.0542
Black Flag	11.42	51.55	16.08	79.05	1.1569	1.1569
Boddington (Local)	160.63	6.94	16.08	183.65	1.0200	1.0200
Boddington Reynolds	23.49	14.39	16.08	53.96	1.0200	1.0200
Boulder	14.78	44.14	16.08	75.00	1.1402	1.1402
Bounty	29.08	69.83	16.08	114.99	1.0891	1.0891
Bridgetown	22.38	26.32	16.08	64.78	1.0193	1.0193
British Petroleum	18.65	26.03	16.08	60.76	1.0441	1.0542
Broken Hill Kwinana	*	30.30	16.08	*	1.0435	1.0542

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 14)
Bunbury Harbour	14.56	9.99	16.08	40.63	1.0200	1.0200
Burswood Island Casino	*	32.09	16.08	*	1.0527	1.0542
Busselton	17.20	30.27	16.08	63.55	1.0905	1.0905
Byford	14.36	13.07	16.08	43.51	1.0491	1.0542
Canning Vale	9.98	12.16	16.08	38.22	1.0475	1.0542
Capel	33.93	24.05	16.08	74.06	1.0584	1.0584
Carrabin	22.24	177.37	16.08	215.69	1.1001	1.1001
Cataby Kerr McGee	*	6.92	16.08	*	1.1283	1.1283
Chapman	23.66	16.43	16.08	56.17	1.2099	1.2099
Clarence Street	16.16	21.77	16.08	54.01	1.0580	1.0542
Cockburn Cement	14.24	8.15	16.08	38.47	1.0451	1.0542
Cockburn Cement Ltd	*	8.15	16.08	*	1.0433	1.0542
Collie	36.28	34.03	16.08	86.39	1.0141	1.0141
Collier	9.85	23.77	16.08	49.70	1.0581	1.0542
Cook Street	10.94	18.76	16.08	45.78	1.0657	1.0542
Coolup	48.45	48.63	16.08	113.16	1.0574	1.0574
Cottesloe	21.13	17.87	16.08	55.08	1.0632	1.0542
Cunderdin	38.54	48.56	16.08	103.18	1.1025	1.1025
Darlington	30.48	8.58	16.08	55.14	1.0550	1.0542
Edgewater	*	23.00	16.08	*	1.0647	1.0542
Edmund Street	15.86	16.65	16.08	48.59	1.0537	1.0542
Eneabba	24.65	40.60	16.08	81.33	1.1678	1.1678
Forrest Ave	14.16	24.32	16.08	54.56	1.0587	1.0542
Forrestfield	29.03	21.07	16.08	66.18	1.0444	1.0542
Geraldton	7.23	54.88	16.08	78.19	1.2144	1.2144
Golden Grove	*	88.83	16.08	*	1.2104	1.2104
Gosnells	9.82	13.48	16.08	39.38	1.0491	1.0542
Hadfields	11.63	18.28	16.08	45.99	1.0560	1.0542
Hay Street	14.77	17.64	16.08	48.49	1.0571	1.0542
Herdsmen Parade	31.05	22.72	16.08	69.85	1.0646	1.0542
Joel Terrace	14.63	21.37	16.08	52.08	1.0574	1.0542
Kalamunda	14.42	14.16	16.08	44.66	1.0524	1.0542
Katanning	49.66	33.16	16.08	98.90	1.0519	1.0519
Kellerberrin	96.11	111.22	16.08	223.41	1.0965	1.0965
Kojonup	192.05	41.44	16.08	249.57	1.0275	1.0275
Kondinin Local	63.84	11.78	16.08	91.70	1.0586	1.0586
Kwinana Alcoa	*	9.28	16.08	*	1.0413	1.0542
Kwinana Power Partnership	*	11.03	16.08	*	1.0412	1.0542
Landsdale	19.30	15.06	16.08	50.44	1.0415	1.0542

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 14)
Malaga	19.30	16.64	16.08	52.02	1.0503	1.0542
Mandurah	18.89	10.79	16.08	45.76	1.0522	1.0542
Manjimup	30.12	52.36	16.08	98.56	1.0299	1.0299
Manning Street	19.24	15.29	16.08	50.61	1.0577	1.0542
Margaret River	32.70	28.98	16.08	77.76	1.1127	1.1127
Marriott Road Barrack Silicon	*	11.24	16.08	*	1.0218	1.0218
Marriott Road Local	15.96	11.64	16.08	43.68	1.0206	1.0206
Mason Road (local)	19.30	15.66	16.08	51.04	1.0412	1.0542
Mason Road CSBP	*	11.98	16.08	*	1.0417	1.0542
Mason Road Hismelt	*	3.69	16.08	*	1.0413	1.0542
Mason Road Kerr McGee	*	15.66	16.08	*	1.0410	1.0542
Medical Centre	20.68	23.18	16.08	59.94	1.0622	1.0542
Medina	21.97	11.57	16.08	49.62	1.0446	1.0542
Merredin 66kV	33.78	129.87	16.08	179.73	1.0832	1.0832
Midland Junction	10.48	20.45	16.08	47.01	1.0576	1.0542
Milligan Street	16.22	25.44	16.08	57.74	1.0565	1.0542
Moora	48.15	38.70	16.08	102.93	1.1208	1.1208
Morley	17.34	19.64	16.08	53.06	1.0553	1.0542
Mt Barker	19.30	56.55	16.08	91.93	1.0502	1.0502
Muchea Kerr McGee	*	19.97	16.08	*	1.0588	1.0542
Muchea Local	30.52	4.74	16.08	51.34	1.0591	1.0542
Mullaloo	10.10	15.06	16.08	41.24	1.0599	1.0542
Mundaring Weir	74.36	23.35	16.08	113.79	1.0627	1.0542
Myaree	11.33	20.96	16.08	48.37	1.0618	1.0542
Narrogin	43.42	7.56	16.08	67.06	1.0316	1.0316
Nedlands	21.90	20.68	16.08	58.66	1.0630	1.0542
North Beach	10.26	15.26	16.08	41.60	1.0592	1.0542
North Fremantle	22.85	20.09	16.08	59.02	1.0537	1.0542
North Perth	10.55	22.31	16.08	48.94	1.0564	1.0542
Northam 66kV	16.20	51.81	16.08	84.09	1.0753	1.0753
O'Connor	9.28	15.16	16.08	40.52	1.0594	1.0542
Osborne Park	11.39	20.33	16.08	47.80	1.0585	1.0542
Piccadilly	22.12	32.77	16.08	70.97	1.1455	1.1455
Picton 66	10.20	13.13	16.08	39.41	1.0232	1.0232
Pinjarra	28.35	4.40	16.08	48.83	1.0442	1.0542
Pinjarra ALCOA	*	4.38	16.08	*	1.0435	1.0542
Quinninup	255.09	44.25	16.08	315.42	1.0354	1.0354
Regans	19.30	6.92	16.08	42.30	1.0997	1.0997
Riverton	8.08	11.12	16.08	35.28	1.0463	1.0542

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 14)
Rivervale	32.59	28.36	16.08	77.03	1.0547	1.0542
Rockingham	8.93	14.28	16.08	39.29	1.0463	1.0542
Sawyers Valley	42.42	28.91	16.08	87.41	1.0686	1.0542
Shenton Park	19.19	19.67	16.08	54.94	1.0616	1.0542
South Fremantle 66kV	37.19	9.21	16.08	62.48	1.0497	1.0542
Southern Cross	64.61	36.10	16.08	116.79	1.1227 [#]	1.1227
Summer St	*	30.11	16.08	*	1.0568	1.0542
Tate Street	9.89	21.81	16.08	47.78	1.0535	1.0542
Three Springs	65.35	27.17	16.08	108.60	1.1757	1.1757
Tomlinson Street	*	40.99	16.08	*	1.0528	1.0542
University	24.27	23.11	16.08	63.46	1.0627	1.0542
Victoria Park	177.35	22.20	16.08	215.63	1.0540	1.0542
Wagerup	22.13	5.90	16.08	44.11	1.0049	1.0049
Wagin	130.93	98.30	16.08	245.31	1.0580	1.0580
Wanneroo	3.96	15.06	16.08	35.10	1.0599	1.0542
WEB Grating	*	22.86	16.08	*	1.0607	1.0542
Wellington Street	20.89	30.45	16.08	67.42	1.0590	1.0542
Welshpool	7.84	13.22	16.08	37.14	1.0501	1.0542
Wembley Downs	15.89	14.15	16.08	46.12	1.0631	1.0542
West Kalgoorlie	14.21	13.39	16.08	43.68	1.1413	1.1413
Western Collieries	*	6.34	16.08	*	0.9935	0.9935
Western Mining	*	7.36	16.08	*	1.0426	1.0542
Westralian Sands	*	24.01	16.08	*	1.0504	1.0504
Worsley	*	7.58	16.08	*	0.9901	0.9901
Wundowie	35.75	27.30	16.08	79.13	1.0871	1.0871
Yanchep	18.10	10.11	16.08	44.29	1.0580	1.0542
Yerbillon	2,224.31	246.36	16.08	2,486.75	1.1015	1.1015
Yilgarn	39.36	27.66	16.08	83.10	1.1054	1.1054
Yokine	14.41	17.55	16.08	48.04	1.0554	1.0542
Yornup	145.90	31.73	16.08	193.71	1.0436	1.0436

Applies to the Southern Cross 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	*	2.39	1.1402
Collie	*	10.32	0.9993
Geraldton	101.32	8.23	1.2144
Kwinana Power Partnership	*	6.83	1.0412
Kwinana	994.41	6.83	1.0371
Muia	1,922.04	10.32	1.0000
Mungarra	322.58	8.23	1.1407
Piniar	1,084.28	6.16	1.0507
Piniarra Alcoa	*	6.83	1.0435
Tiwest	*	6.83	1.0410
Wagerup	*	10.32	1.0049
West Kalgoorlie	249.91	2.39	1.1413
Worslev	*	10.32	0.9901

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	5,374
	Low voltage	875
New (Capital fully funded by customer)	High Voltage	3,735
	Low Voltage	420

Metering charge for transmission connections is \$5,168 /metering unit /annum

5. Energy Balancing Service Charges

Account set-up fee	\$2,193
Account modification fee (per modification)	\$438
Linked account modification fee [1]	\$219
Billing fee	\$326/month
System maintenance fee [2]	\$81/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 \$438 for the prime account and \$219 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.

ANCILLARY SERVICE PRICES

* All Ancillary Service Prices are currently under consideration in conjunction with the Electricity Reform Implementation Unit (ERIU). Revised prices are expected to be published during the 2004/05 financial year.

9. Spinning Reserve Prices *

GENERATOR UNIT MAXIMUM NET OUTPUT (MW)	PRICE (\$/h)
<10	NIL
10-45	8.42
46-65	19.30
66-125	106.99
126-250	190.28
>250	325.50

The purchase price for interruptible load is \$78,197/MW per annum.

10. Energy Balancing and Top Up and Spill (TUAS) Prices

For the current prices refer to the web page:

http://www.westernpower.com.au/html/networks/network_access/balancing_prices

http://www.westernpower.com.au/html/networks/network_access/spill_prices

11. Standby Generation Capacity Price *

The Standby Generation Capacity Price is \$16.46/kW

12. Excess Standby Generation Capacity Price *

The Excess Standby Generation Capacity price is \$20.00/kW/excess demand period.

LOSS FACTORS

13. Distribution Loss Factors

Load Connections

The applicable distribution loss factors are:

- For customers with CMDs greater than 7000 kVA:
 - Specific individually calculated loss factor.
- For customers with CMDs between 1000 kVA and 7000 kVA and located greater than 10 km from the transmission substation:
 - Specific individually calculated loss factor
- Customers with CMDs between 1000 kVA and 7000 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.

14. Transmission Loss Factors

Transmission HV Loss Factors are location specific for:

- all generator connections, and
- all load connections greater than 1000 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 1000 kVA peak, a system-wide average HV transmission loss factor of 1.0647 applies.