

Western Power Networks
Price Schedule C1

**Standard Network Tariffs & Prices
for the
South West Interconnected System
2002/2003**

Important Note:

Customers using more than 8,760 MWh per year prior to July 2001 may be eligible for special network tariffs. These are contained in the separate publication:

“Price Schedule C2
Transition Network Tariffs & Prices
for the South West Interconnected System
2002/2003”

WESTERN POWER NETWORKS PRICING PUBLICATIONS

- PART A NETWORK REVENUE AND AVERAGE PRICE PATH
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FOR THE SOUTH WEST INTERCONNECTED NETWORK
2002/2003**
 - C2 TRANSITION NETWORK TARIFFS AND PRICES
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- PART D NETWORK PRICE APPLICATION GUIDE
- PART E SUPPORT SERVICES PRICES
FOR THE SOUTH WEST INTERCONNECTED SYSTEM
2002/2003
(Standby generation, spinning reserve and balancing energy services)

PURPOSE OF THIS DOCUMENT

This document provides *network access prices*, *ancillary service prices* and *network loss factors* for the 2002/2003 financial year for the south-west interconnected Transmission and Distribution networks.

All listed prices are **GST exclusive**.

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Network Tariffs

Ten bundled network tariffs are available to customers with loads connected to the distribution network (“bundled” tariffs are inclusive of both transmission and distribution charges):

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NETWORK TARIFFS

Anytime Energy and Time of Use Energy Tariffs

Eligibility:

1. **Anytime Energy Tariff (Residential)** is available to residential customers with energy only metering.
2. **Anytime Energy Tariff (Business)** is available to business customers with energy only metering.
3. **Time of Use Energy Tariff (Small)** is available to customers with time of use energy metering and total annual electricity usage of less than 50,000 kWh.
4. **Time of Use Energy Tariff (Large)** is available to customers with time of use energy metering and total annual electricity usage of at least 50,000 kWh.

Prices:

	Fixed Price	Energy Rates			Distribution Loss Factor	Transmission Loss Factor
	\$/year	c/kWh	On Peak c/kWh	Off Peak c/kWh		
1. Anytime Energy Tariff (Residential)	75	3.70	-	-	1.0835	1.0647
2. Anytime Energy Tariff (Business)	75	5.05	-	-	1.0463	See below *
3. Time of Use Energy Tariff (Small)	75	-	5.65	1.85	1.0835	1.0647
4. Time of Use Energy Tariff (Large)	100	-	5.2	1.25	1.0463	See below *

Metering Charges

Inclusive in above prices

Administration Charges

Inclusive in above prices

Distribution Loss Factor

See above table

Transmission Loss Factor

* Refer to section 23, Transmission Loss Factors.

5. High Voltage Metered Demand Tariff

Eligibility:

This tariff is available to customers with maximum demands of less than 1.5MVA connected to the distribution network at high voltage (6.6 kV or higher).

Notes:

1. The metered demand (MD) is a rolling 12-month maximum half-hourly demand. There is a discount (described below) applied to the demand charge based on the proportion of off peak energy used.
2. For customers with maximum demands greater than 1MVA there is also a demand-length charge based on the rolling 12 month maximum half-hourly demand.

Demand Prices:

Demand (kVA) (Lower to upper threshold)	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA/annum	Distribution Loss Factor	Transmission Loss Factor
0 to 300	150	112	1.0211	See below *
300 to 1000	33,750	85		
1000 to 1500	93,250	40		

Demand Length Prices: (apply only where maximum demand is greater than 1 MVA)

The applicable prices are as listed in the Demand Length Prices table in section 7 High Voltage Contract Maximum Demand Tariff.

Discount Factor:

A discount, based on the percentage of off peak energy consumption (as a proportion of the total energy consumption), applies to the Metered Demand Tariffs.

The total demand charge (metered demand charge minus discount) is calculated by determining the charge based on the demand prices and then discounting that charge according to the following formula.

$$\text{Charge} = (1 - \text{Discount}) * (\text{Metered Demand Charge})$$

Where the Discount is defined as:

$$(E_{\text{Off Peak}}/E_{\text{Total}}) * \text{DF} \quad \text{for MD} < 1000\text{kVA and;}$$

$$((1500 - \text{MD})/500) * (E_{\text{Off Peak}}/E_{\text{Total}}) * \text{DF} \quad \text{for } 1000 < \text{MD} < 1500\text{kVA}$$

DF is the discount factor, which set at 50%

E_{Off Peak} is the total off peak energy for the billing period; and

E_{Total} is the total energy (both on and off peak) for the billing period

(Note: This discount does not apply to the demand-length portion of the charge.)

Metering Charges

Separate Metering charges apply in conjunction with this tariff – refer to section 13, Metering Charges.

Administration Charges

Inclusive in above prices

Distribution Loss Factor

See above table

Transmission Loss Factor

* Refer to section 23, Transmission Loss Factors.

6. Low Voltage Metered Demand Tariff

Eligibility:

This tariff is available to customers with maximum demands of less than 1.5MVA connected to the distribution network at low voltage (415 volts).

Notes:

Similar to the HV Metered Demand tariff but for customers connected at low voltage. The higher tariff rates reflect the additional cost of using the low voltage network.

Demand Prices:

Demand (kVA) (Lower to upper threshold)	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA/annum	Distribution Loss Factor	Transmission Loss Factor
0 to 300	200	120	1.0333	See below *
300 to 1000	36,200	93		
1000 to 1500	101,300	48		

Demand Length Prices: (apply only where maximum demand is greater than 1 MVA)

The applicable prices are as listed in the Demand Length Prices table in section 7 High Voltage Contract Maximum Demand Tariff.

Discount Factor:

Refer to section 5, High Voltage Metered Demand Tariff.

Metering Charges

Separate Metering charges apply in conjunction with this tariff – refer to section 13, Metering Charges.

Administration Charges

Inclusive in above prices

Distribution Loss Factor

See above table

Transmission Loss Factor

* Refer to section 23, Transmission Loss Factors.

7. High Voltage Contract Maximum Demand Tariff

Eligibility:

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

Notes:

1. There is a different demand price for each zone substation to which the load is connected to reflect Transmission nodal and Distribution zonal cost reflective prices.
2. Where the CMD is less than 7000kVA, the total "Demand Charge" is calculated by multiplying the demand rate by the (CMD minus 1000 kVA) and then adding the "Fixed charge for first 1000 kVA".
3. If the CMD is greater than 7000 kVA, the "Demand Charge" is calculated by multiplying the demand rate by the total CMD.
4. There is also a demand-length component in the distribution charge based on the distance from the zone substation. These prices are listed below the following Demand Price table.
5. An additional excess network usage charge applies where actual peak demand exceeds the nominated CMD.

Demand Prices:

Zone Substation	Pricing Zone	Fixed charge for first 1000 kVA (\$ per annum)	Demand charge for 1000<kVA <7000 (\$/kVA/ annum)	Demand Charge for kVA > 7000 (\$/kVA/ annum)	Zone Substation	Pricing Zone	Fixed charge for first 1000 kVA (\$ per annum)	Demand charge for 1000<kVA <7000 (\$/kVA/ annum)	Demand Charge for kVA > 7000 (\$/kVA/ annum)
Cook St	CBD	72,488	50.77	53.88	Amherst	Urban	72,488	42.02	46.38
Forrest Ave	CBD	72,488	50.77	53.88	Arkana	Urban	72,488	42.02	46.38
Hay St	CBD	72,488	50.77	53.88	Aust Paper Mills	Urban	72,488	40.61	45.17
Milligan St	CBD	72,488	50.77	53.88	Beechboro	Urban	72,488	42.02	46.38
Wellington St	CBD	72,488	50.77	53.88	Belmont	Urban	72,488	41.23	45.69
Black Flag	Mining	72,488	89.95	87.46	British Petroleum	Urban	72,488	42.02	46.38
Boulder	Mining	72,488	86.17	84.22	Canning Vale	Urban	72,488	40.17	44.78
Bounty	Mining	72,488	141.41	131.56	Chapman	Urban	72,488	67.34	68.08
West Kalgoorlie	Mining	72,488	78.90	77.98	Clarence St	Urban	72,488	42.02	46.38
Albany	Mixed	72,488	88.59	86.29	Cockburn Cement	Urban	72,488	37.41	42.42
Boddington	Mixed	72,488	46.84	50.50	Collier	Urban	72,488	42.02	46.38
Bunbury Harbour	Mixed	72,488	48.34	51.79	Cottesloe	Urban	72,488	42.02	46.38
Busselton	Mixed	72,488	74.16	73.92	Edmund St	Urban	72,488	42.02	46.38
Byford	Mixed	72,488	48.91	52.28	Forrestfield	Urban	72,488	42.02	46.38
Capel	Mixed	72,488	61.65	63.20	Gosnells	Urban	72,488	42.02	46.38
Darlington	Mixed	72,488	55.48	57.91	Hadfields	Urban	72,488	41.98	46.34
Eneabba	Mixed	72,488	69.74	70.13	Herdsmen Parade	Urban	72,488	42.02	46.38
Geraldton	Mixed	72,488	77.22	76.55	Joel Terrace	Urban	72,488	42.02	46.38
Marriot Rd Local	Mixed	72,488	48.94	52.30	Kalamunda	Urban	72,488	42.02	46.38
Muchea	Mixed	72,488	50.23	53.41	Landsdale	Urban	72,488	41.62	46.03
Northam	Mixed	72,488	66.54	67.39	Malaga	Urban	72,488	40.52	45.09
Picton	Mixed	72,488	53.22	55.97	Mandurah	Urban	72,488	42.02	46.38
Sawyers Valley	Mixed	72,488	68.57	69.13	Manning	Urban	72,488	42.02	46.38
Southern Cross	Mixed	72,488	117.58	111.14	Mason Road	Urban	72,488	33.58	39.14
Yanchep	Mixed	72,488	48.67	52.07	Medical Centre	Urban	72,488	42.02	46.38
Yilgarn	Mixed	72,488	87.31	85.19	Medina	Urban	72,488	34.97	40.33
Baandee	Rural	72,488	76.77	76.16	Midland Junction	Urban	72,488	42.02	46.38
Beenup	Rural	72,488	78.82	77.91	Morley	Urban	72,488	42.02	46.38
Bridgetown	Rural	72,488	51.26	54.29	Mullaloo	Urban	72,488	42.02	46.38
Carrabin	Rural	72,488	86.79	84.75	Mundaring Weir	Urban	72,488	42.02	46.38
Collie	Rural	72,488	72.77	72.73	Myaree	Urban	72,488	42.02	46.38
Coolup	Rural	72,488	79.84	78.79	Nedlands	Urban	72,488	42.02	46.38
Cunderdin	Rural	72,488	76.65	76.06	North Beach	Urban	72,488	42.02	46.38
Katanning	Rural	72,488	87.38	85.25	North Fremantle	Urban	72,488	42.02	46.38
Kellerberrin	Rural	72,488	79.42	78.43	North Perth	Urban	72,488	42.02	46.38
Kojonup	Rural	72,488	52.41	55.28	O'Connor	Urban	72,488	42.02	46.38
Kondinin	Rural	72,488	57.79	59.89	Osborne Park	Urban	72,488	41.47	45.90
Manjimup	Rural	72,488	54.40	56.98	Piccadilly	Urban	72,488	76.69	76.09
Margaret River	Rural	72,488	88.35	86.09	Riverton	Urban	72,488	41.21	45.68
Merredin	Rural	72,488	71.95	72.02	Rivervale	Urban	72,488	42.02	46.38
Moora	Rural	72,488	62.81	64.19	Rockingham	Urban	72,488	42.02	46.38
Mt Barker	Rural	72,488	84.42	82.72	Shenton Park	Urban	72,488	42.02	46.38
Narrogin	Rural	72,488	97.99	94.34	South Fremantle	Urban	72,488	41.69	46.09
Pinjarra	Rural	72,488	47.85	51.37	Tate St	Urban	72,488	42.02	46.38
Quinninup	Rural	72,488	147.07	136.42	University	Urban	72,488	42.02	46.38
Regans	Rural	72,488	56.49	58.78	Victoria Park	Urban	72,488	41.88	46.25
Three Springs	Rural	72,488	63.78	65.02	Wanneroo	Urban	72,488	42.02	46.38
Wagerup	Rural	72,488	43.04	47.24	Welshpool	Urban	72,488	41.63	46.04
Wagin	Rural	72,488	66.32	67.20	Wembley Downs	Urban	72,488	42.02	46.38
Wundowie	Rural	72,488	65.03	66.09	Yokine	Urban	72,488	42.02	46.38
Yerbillon	Rural	72,488	91.28	88.60					
Yornup	Rural	72,488	106.91	102.00					

Demand Length Prices:

Maximum Demand 1000 to 7000 kVA

Pricing Zone	Demand-Length Charge	
	For kVA >1000 and first 10 km length (\$/kVA.km/annum)	For kVA >1000 and length in excess of 10 km (\$/kVA.km/annum)
CBD	0	0
Urban	1.75	1.23
Mining	0.38	0.27
Mixed	0.82	0.57
Rural	0.57	0.40

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	0
Urban	1.50	1.05
Mining	0.33	0.23
Mixed	0.70	0.49
Rural	0.49	0.34

Metering Charges

Separate Metering charges apply in conjunction with this tariff – refer to section 13, Metering Charges.

Administration Charges

Separate Administration charges apply in conjunction with this tariff as follows:

Peak Demand	Price (\$/day)
>7MVA	25
<7MVA	15

Distribution Loss Factor

Refer to section 22, Distribution Loss Factors.

Transmission Loss Factor

Refer to section 23, Transmission Loss Factors.

Excess Network Usage Charges

An additional charge applies in conjunction with this tariff where peak demand exceeds the nominated CMD – refer to sections 15 and 16, Transmission and Distribution Excess Network Usage Factors.

8. Low Voltage Contract Maximum Demand Tariff

Eligibility:

This tariff is available to customers with maximum demands of greater than 1.0MVA connected to the distribution network at low voltage (415 volts).

Notes:

This tariff is identical to the High Voltage Contract Maximum Demand Tariff above, with an additional low voltage charge to cover the use of transformers and LV circuits.

Demand Prices:

Identical to the High Voltage Contract Maximum Demand Tariff above.

Demand Length Prices:

Identical to the High Voltage Contract Maximum Demand Tariff above.

Low Voltage Price

Category	Price (\$/annum)
Fixed	938
Demand	7.57/kVA

Metering Charges

Separate Metering charges apply in conjunction with this tariff – refer to section 13, Metering Charges.

Administration Charges

Identical to the High Voltage Contract Maximum Demand Tariff above.

Distribution Loss Factor

Refer section 22, Distribution Loss Factors.

Transmission Loss Factor

Refer section 23, Transmission Loss Factors.

Excess Network Usage Charges

An additional charge applies in conjunction with this tariff where peak demand exceeds the nominated CMD – refer to sections 15 and 16, Transmission and Distribution Excess Network Usage Factors.

9. Street Lighting

Eligibility:

These prices apply to Western Power streetlights.

Network Use of System Prices:

	Fixed \$/annum	Anytime Energy c/kWh	Distribution Loss Factor	Transmission Loss Factor
Bundled Tariff	6.5	2.68	1.08151	1.0647

Asset Prices:

Light Specification	Annual Charge \$/annum
50W MV	\$27.50
70W HPS	\$38.00
80W MV	\$37.00
125W MV	\$46.00
150W HPS	\$50.00
250W HPS	\$50.00
250W MV	\$60.00
400W MV	\$63.00

10. Unmetered Supplies

These prices apply to unmetered supplies.

Network Use of System Prices:

	Fixed \$/annum	Anytime Energy c/kWh	Distribution Loss Factor	Transmission Loss Factor
Bundled Tariff	40	2.79	1.08151	1.0647

TRANSMISSION NODAL PRICES

11. Exit Points

Eligibility:

These prices apply to:

- Loads connected directly to the transmission network at 66kV or above; and
- On-site loads associated with generators connected to either the transmission or distribution networks.

Notes:

1. Connection charges 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 on-site loads associated with generators connected either directly to the transmission network at less than 66kV or to the distribution network; and
 - does not include the Control System Services charge (refer to section 18, Control System Services Prices).
3. * Denotes the actual charge is to be determined subject to the specific connection arrangements

Prices:

Substation	Connection Price \$/kW (See Notes 1 & 2)	Exit Use of System Price \$/kW	Common Service Price \$/kW	Total Price \$/kW	Transmission Loss Factor for Connections with HV Transmission Connected Loads	Transmission Loss Factor for other Load Connections >1000 kVA (See section 23)
Albany	13.89	41.09	14.29	69.26	1.0747	1.0747
Amherst	13.89	10.43	14.29	38.61	1.0569	1.0542
Arkana	13.89	12.76	14.29	40.93	1.0564	1.0542
Australian Fused Materials	*	6.35	14.29	*	1.0430	1.0542
Australian Paper Mills	13.89	13.76	14.29	41.93	1.0561	1.0542
Baandee	13.89	46.23	14.29	74.4	1.0888	1.0888
Beechboro	13.89	12.26	14.29	40.43	1.0544	1.0542
Beenup	13.89	46.77	14.29	74.95	1.0412	1.0412
Belmont	13.89	12.33	14.29	40.5	1.0523	1.0542
Black Flag	13.89	53.84	14.29	82.02	1.1569	1.1569
Boddington ALCOA	13.89	9.05	14.29	37.22	1.0200	1.0200
Boddington Reynolds	13.89	9.55	14.29	37.72	1.0200	1.0200
Boulder	13.89	50.18	14.29	78.35	1.1402	1.1402
Bounty	13.89	91.87	14.29	120.04	1.0891	1.0891
Bridgetown	13.89	19.95	14.29	48.12	1.0193	1.0193

Substation	Connection Price \$/kW (See Notes 1 & 2)	Exit Use of System Price \$/kW	Common Service Price \$/kW	Total Price \$/kW	Transmission Loss Factor for Connections with HV Transmission Connected Loads	Transmission Loss Factor for other Load Connections >1000 kVA (See section 23)
British Petroleum	13.89	18.14	14.29	46.31	1.0441	1.0542
Broken Hill Kwinana	*	15.7	14.29	*	1.0435	1.0542
Bunbury Harbour	13.89	9.89	14.29	38.07	1.0200	1.0200
Burswood Island Casino	*	30.64	14.29	*	1.0527	1.0542
Busselton	13.89	32.69	14.29	60.87	1.0905	1.0905
Byford	13.89	10.82	14.29	38.99	1.0491	1.0542
Canning Vale	13.89	10.93	14.29	39.1	1.0475	1.0542
Capel	13.89	20.98	14.29	49.16	1.0584	1.0584
Carrabin	13.89	56.33	14.29	84.5	1.1001	1.1001
Cataby Kerr McGee	*	22.71	14.29	*	1.1283	1.1283
Chapman	13.89	38.79	14.29	66.97	1.2099	1.2099
Clarence Street	13.89	23.13	14.29	51.31	1.0580	1.0542
Cockburn Cement	13.89	7.17	14.29	35.34	1.0451	1.0542
Cockburn Cement Ltd	*	6.75	14.29	*	1.0433	1.0542
Collie	13.89	41.25	14.29	69.42	1.0141	1.0141
Collier	13.89	20.13	14.29	48.31	1.0581	1.0542
Cook Street	13.89	17.41	14.29	45.58	1.0657	1.0542
Coolup	13.89	45.84	14.29	74.01	1.0574	1.0574
Cottesloe	13.89	15.37	14.29	43.54	1.0632	1.0542
Cunderdin	13.89	40.45	14.29	68.62	1.1025	1.1025
Darlington	13.89	14.95	14.29	43.13	1.0550	1.0542
Edgewater	*	12.78	14.29	*	1.0647	1.0542
Edmund Street	13.89	12.95	14.29	41.13	1.0537	1.0542
Eneabba	13.89	27.46	14.29	55.63	1.1678	1.1678
Forrest Ave	13.89	17.41	14.29	45.58	1.0587	1.0542
Forrestfield	13.89	14.34	14.29	42.51	1.0444	1.0542
Geraldton	13.89	33.09	14.29	61.27	1.2144	1.2144
Golden Grove	*	85.83	14.29	*	1.2104	1.2104
Gosnells	13.89	11.82	14.29	39.99	1.0491	1.0542
Hadfields	13.89	13.27	14.29	41.44	1.0560	1.0542
Hay Street	13.89	17.41	14.29	45.58	1.0571	1.0542
Herdsmen Parade	13.89	20.69	14.29	48.87	1.0646	1.0542
Joel Terrace	13.89	18.15	14.29	46.33	1.0574	1.0542
Kalamunda	13.89	14.14	14.29	42.32	1.0524	1.0542
Katanning	13.89	44.37	14.29	72.54	1.0519	1.0519
Kellerberrin	13.89	44.33	14.29	72.5	1.0965	1.0965
Kojonup	13.89	14.1	14.29	42.27	1.0275	1.0275
Kondinin Local	13.89	18.35	14.29	46.53	1.0586	1.0586
Kwinana Alcoa	*	2.51	14.29	*	1.0413	1.0542
Kwinana Power Partnership	*	4	14.29	*	1.0412	1.0542
Landsdale	13.89	12.94	14.29	41.11	1.0415	1.0542

Substation	Connection Price \$/kW (See Notes 1 & 2)	Exit Use of System Price \$/kW	Common Service Price \$/kW	Total Price \$/kW	Transmission Loss Factor for Connections with HV Transmission Connected Loads	Transmission Loss Factor for other Load Connections >1000 kVA (See section 23)
Malaga	13.89	12.76	14.29	40.93	1.0503	1.0542
Mandurah	13.89	14.15	14.29	42.33	1.0522	1.0542
Manjimup	13.89	25.69	14.29	53.87	1.0299	1.0299
Manning Street	13.89	13.41	14.29	41.59	1.0577	1.0542
Margaret River	13.89	53.3	14.29	81.47	1.1127	1.1127
Marriott Road Barrack Silicon	*	10.92	14.29	*	1.0218	1.0218
Marriott Road Local	13.89	9.97	14.29	38.14	1.0206	1.0206
Mason Road (local)	13.89	4	14.29	32.17	1.0412	1.0542
Mason Road CSBP	*	7.13	14.29	*	1.0417	1.0542
Mason Road Hismelt	*	21.37	14.29	*	1.0413	1.0542
Mason Road Kerr McGee	*	4	14.29	*	1.0410	1.0542
Medical Centre	13.89	17.52	14.29	45.69	1.0622	1.0542
Medina	13.89	5.74	14.29	33.91	1.0446	1.0542
Merredin 66kV	13.89	37.73	14.29	65.9	1.0832	1.0832
Midland Junction	13.89	17.39	14.29	45.56	1.0576	1.0542
Milligan Street	13.89	17.41	14.29	45.58	1.0565	1.0542
Moora	13.89	22.85	14.29	51.03	1.1208	1.1208
Morley	13.89	13.45	14.29	41.62	1.0553	1.0542
Mt Barker	*	41.09	14.29	*	1.0502	1.0502
Muchea Kerr McGee	*	18.12	14.29	*	1.0588	1.0542
Muchea Local	13.89	12.51	14.29	40.68	1.0591	1.0542
Mullaloo	13.89	12.94	14.29	41.11	1.0599	1.0542
Mundaring Weir	13.89	27.32	14.29	55.5	1.0627	1.0542
Myaree	13.89	16.66	14.29	44.84	1.0618	1.0542
Narrogin	13.89	62.68	14.29	90.85	1.0316	1.0316
Nedlands	13.89	15.32	14.29	43.5	1.0630	1.0542
North Beach	13.89	13.25	14.29	41.42	1.0592	1.0542
North Fremantle	13.89	15	14.29	43.17	1.0537	1.0542
North Perth	13.89	11.37	14.29	39.55	1.0564	1.0542
Northam 66kV	13.89	27.04	14.29	55.21	1.0753	1.0753
O'Connor	13.89	14.66	14.29	42.83	1.0594	1.0542
Osborne Park	13.89	14.33	14.29	42.51	1.0585	1.0542
Piccadilly	13.89	48.12	14.29	76.29	1.1455	1.1455
Picton 66	13.89	12.99	14.29	41.17	1.0232	1.0232
Pinjarra	13.89	12.65	14.29	40.82	1.0442	1.0542
Pinjarra ALCOA	*	20.89	14.29	*	1.0435	1.0542
Quinninup	13.89	103.97	14.29	132.15	1.0354	1.0354
Regans	13.89	22.71	14.29	50.88	1.0997	1.0997
Riverton	13.89	9.89	14.29	38.06	1.0463	1.0542
Rivervale	13.89	24.67	14.29	52.85	1.0547	1.0542
Rockingham	13.89	7.72	14.29	35.9	1.0463	1.0542

Substation	Connection Price \$/kW (See Notes 1 & 2)	Exit Use of System Price \$/kW	Common Service Price \$/kW	Total Price \$/kW	Transmission Loss Factor for Connections with HV Transmission Connected Loads	Transmission Loss Factor for other Load Connections >1000 kVA (See section 23)
Sawyers Valley	13.89	31.84	14.29	60.01	1.0686	1.0542
Shenton Park	13.89	15.42	14.29	43.59	1.0616	1.0542
South Fremantle 66kV	13.89	10.43	14.29	38.61	1.0497	1.0542
Southern Cross	13.89	65.08	14.29	93.26	1.1227 [#]	1.1227
Summer St	*	24.13	14.29	*	1.0568	1.0542
Tate Street	13.89	20.02	14.29	48.19	1.0535	1.0542
Three Springs	13.89	23.39	14.29	51.56	1.1757	1.1757
Tomlinson Street	*	24.15	14.29	*	1.0528	1.0542
University	13.89	18.16	14.29	46.33	1.0627	1.0542
Victoria Park	13.89	19.43	14.29	47.6	1.0540	1.0542
Wagerup	13.89	9.24	14.29	37.41	1.0049	1.0049
Wagin	13.89	27.57	14.29	55.75	1.0580	1.0580
Wanneroo	13.89	11.62	14.29	39.8	1.0599	1.0542
WEB Grating	*	97.98	14.29	*	1.0607	1.0542
Wellington Street	13.89	17.41	14.29	45.58	1.0590	1.0542
Welshpool	13.89	12.47	14.29	40.64	1.0501	1.0542
Wembley Downs	13.89	16.19	14.29	44.37	1.0631	1.0542
West Kalgoorlie	13.89	42.24	14.29	70.41	1.1413	1.1413
Western Collieries	*	4.69	14.29	*	0.9935	0.9935
Western Mining	*	4.99	14.29	*	1.0426	1.0542
Westralian Sands	*	18.94	14.29	*	1.0504	1.0504
Worsley	*	6.95	14.29	*	0.9901	0.9901
Wundowie	13.89	29.03	14.29	57.2	1.0871	1.0871
Yanchep	13.89	10.53	14.29	38.7	1.0580	1.0542
Yerbillon	13.89	54.16	14.29	82.34	1.1015	1.1015
Yilgarn	13.89	42.3	14.29	70.47	1.1054	1.1054
Yokine	13.89	12.98	14.29	41.15	1.0554	1.0542
Yornup	13.89	75.89	14.29	104.06	1.0436	1.0436

Applies to the Southern Cross 33kV busbar

Metering Charges

Separate Metering charges apply in conjunction with this tariff – refer to section 13, Metering Charges.

Transmission Loss Factor

See above table.

Excess Network Usage Charges

An additional charge applies in conjunction with this tariff where peak demand exceeds the nominated CMD – refer to section 15, Transmission Excess Network Usage Factor.

12. 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 18, Control System Services Prices).
2. The Connection Price shown in the following table:
 - applies to generators connected either directly to the transmission network at less than 66kV or to the distribution network; and
 - does not include the Control System Services Charge (refer to section 18, Control System Services Prices).
3. * Denotes the charge is not published but is determined subject to the specific connection arrangements.

Prices:

Substation	Total Connection Charge \$K (Refer Note 1)	Connection Price \$/kW (Refer Note 2)	Entry Use of System Price \$/kW	Transmission Loss Factor
Boulder	*	13.89	5.42	1.1402
Collie	611.32	13.89	8.70	1.0141
Geraldton	*	13.89	1.50	1.2144
Kwinana Power Partnership	*	*	4.90	1.0412
Kwinana	1,242.32	13.89	5.19	1.0371
Muja	1,789.21	13.89	8.34	1.0000
Mungarra	358.12	13.89	8.16	1.1407
Pinjar	930.96	13.89	4.26	1.0507
Pinjarra Alcoa	*	*	9.11	1.0435
Tiwest	*	*	4.50	1.0410
Wagerup	*	*	5.92	1.0049
West Kalgoorlie	*	13.89	5.32	1.1413
Worsley	*	*	6.59	0.9901

Metering Charges

Separate Metering charges apply in conjunction with this tariff – refer to section 13, Metering Charges.

Transmission Loss Factor

See above table.

Excess Network Usage Charges

An additional charge applies in conjunction with this tariff where peak demand exceeds the nominated CMD – refer to section 15, Transmission Excess Network Usage Factor.

OTHER NETWORK CHARGES

13. Metering Charges

Metering charges apply to the following tariffs:

- HV CMD
- LV CMD
- HV Metered Demand
- LV Metered Demand.

		\$/metering unit/annum
Existing	High Voltage	\$2,000
	Low voltage	\$375
New (Capital fully funded by customer)	High Voltage	\$260
	Low Voltage	\$50

Metering charge for transmission connections:

	\$/metering unit/annum
Meter with tariff metering CT/VT @ 66kV and above	\$9,924
Meter with tariff metering CT/VT @ <66kV	\$2,000

14. Energy Balancing Service Charges

Account set-up fee	\$2,150
Account modification fee (per modification)	\$530
Linked account modification fee [1]	\$265
Billing fee	\$390/month
System maintenance fee [2]	\$90/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 \$530 for the prime account and \$265 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.

15. Transmission Excess Network Usage Factor

(refer to Electricity Transmission Regulations clause 24)

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

This applies only to the following tariffs:

- High Voltage Contract Maximum Demand
- Low Voltage Contract Maximum Demand
- Transmission Nodal Prices

16. Distribution Excess Network Usage Factor

(refer Electricity Distribution Regulations clause 26)

The excess network usage factor is 1.5.

This applies only to the following tariffs:

- High Voltage Contract Maximum Demand
- Low Voltage Contract Maximum Demand

ANCILLARY SERVICE PRICES

17. Spinning Reserve Prices

(Note: These prices apply from 1 January 2003.)

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.

18. Control System Service Prices

Control System Service prices apply only in conjunction with Transmission Exit Point and Entry Point prices.

The Control System Service price is \$3.71/kW for loads and \$0.59/kW for generators.

Load CMD and generator unit maximum output are used to calculate the Control System Service charge. For a connection with both on-site loads and embedded generators, the Control System Service charge will be the higher of the one based on CMD and the one based on generator unit maximum output.

Note: The Control System Service charge is included in the Total Connection Charge for entry points.

19. Energy Balancing Prices

For the current prices refer to the web page:

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

20. Standby Generation Capacity Price

The Standby Generation Capacity Price is \$16.45/kW

21. Excess Standby Generation Capacity Price

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

LOSS FACTORS

22. Distribution Loss Factors

Load Connections

Distribution loss factors are assigned to network tariffs as shown in the relevant tables above for:

- Any time Energy tariffs
- Time of Use Energy tariffs
- Metered Demand tariffs

For the High Voltage and Low Voltage Contract Maximum Demand tariffs, 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 as per sections 5 and 6 High Voltage and Low Voltage Metered Demand Tariffs (respectively for HV or LV connection).

Generator Connections

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

23. Transmission Loss Factors

Transmission loss factors are location specific for:

- All generator connections
- All load connections greater than 1000 kVA peak

as listed in the tables in sections 11 and 12 Transmission Nodal Prices – Exit Points and Entry Points.

For all loads less than 1000 kVA peak, a system-wide average transmission loss factor of 1.0647 applies.
