

## Network Access Prices For Western Power's South West Interconnected Networks From 1 July 2002

This document provides network access prices for the 2002/2003 financial year for the south-west interconnected Transmission and Distribution networks (GST exclusive).

### Access Tariffs for Load Users

The prices are presented both as separate Transmission and Distribution access prices and, for distribution connected customers, in combined form as bundled network prices.

A suite of ten bundled network tariffs is provided to facilitate access to all customers connected to the distribution network:

- Anytime Energy (Residential)
- Anytime Energy (Business)
- Time of Use Energy (Small)
- Time of Use Energy (Large)
- High Voltage Metered Demand
- Low Voltage Metered Demand
- High Voltage Contract Maximum Demand
- Low Voltage Contract Maximum Demand
- Streetlighting
- Unmetered Supplies

Transmission nodal access prices apply to customers connected directly to the HV transmission network.

Separate Metering charges apply to the Metered Demand and CMD tariffs.

Separate Administration charges apply to the CMD tariffs.

All other Metering and Administration charges are inclusive in the respective tariffs.

Excess Network Usage charges apply to CMD tariffs only

### Access Tariffs for Generation Users

Transmission Entry Point charges are included in this document.

Distribution charges for generation access will be determined individually by Western Power Networks, based on the current approach detailed in the pricing paper.

**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 publications:

*“Electricity Distribution Access - Transition Network Prices for the period commencing 1 July 2002 - South West Interconnected Network”* and

*“Electricity Transmission Access – Transition Network Prices for the period commencing 1 July 2002 - South West Interconnected Network”*.

## 1. Anytime Energy Tariff (Residential)

This tariff is available to residential customers with energy only metering.

	Fixed \$/annum	Anytime Energy c/kWh
Transmission	0	1.25
Distribution	75	2.45
Bundled Tariff	75	3.70

## 2. Anytime Energy Tariff (Business)

This tariff is available to business customers with energy only metering.

	Fixed \$/annum	Anytime Energy c/kWh
Transmission	0	1.60
Distribution	75	3.45
Bundled Tariff	75	5.05

## 3. Time of Use Energy Tariff (Small)

This tariff is available to customers with time of use energy metering and total annual consumption of less than 50,000 kWh.

	Fixed \$/annum	On Peak Energy c/kWh	Off Peak Energy c/kWh
Transmission	0	1.85	0.5
Distribution	75	3.80	1.35
Bundled Tariff	75	5.65	1.85

## 4. Time of Use Energy Tariff (Large)

This tariff is available to business customers with time of use energy metering, total annual consumption greater than 50,000 kWh.

	Fixed \$/annum	On Peak Energy c/kWh	Off Peak Energy c/kWh
Transmission	0	1.95	0.5
Distribution	100	3.25	0.75
Bundled Tariff	100	5.2	1.25

## 5. High Voltage Metered Demand

This tariff is available to customers with maximum demands of less than 1.5MVA connected at HV to the distribution network.

The metered demand 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.

For customers with demands greater than 1MVA there is also a demand-length charge identical to the CMD tariffs but based on the rolling 12 month maximum half-hourly demand.

Demand (kVA) (Lower to upper threshold)	Transmission		Distribution		Total	
	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA
0 to 300	0	52	150	60	150	112
300 to 1000	15,600	40	18,150	45	33,750	85
1000 to 1500	43,600	25	49,650	15	93,250	40

(Refer to tables under CMD-HV tariff below for Distribution demand-length charges)

## 6. Low Voltage Metered Demand

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 (kVA) (Lower to upper threshold)	Transmission		Distribution		Total	
	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA	Fixed \$/annum	Demand (in excess of lower threshold) \$/kVA
0 to 300	0	52	200	68	200	120
300 to 1000	15,600	40	20,600	53	36,200	93
1000 to 1500	43,600	25	57,700	23	101,300	48

(Refer to tables under CMD-HV tariff below for Distribution demand-length charges)

## Metered Demand Tariffs (continued)

### *Discount as Applied to Metered Demand Tariffs*

The discount is based on the percentage of off peak energy consumption (as a proportion of the total energy consumption).

The total demand charge (metered demand minus discount) is calculated by determining the charge based on the above tariffs 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:

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

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

DF is the discount factor, which set at 50%

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

$E_{\text{Total}}$  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.

## 7. High Voltage Contract Maximum Demand (CMD-HV)

This tariff is similar in structure to the current published distribution network tariff. It is available only to customers with contract maximum demands greater than 1MVA.

There is a different price for each zone substation to which the load is connected to reflect Transmission nodal and Distribution zonal cost reflective prices.

Important Notes:

- The "fixed charge" applies to customers with maximum demands below 7000 kVA.
- The fixed charge does not apply to customers with demands above 7000 kVA.
- Where the CMD is less than 7000kVA, the "Demand Charge" is calculated by multiplying the demand rate by the (CMD minus 1000 kVA). If the CMD is greater than 7000 kVA the "Demand Charge" is calculated by multiplying the demand rate by the total CMD.
- There is also a demand-length component in the distribution charge based on the distance from the zone substation. These prices are included after the table.

zonesub	pricing zone	Transmission			Distribution			Bundled		
		Fixed charge for first 1000 kVA (\$ per annum)	Demand charge for 1000<kVA <7000 (\$/kVA/annum)	Demand Charge for kVA > 7000 (\$/kVA/annum)	Fixed charge for first 1000 kVA (\$ per annum)	Demand charge for 1000<kVA <7000 (\$/kVA/annum)	Demand Charge for kVA > 7000 (\$/kVA/annum)	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	35,052	40.68	39.88	37,436	10.09	14.00	72,488	50.77	53.88
Forrest Ave	CBD	35,052	40.68	39.88	37,436	10.09	14.00	72,488	50.77	53.88
Hay St	CBD	35,052	40.68	39.88	37,436	10.09	14.00	72,488	50.77	53.88
Milligan St	CBD	35,052	40.68	39.88	37,436	10.09	14.00	72,488	50.77	53.88
Wellington St	CBD	35,052	40.68	39.88	37,436	10.09	14.00	72,488	50.77	53.88
Black Flag	Mining	35,052	85.16	78.01	37,436	4.79	9.45	72,488	89.95	87.46
Boulder	Mining	35,052	81.39	74.77	37,436	4.79	9.45	72,488	86.17	84.22
Bounty	Mining	35,052	136.62	122.11	37,436	4.79	9.45	72,488	141.41	131.56
West Kalgoorlie	Mining	35,052	74.11	68.53	37,436	4.79	9.45	72,488	78.90	77.98
Albany	Mixed	35,052	77.33	71.29	37,436	11.26	15.00	72,488	88.59	86.29
Boddington	Mixed	35,052	35.58	35.50	37,436	11.26	15.00	72,488	46.84	50.50
Bunbury Harbour	Mixed	35,052	37.08	36.79	37,436	11.26	15.00	72,488	48.34	51.79
Busselton	Mixed	35,052	62.90	58.92	37,436	11.26	15.00	72,488	74.16	73.92
Byford	Mixed	35,052	37.65	37.28	37,436	11.26	15.00	72,488	48.91	52.28
Capel	Mixed	35,052	50.39	48.20	37,436	11.26	15.00	72,488	61.65	63.20
Darlington	Mixed	35,052	44.22	42.91	37,436	11.26	15.00	72,488	55.48	57.91
Eneabba	Mixed	35,052	58.48	55.13	37,436	11.26	15.00	72,488	69.74	70.13
Geraldton	Mixed	35,052	65.96	61.55	37,436	11.26	15.00	72,488	77.22	76.55
Muchea	Mixed	35,052	38.97	38.41	37,436	11.26	15.00	72,488	50.23	53.41
Northam	Mixed	35,052	55.28	52.39	37,436	11.26	15.00	72,488	66.54	67.39
Picton	Mixed	35,052	41.96	40.97	37,436	11.26	15.00	72,488	53.22	55.97
Sawyers Valley	Mixed	35,052	57.31	54.13	37,436	11.26	15.00	72,488	68.57	69.13
Southern Cross	Mixed	35,052	106.32	96.14	37,436	11.26	15.00	72,488	117.58	111.14
Yanchep	Mixed	35,052	37.41	37.07	37,436	11.26	15.00	72,488	48.67	52.07
Yilgarn	Mixed	35,052	76.05	70.19	37,436	11.26	15.00	72,488	87.31	85.19
Beenup	Rural	35,052	73.63	68.11	37,436	5.19	9.80	72,488	78.82	77.91
Bridgetown	Rural	35,052	46.07	44.49	37,436	5.19	9.80	72,488	51.26	54.29
Carrabin	Rural	35,052	81.60	74.95	37,436	5.19	9.80	72,488	86.79	84.75
Collie	Rural	35,052	67.57	62.93	37,436	5.19	9.80	72,488	72.77	72.73
Coolup	Rural	35,052	74.64	68.99	37,436	5.19	9.80	72,488	79.84	78.79
Cunderdin	Rural	35,052	71.46	66.26	37,436	5.19	9.80	72,488	76.65	76.06
Katanning	Rural	35,052	82.18	75.45	37,436	5.19	9.80	72,488	87.38	85.25
Kellerberrin	Rural	35,052	74.23	68.63	37,436	5.19	9.80	72,488	79.42	78.43
Kojonup	Rural	35,052	47.22	45.48	37,436	5.19	9.80	72,488	52.41	55.28
Kondinin	Rural	35,052	52.60	50.09	37,436	5.19	9.80	72,488	57.79	59.89
Manjimup	Rural	35,052	49.20	47.18	37,436	5.19	9.80	72,488	54.40	56.98
Margaret River	Rural	35,052	83.16	76.29	37,436	5.19	9.80	72,488	88.35	86.09
Merredin	Rural	35,052	66.75	62.22	37,436	5.19	9.80	72,488	71.95	72.02
Moora	Rural	35,052	57.62	54.39	37,436	5.19	9.80	72,488	62.81	64.19

Narrogin	Rural	35,052	92.79	84.54	37,436	5.19	9.80	72,488	97.99	94.34
Pinjarra	Rural	35,052	42.66	41.57	37,436	5.19	9.80	72,488	47.85	51.37
Quinninup	Rural	35,052	141.88	126.62	37,436	5.19	9.80	72,488	147.07	136.42
Regans	Rural	35,052	51.30	48.98	37,436	5.19	9.80	72,488	56.49	58.78
Three Springs	Rural	35,052	58.58	55.22	37,436	5.19	9.80	72,488	63.78	65.02
Wagerup	Rural	35,052	37.84	37.44	37,436	5.19	9.80	72,488	43.04	47.24
Wagin	Rural	35,052	61.13	57.40	37,436	5.19	9.80	72,488	66.32	67.20
Wundowie	Rural	35,052	59.83	56.29	37,436	5.19	9.80	72,488	65.03	66.09
Yornup	Rural	35,052	101.72	92.20	37,436	5.19	9.80	72,488	106.91	102.00
Arkana	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Aust Paper Mills	Urban	35,052	39.27	38.67	37,436	1.34	6.50	72,488	40.61	45.17
Beechboro	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Belmont	Urban	35,052	39.88	39.19	37,436	1.34	6.50	72,488	41.23	45.69
British Petroleum	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Canning Vale	Urban	35,052	38.82	38.28	37,436	1.34	6.50	72,488	40.17	44.78
Chapman	Urban	35,052	66.00	61.58	37,436	1.34	6.50	72,488	67.34	68.08
Clarence St	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Cockburn Cement	Urban	35,052	36.07	35.92	37,436	1.34	6.50	72,488	37.41	42.42
Collier	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Cottesloe	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Edmund St	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Forrestfield	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Gosnells	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Hadfields	Urban	35,052	40.64	39.84	37,436	1.34	6.50	72,488	41.98	46.34
Herdsman Parade	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Joel Terrace	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Kalamunda	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Landsdale	Urban	35,052	40.27	39.53	37,436	1.34	6.50	72,488	41.62	46.03
Malaga	Urban	35,052	39.17	38.59	37,436	1.34	6.50	72,488	40.52	45.09
Mandurah	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Manning	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Mason Road (local)	Urban	35,052	32.23	32.64	37,436	1.34	6.50	72,488	33.58	39.14
Medical Centre	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Medina	Urban	35,052	33.62	33.83	37,436	1.34	6.50	72,488	34.97	40.33
Midland Junction	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Morley	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Mullaloo	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Mundaring Weir	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Myaree	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Nedlands	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
North Beach	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
North Fremantle	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
North Perth	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
O'Connor	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Osborne Park	Urban	35,052	40.13	39.40	37,436	1.34	6.50	72,488	41.47	45.90
Piccadilly	Urban	35,052	75.35	69.59	37,436	1.34	6.50	72,488	76.69	76.09
Riverton	Urban	35,052	39.87	39.18	37,436	1.34	6.50	72,488	41.21	45.68
Rivervale	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38

Rockingham	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Shenton Park	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
South Fremantle	Urban	35,052	40.35	39.59	37,436	1.34	6.50	72,488	41.69	46.09
Tate St	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
University	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Victoria Park	Urban	35,052	40.54	39.75	37,436	1.34	6.50	72,488	41.88	46.25
Wanneroo	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Welshpool	Urban	35,052	40.28	39.54	37,436	1.34	6.50	72,488	41.63	46.04
Wembley Downs	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38
Yokine	Urban	35,052	40.68	39.88	37,436	1.34	6.50	72,488	42.02	46.38

### High Voltage Contract Maximum Demand (CMD-HV) – (Continued)

The demand-length components of the distribution network charges apply to the following tariffs (where the CMD or metered demand is greater than 1000 kVA):

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

#### *High Voltage Distribution Network Charge - 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

#### *High Voltage Distribution Network Charge - 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

## 8. Low Voltage Contract Maximum Demand (CMD-LV)

The prices for access for customers connected to the LV network and with demands greater than 1MVA are the same as the CMD-HV tariff with an additional factor to cover the cost of the transformers and LV circuits.

### *Additional LV Charge*

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

## 9. Street Lighting

These prices apply to Western Power streetlights.

### Network Use of System (Access) Prices

	Fixed \$/annum	Anytime Energy c/kWh
<b>Transmission</b>	0	0.75
<b>Distribution</b>	6.50	1.93
<b>Bundled Tariff</b>	6.5	2.68

### 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 Western Power unmetered supplies.

### Network Use of System (Access) Prices

	Fixed \$/annum	Anytime Energy c/kWh
<b>Transmission</b>	0	0.49
<b>Distribution</b>	40	2.3
<b>Bundled Tariff</b>	40	2.79

## 11. Metering Charges

Metering charges apply to the following tariffs:

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

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

Metering charge for Transmission connection:

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

## 12. Administration Charges

Administration charges apply only to the HV and LV CMD tariffs as follows:

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

### 13. Transmission Nodal Prices

These prices apply to customers with embedded generators and customers connected directly to the Transmission network at 66kV or above .

#### Prices For South West Transmission Network - Existing Exit Points in 2002/03

Notes:

[1] \* denotes the actual charge is to be determined subject to the specific connection arrangements.

[2] The average connection price shown below does not include the Control System Service charge and is only applicable to users with embedded generators.

[3] Connection charges for users with a point of supply at 66kV or above are to be determined subject to the specific connection arrangements.

Substation	Connection \$/kW (See Notes [2] & [3])	Use of System \$/kW	Common Service \$/kW	Total \$/kW
Albany	13.89	41.09	14.29	69.26
Amherst	13.89	10.43	14.29	38.61
Arkana	13.89	12.76	14.29	40.93
Australian Fused Materials	*	6.35	14.29	*
Australian Paper Mills	13.89	13.76	14.29	41.93
Baandee	13.89	46.23	14.29	74.40
Beechboro	13.89	12.26	14.29	40.43
Beenup	13.89	46.77	14.29	74.95
Belmont	13.89	12.33	14.29	40.50
Black Flag	13.89	53.84	14.29	82.02
Boddington ALCOA	13.89	9.05	14.29	37.22
Boddington Reynolds	13.89	9.55	14.29	37.72
Boulder	13.89	50.18	14.29	78.35
Bounty	13.89	91.87	14.29	120.04
Bridgetown	13.89	19.95	14.29	48.12
British Petroleum	13.89	18.14	14.29	46.31
Broken Hill Kwinana	*	15.70	14.29	*
Bunbury Harbour	13.89	9.89	14.29	38.07
Burswood Island Casino	*	30.64	14.29	*
Busselton	13.89	32.69	14.29	60.87
Byford	13.89	10.82	14.29	38.99
Canning Vale	13.89	10.93	14.29	39.10
Capel	13.89	20.98	14.29	49.16
Carrabin	13.89	56.33	14.29	84.50
Cataby Kerr McGee	*	22.71	14.29	*
Chapman	13.89	38.79	14.29	66.97

<b>Substation</b>	<b>Connection \$/kW (See Notes [2] &amp; [3])</b>	<b>Use of System \$/kW</b>	<b>Common Service \$/kW</b>	<b>Total \$/kW</b>
Clarence Street	13.89	23.13	14.29	51.31
Cockburn Cement	13.89	7.17	14.29	35.34
Cockburn Cement Ltd	*	6.75	14.29	*
Collie	13.89	41.25	14.29	69.42
Collier	13.89	20.13	14.29	48.31
Cook Street	13.89	17.41	14.29	45.58
Coolup	13.89	45.84	14.29	74.01
Cottesloe	13.89	15.37	14.29	43.54
Cunderdin	13.89	40.45	14.29	68.62
Darlington	13.89	14.95	14.29	43.13
Edgewater	*	12.78	14.29	*
Edmund Street	13.89	12.95	14.29	41.13
Eneabba	13.89	27.46	14.29	55.63
Forrest Ave	13.89	17.41	14.29	45.58
Forrestfield	13.89	14.34	14.29	42.51
Geraldton	13.89	33.09	14.29	61.27
Golden Grove	*	85.83	14.29	*
Gosnells	13.89	11.82	14.29	39.99
Hadfields	13.89	13.27	14.29	41.44
Hay Street	13.89	17.41	14.29	45.58
Herdsmen Parade	13.89	20.69	14.29	48.87
Joel Terrace	13.89	18.15	14.29	46.33
Kalamunda	13.89	14.14	14.29	42.32
Katanning	13.89	44.37	14.29	72.54
Kellerberrin	13.89	44.33	14.29	72.50
Kojonup	13.89	14.10	14.29	42.27
Kondinin Local	13.89	18.35	14.29	46.53
Kwinana Alcoa	*	2.51	14.29	*
Kwinana Power Partnership	*	4.00	14.29	*
Landsdale	13.89	12.94	14.29	41.11
Malaga	13.89	12.76	14.29	40.93
Mandurah	13.89	14.15	14.29	42.33
Manjimup	13.89	25.69	14.29	53.87
Manning Street	13.89	13.41	14.29	41.59
Margaret River	13.89	53.30	14.29	81.47
Marriott Road Barrack Silicon Smelter	*	10.92	14.29	*
Marriott Road Local	13.89	9.97	14.29	38.14
Mason Road (local)	13.89	4.00	14.29	32.17
Mason Road CSBP	*	7.13	14.29	*
Mason Road Hismelt	*	21.37	14.29	*
Mason Road Kerr McGee	*	4.00	14.29	*
Medical Centre	13.89	17.52	14.29	45.69

<b>Substation</b>	<b>Connection \$/kW (See Notes [2] &amp; [3])</b>	<b>Use of System \$/kW</b>	<b>Common Service \$/kW</b>	<b>Total \$/kW</b>
Medina	13.89	5.74	14.29	33.91
Merredin 66kV	13.89	37.73	14.29	65.90
Midland Junction	13.89	17.39	14.29	45.56
Milligan Street	13.89	17.41	14.29	45.58
Moora	13.89	22.85	14.29	51.03
Morley	13.89	13.45	14.29	41.62
Mt Barker	*	41.09	14.29	*
Muchea Kerr McGee	*	18.12	14.29	*
Muchea Local	13.89	12.51	14.29	40.68
Mullaloo	13.89	12.94	14.29	41.11
Mundaring Weir	13.89	27.32	14.29	55.50
Myaree	13.89	16.66	14.29	44.84
Narrogin	13.89	62.68	14.29	90.85
Nedlands	13.89	15.32	14.29	43.50
North Beach	13.89	13.25	14.29	41.42
North Fremantle	13.89	15.00	14.29	43.17
North Perth	13.89	11.37	14.29	39.55
Northam 66kV	13.89	27.04	14.29	55.21
O'Connor	13.89	14.66	14.29	42.83
Osborne Park	13.89	14.33	14.29	42.51
Piccadilly	13.89	48.12	14.29	76.29
Picton 66	13.89	12.99	14.29	41.17
Pinjarra	13.89	12.65	14.29	40.82
Pinjarra ALCOA	*	20.89	14.29	*
Quinninup	13.89	103.97	14.29	132.15
Regans	13.89	22.71	14.29	50.88
Riverton	13.89	9.89	14.29	38.06
Rivervale	13.89	24.67	14.29	52.85
Rockingham	13.89	7.72	14.29	35.90
Sawyers Valley	13.89	31.84	14.29	60.01
Shenton Park	13.89	15.42	14.29	43.59
South Fremantle 66kV	13.89	10.43	14.29	38.61
Southern Cross	13.89	65.08	14.29	93.26
Summer St	*	24.13	14.29	*
Tate Street	13.89	20.02	14.29	48.19
Three Springs	13.89	23.39	14.29	51.56
Tomlinson Street	*	24.15	14.29	*
University	13.89	18.16	14.29	46.33
Victoria Park	13.89	19.43	14.29	47.60
Wagerup	13.89	9.24	14.29	37.41
Wagin	13.89	27.57	14.29	55.75
Wanneroo	13.89	11.62	14.29	39.80
WEB Grating	*	97.98	14.29	*

<b>Substation</b>	<b>Connection \$/kW (See Notes [2] &amp; [3])</b>	<b>Use of System \$/kW</b>	<b>Common Service \$/kW</b>	<b>Total \$/kW</b>
Wellington Street	13.89	17.41	14.29	45.58
Welshpool	13.89	12.47	14.29	40.64
Wembley Downs	13.89	16.19	14.29	44.37
West Kalgoorlie	13.89	42.24	14.29	70.41
Western Collieries	*	4.69	14.29	*
Western Mining	*	4.99	14.29	*
Westralian Sands	*	18.94	14.29	*
Worsley	*	6.95	14.29	*
Wundowie	13.89	29.03	14.29	57.20
Yanchep	13.89	10.53	14.29	38.70
Yerbillon	13.89	54.16	14.29	82.34
Yilgarn	13.89	42.30	14.29	70.47
Yokine	13.89	12.98	14.29	41.15
Yornup	13.89	75.89	14.29	104.06

### Prices For South West Transmission Network - Existing Entry Points in 2002/03

Notes:

[1] \* denotes the charge is to be determined subject to the specific connection arrangements.

<b>Substation</b>	<b>Total Connection Charge \$k</b>	<b>Use of System \$/kW</b>
Boulder	*	5.42
Collie	611.32	8.70
Geraldton	*	1.50
Kwinana Power Partnership	*	4.90
Kwinana	1,242.32	5.19
Muja	1,789.21	8.34
Mungarra	358.12	8.16
Pinjar	930.96	4.26
Pinjarra Alcoa	*	9.11
Tiwest	*	4.50
Wagerup	*	5.92
West Kalgoorlie	*	5.32
Worsley	*	6.59

## 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

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

## 16. Distribution Excess Network Usage Factor

The excess network usage factor is 1.5.

## 17. Ancillary Services Prices in 2002/03

### 17.1. Spinning Reserve Prices

GENERATOR UNIT MAXIMUM NET OUTPUT (MW)	PRICE (\$/h)
<10	NIL
10-45	4.68
46-65	10.61
66-125	58.73
126-250	111.14
>250	237.56

The purchase price for interruptible load is \$53,136/MW

### 17.2. Post Trip Management Prices

The post-trip management charge is no longer applicable to generators.

### 17.3. Control System Service Price

The Control System Service price is \$3.71/kW for load and \$0.59/kW for generator. Load CMD and generator unit maximum net output are used to calculate the Control System Service charge. For a connection with on site load 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 net output.

The Control System Service charge is included in the connection charge for entry existing connections.

### 17.4. Energy Balancing Prices

For the current prices refer to the web page:

[http://www.westernpower.com.au/commercial\\_customers/network\\_access](http://www.westernpower.com.au/commercial_customers/network_access)

### 17.5 Standby Generation Capacity Price

The Standby Generation Capacity Price is \$16/kW

### 17.6 Excess Standby Generation Capacity Price

The Excess Standby Generation Capacity price is \$19.51/kW/excess demand period.