

Network Access Prices For Western Power's North West Interconnected Networks From 1 September 2001

This document provides network access prices for the 2001/2002 financial year for the north-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 eight bundled network tariffs is provided to facilitate access to all customers connected to the distribution network:

- Anytime Energy (Small)
- Anytime Energy (Large)
- 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

Transmission nodal access prices continue to apply to customers connected directly to the 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 presented in this document.

Distribution charges for generation access will be determined individually by the Distribution network business, based on the current approaches detailed in the respective pricing papers.

1. Anytime Energy Tariff (Small)

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

	Fixed \$/annum	Anytime Energy c/kWh
Transmission	0	2.1
Distribution	75	3.6
Bundled Tariff	75	5.7

2. Anytime Energy Tariff (Large)

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

	Fixed \$/annum	Anytime Energy c/kWh
Transmission	0	2.25
Distribution	75	3.05
Bundled Tariff	75	5.30

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 300,000kWh.

	Fixed \$/annum	On Peak Energy c/kWh	Off Peak Energy c/kWh
Transmission	0	3.7	0.5
Distribution	75	5.9	1.3
Bundled Tariff	75	9.6	1.8

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 300,000kWh and maximum annual peak demand of less than 1000 kVA.

	Fixed \$/annum	On Peak Energy c/kWh	Off Peak Energy c/kWh
Transmission	0	3.1	0.5
Distribution	100	2.95	0.75
Bundled Tariff	100	6.05	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	85	150	70	150	155
300 to 1000	25,500	65	21,150	45	46,650	110
1000 to 1500	71,000	25	52,650	15	123,650	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	85	200	81	200	166
300 to 1000	25,500	65	24,500	56	50,000	121
1000 to 1500	71,000	25	63,700	26	134,700	51

(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_{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)
ANDERSON ST	Pilbara	57,587	55.30	55.63	37,820	3.50	8.40	95,407	58.80	64.03
BULGARRA	Pilbara	57,587	77.59	74.73	37,820	3.50	8.40	95,407	81.09	83.13
DAMPIER	Pilbara	57,587	75.82	73.21	37,820	3.50	8.40	95,407	79.31	81.61
MURDOCK	Pilbara	57,587	50.07	51.15	37,820	3.50	8.40	95,407	53.57	59.55
PEGS CREEK	Pilbara	57,587	70.90	69.00	37,820	3.50	8.40	95,407	74.40	77.40
ROEBOURNE	Pilbara	57,587	59.79	59.47	37,820	3.50	8.40	95,407	63.28	67.87
SAMSON	Pilbara	57,587	59.79	59.47	37,820	3.50	8.40	95,407	63.28	67.87
WEDGEFIELD	Pilbara	57,587	48.07	49.43	37,820	3.50	8.40	95,407	51.56	57.83
WICKHAM	Pilbara	57,587	59.79	59.47	37,820	3.50	8.40	95,407	63.28	67.87
Cape Lambert	Pilbara	57,587	59.79	59.47	37,820	3.50	8.40	95,407	63.28	67.87

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)
Pilbara	2.275	1.593

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)
Pilbara	1.95	1.365

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	11.00/kVA

9. Transmission Nodal Prices

These prices apply to customers connected directly to the Transmission network.

Prices For North West Transmission Network - Existing Exit Points in 2001/02

Substation	Connection \$/kW	Use of System \$/kW	Common Service \$/kW	Total \$/kW
Anderson Street	29.03	12.37	28.13	69.53
Bulgarra	29.03	36.26	28.13	93.42
Cape Lambert Terminal	29.03	17.18	28.13	74.34
Dampier	29.03	34.35	28.13	91.51
Goldsworthy	*	290.30	28.13	*
Murdoch Drive	*	6.77	28.13	*
Mt Newman	*	14.38	28.13	*
Pegs Creek	29.03	29.09	28.13	86.25
Strelley	29.03	74.86	28.13	132.02
Wedgfield	*	4.62	28.13	*

Notes:

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

[2] The above average connection price is only applicable to users with a point of supply at 33kV or below.

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

Prices For North West Transmission Network - Existing Entry Points in 2001/02

Substation	Total Connection Charge \$k
Lambert Power Station	*
Dampier	*
Murdoch Drive	*
Wedgfield	*

Notes:

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

[2] There is no UOS charge to Entry Points in the North West Transmission Network

10. 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	\$9,725
Meter with tariff metering CT/VT @ <66kV	\$2,000

11. Administration Charges

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

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

12. 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.

13. Transmission Excess Network Usage Factor

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

14. Distribution Excess Network Usage Factor

The excess network usage factor is 1.5.