

Summary

Optimised Deprival Valuation

Date 31/03/2004

Asset Description	Number of Units	Units	Standard Replacement Cost (\$)	Standard Life (Years)	WAREL (Years)	Total Replacement Value (\$)	Total Adjusted Replacement Value (\$)	Total Optimised Replacement Value (incl multipliers) (\$)	E/V Adj Optimised Replacement Value (\$)	Depreciation Provision (\$)	ODRC (\$)
Sub Transmission											
33kV O/H Lines - Heavy (>= 150mm2,<= 300mm2 AL)	44.125	km	61000	56.8	35.12	2,691,625.00	2,725,881.20	2,725,881.20	2,725,881.20	1,041,273.59	1,684,607.61
33kV O/H Lines - Medium (>=50mm2,<150mm2 AL)	164.201	km	45000	48.7	14.36	7,389,045.00	9,290,717.10	9,290,717.10	9,290,717.10	6,553,664.79	2,737,052.31
33kV O/H Lines - Light (< 50mm2 AL)	98.094	km	45000	46.9	11.42	4,414,230.00	5,026,140.40	5,026,140.40	5,026,140.40	3,804,129.54	1,222,010.86
33kV U/G Cables (<= 240mm2 AL) XLPE	2.501	km	175000	45	20.67	437,675.00	438,317.00	438,317.00	438,317.00	237,021.66	201,295.34
Switchgear - 33kV Isolation	35.000	Number	9000	35	9.22	315,000.00	374,400.00	374,400.00	374,400.00	275,772.54	98,627.46
	343.921					15,247,575.00	17,855,455.70	17,855,455.70	17,855,455.70	11,911,862.12	5,943,593.58
Zone Substations											
Substation - Land	11.000	Number	Not Assigned	1E+1		1,000,000.00	155,250.00	154,007.00	154,007.00	0.00	154,007.00
Substation - Site Development and Buildings	113.000	Number	Not Assigned	50	37.14	1,808,715.00	1,808,715.00	1,772,340.00	1,772,340.00	455,993.37	1,316,346.63
Substation - Transformers	35.000	Number	Not Assigned	60	45.37	5,277,440.00	5,277,440.00	5,130,040.00	5,130,040.00	1,250,519.06	3,879,520.94
Substation - 33kV Indoor Switchgear Cubicle	1.000	Number	50000	45	36.50	444,440.00	444,440.00	444,440.00	444,440.00	83,990.37	360,449.63
Substation - 33kV Bus Section/Coupler Indoor Switchgear	1.000	Number	55000	45	43.17	55,000.00	55,000.00	55,000.00	55,000.00	2,240.18	52,759.82
Substation - 33kV Outdoor Circuit Breakers	11.000	Number	45000	40	25.78	720,000.00	720,000.00	720,000.00	720,000.00	255,877.40	464,122.60
Substation - 22/11kV Indoor Switchgear Cubicle	12.000	Number	30000	45	31.29	900,000.00	900,000.00	870,000.00	870,000.00	265,081.28	604,918.72
Substation - 22/11kV Outdoor Circuit Breakers	20.000	Number	27000	40	19.22	837,000.00	837,000.00	783,000.00	783,000.00	406,862.26	376,137.74
Substation - Incoming Outdoor Switchgear	29.000	Number	Not Assigned	40	19.89	378,850.00	378,850.00	368,600.00	368,600.00	185,280.01	183,319.99
Substation - Transformer Outdoor Switchgear	2.000	Number	Not Assigned	40	36.67	16,000.00	16,000.00	12,000.00	12,000.00	1,000.27	10,999.73
Substation - Feeder Outdoor Switchgear	17.000	Number	Not Assigned	40	18.35	110,850.00	110,850.00	108,550.00	108,550.00	58,744.58	49,805.42
Substation - Incoming Circuit Protection and Controls	75.000	Number	Not Assigned	40	20.15	340,208.00	340,208.00	321,047.00	321,047.00	159,303.32	161,743.68
Substation - Transformer Protection and Controls	32.000	Number	Not Assigned	40	22.17	172,750.00	172,750.00	161,952.50	161,952.50	72,196.72	89,755.78
Substation - Feeder Protection and Controls	26.000	Number	Not Assigned	40	20.40	280,694.00	280,694.00	274,302.00	274,302.00	134,385.93	139,916.07
Substation - Bus Section/Coupler Protection and Controls	8.000	Number	Not Assigned	40	34.47	71,231.00	71,231.00	71,231.00	71,231.00	9,856.49	61,374.51
Substation - Outdoor Structure	179.000	Number	Not Assigned	45	32.88	556,772.00	556,772.00	526,224.00	526,224.00	141,740.44	384,483.56
Substation - SCADA and Communications Equipment	74.000	Number	Not Assigned	15	6.17	672,864.00	672,864.00	658,489.00	658,489.00	387,719.36	270,769.64
Substation - Ripple Injection Plant	11.000	Number	Not Assigned	20	12.70	1,119,104.00	1,119,104.00	1,119,104.00	1,119,104.00	408,417.16	710,686.84
Substation - DC Supplies, Batteries and Inverters	28.000	Number	Not Assigned	20	6.86	108,744.00	108,744.00	108,744.00	108,744.00	71,439.95	37,304.05
Substation - Other Items	8.000	Number	Not Assigned	40	28.92	53,505.00	53,505.00	53,505.00	53,505.00	14,823.10	38,681.90
	693.000					14,079,417.00	14,079,417.00	13,712,575.50	13,712,575.50	4,365,471.26	9,347,104.24
Distribution Lines											
22kV O/H Lines - Medium (> 50mm2, < 150mm2 AL)	28.196	km	29000	48.8	26.82	817,684.00	1,032,924.20	1,032,924.20	1,032,924.20	465,231.34	567,692.86
22kV O/H Lines - Light (< 50mm2 AL)	70.759	km	27000	46.7	29.55	1,910,493.00	2,306,672.95	2,286,941.13	2,286,941.13	840,018.57	1,446,922.57
22kV O/H Lines - Single Phase or SWER lines	12.911	km	24000	45.9	22.87	309,864.00	389,591.60	389,591.60	389,591.60	195,774.87	193,816.73
11kV O/H Lines - Heavy (>= 150mm2,<= 300mm2 AL)	23.748	km	31000	46.2	35.38	736,188.00	834,942.70	834,739.18	834,739.18	195,925.59	638,813.59
11kV O/H Lines - Medium (> 50mm2, < 150mm2 AL)	331.525	km	28000	47.8	26.81	9,282,700.00	10,455,529.10	10,430,381.68	10,430,381.68	4,581,158.04	5,849,223.63
11kV O/H Lines - Light (< 50mm2 AL)	1,351.128	km	25000	46.4	21.80	33,778,200.00	38,209,899.60	37,610,761.09	37,610,761.09	19,966,240.46	17,644,520.62
11kV O/H Lines - Single Phase or SWER lines	1,117.111	km	21000	45.5	20.25	23,459,331.00	27,858,737.00	27,858,737.00	27,858,737.00	15,479,476.37	12,379,260.63
11kV O/H Lines - Double Circuit Medium	8.553	km	42000	45	9.48	359,226.00	385,870.80	385,870.80	385,870.80	304,570.58	81,300.22
11kV O/H Lines - Double Circuit Light	1.945	km	38000	45	18.20	73,910.00	102,384.20	102,384.20	102,384.20	60,970.16	41,414.04

Monday, 28 April 2008 3:03 p.m.

Asset Description	Number of Units	Units	Standard Replacement Cost (\$)	Standard Life (Years)	WAREL (Years)	Total Replacement Value (\$)	Total Adjusted Replacement Value (\$)	Total Optimised Replacement Value (incl multipliers) (\$)	E/V Adj Optimised Replacement Value (\$)	Depreciation Provision (\$)	ODRC (\$)
11kV O/H Lines - Underbuilt Heavy	7.091	km	15000	54.5	26.55	106,365.00	110,601.00	110,601.00	110,601.00	56,768.42	53,832.58
11kV O/H Lines - Underbuilt Medium	33.839	km	14000	54.3	34.22	473,746.00	526,570.80	516,289.03	516,289.03	191,004.82	325,284.20
11kV O/H Lines - Underbuilt Light	73.180	km	12000	47.4	12.49	878,160.00	1,103,964.00	1,079,964.86	1,079,964.86	795,521.73	284,443.14
	3,059.986					72,185,867.00	83,317,687.95	82,639,185.77	82,639,185.77	43,132,660.97	39,506,524.80
Distribution Cables											
22kV U/G Cables Light(<50mm2) XLPE	4.034	km	94000	45	42.17	379,196.00	380,864.00	380,864.00	380,864.00	23,983.66	356,880.34
22kV U/G Cables Light(<50mm2) PILC	0.144	km	94000	70	66.75	13,536.00	13,536.00	13,536.00	13,536.00	628.46	12,907.54
11kV U/G Cables Heavy (> 240mm2, <=300mm2 AL) XLPE	1.896	km	125000	45	36.20	237,000.00	249,432.00	249,432.00	249,432.00	48,792.61	200,639.39
11kV U/G Cables Heavy (> 240mm2, <=300mm2 AL) PILC	0.397	km	125000	70	60.73	49,625.00	52,007.00	52,007.00	52,007.00	6,887.21	45,119.79
11kV U/G Cables Medium (>50mm2, <=240mm2 AL) XLPE	14.033	km	103000	45	32.22	1,445,399.00	1,480,736.00	1,480,736.00	1,480,736.00	420,523.64	1,060,212.36
11kV U/G Cables Medium (>50mm2, <=240mm2 AL) PILC	41.460	km	103000	70	48.63	4,270,380.00	4,444,908.00	4,444,908.00	4,444,908.00	1,356,956.61	3,087,951.39
11kV U/G Cables Light(<50mm2) XLPE	51.455	km	81000	45	38.26	4,167,855.00	4,194,024.00	4,194,024.00	4,194,024.00	627,907.54	3,566,116.46
11kV U/G Cables Light(<50mm2) PILC	5.135	km	81000	70	46.84	415,935.00	421,818.00	421,818.00	421,818.00	139,590.80	282,227.20
	118.554					10,978,926.00	11,237,325.00	11,237,325.00	11,237,325.00	2,625,270.53	8,612,054.47
Distribution Switchgear											
Switchgear - 22/11kV Disconnecter 3 ph (Excl Pole)	302.000	Number	3500	35	8.83	1,057,000.00	1,132,250.00	1,132,250.00	1,132,250.00	846,498.36	285,751.64
Switchgear - 22/11kV Disconnecter 2 ph (Excl Pole)	3.000	Number	2500	35	7.48	7,500.00	9,000.00	9,000.00	9,000.00	7,075.30	1,924.70
Switchgear - 22/11kV Load Break Switch (Excl Pole)	16.000	Number	6500	35	20.75	104,000.00	107,250.00	107,250.00	107,250.00	43,680.76	63,569.24
Switchgear - 22/11kV Dropout Fuse 3 ph (Excl Pole)	576.000	Number	2500	35	18.60	1,440,000.00	1,609,750.00	1,609,750.00	1,609,750.00	754,290.29	855,459.71
Switchgear - 22/11kV Dropout Fuse 2 Phase (Excl Pole)	298.000	Number	2000	35	18.93	596,000.00	685,300.00	685,300.00	685,300.00	314,690.90	370,609.10
Switchgear - 22/11kV Circuit Breaker	22.000	Number	27000	40	26.62	594,000.00	637,200.00	637,200.00	637,200.00	213,080.67	424,119.33
Switchgear - 22/11kV Sectionalizers (Excl Pole)	5.000	Number	18000	40	7.48	90,000.00	104,400.00	104,400.00	104,400.00	84,878.63	19,521.37
Switchgear - 22/11kV Recloser (Excl Pole)	22.000	Number	27000	40	7.48	594,000.00	649,350.00	649,350.00	649,350.00	527,930.45	121,419.55
Switchgear - Voltage Regulator	11.000	Number	Not Assigned	55	0.00	332,000.00	332,000.00	332,000.00	332,000.00	70,400.00	261,600.00
-Switchgear - Ring Main Unit 3 way	126.000	Number	16000	40	23.76	2,016,000.00	2,016,000.00	2,016,000.00	2,016,000.00	818,508.49	1,197,491.51
Switchgear - Extra Oil Switch	47.000	Number	6000	40	22.97	282,000.00	289,500.00	289,500.00	289,500.00	123,230.14	166,269.86
Switchgear - Transformer Fuse (Excl Pole)	5,610.000	Number	1500	35	13.98	8,415,000.00	8,415,000.00	8,415,000.00	8,415,000.00	5,054,307.12	3,360,692.88
Switchgear - Extra Fuse Switch	37.000	Number	8000	40	22.45	296,000.00	304,000.00	304,000.00	304,000.00	133,375.07	170,624.93
	7,075.000					15,823,500.00	16,291,000.00	16,291,000.00	16,291,000.00	8,991,946.19	7,299,053.81
Distribution Transformer											
Transformers 11/22kV - Single Phase <=15kVA	3,033.000	Number	2600	45	20.98	7,885,800.00	7,885,800.00	7,885,800.00	7,885,800.00	4,208,478.29	3,677,321.71
Transformers 11/22kV - Single Phase 30kVA	568.000	Number	3300	45	23.46	1,874,400.00	1,874,400.00	1,874,400.00	1,874,400.00	897,410.45	976,989.55
Transformers 11/22kV - Single Phase 50kVA	43.000	Number	4000	45	28.29	172,000.00	172,000.00	172,000.00	172,000.00	63,870.93	108,129.07
Transformers 22kV - Three Phase 30kVA	11.000	Number	6000	45	42.98	66,000.00	66,000.00	66,000.00	66,000.00	2,961.83	63,038.17
Transformers 22kV - Three Phase 50kVA	32.000	Number	8000	45	43.08	256,000.00	256,000.00	256,000.00	256,000.00	10,924.32	245,075.68
Transformers 22kV - Three Phase 100/kVA	17.000	Number	10000	45	43.17	170,000.00	170,000.00	170,000.00	170,000.00	6,930.74	163,069.26
Transformers 22kV - Three Phase 200kVA	19.000	Number	15000	55	53.11	285,000.00	285,000.00	285,000.00	285,000.00	9,780.56	275,219.44
Transformers 11kV - Three Phase 30kVA	880.000	Number	5000	45	24.65	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00	1,989,908.68	2,410,091.32
Transformers 11kV - Three Phase 50kVA	639.000	Number	7000	45	25.69	4,473,000.00	4,473,000.00	4,473,000.00	4,473,000.00	1,919,359.94	2,553,640.06
Transformers 11kV - Three Phase 100/kVA	535.000	Number	9000	45	30.34	4,815,000.00	4,815,000.00	4,815,000.00	4,815,000.00	1,569,053.84	3,245,946.16
Transformers 11kV - Three Phase 200kVA	177.000	Number	13000	55	36.10	2,301,000.00	2,301,000.00	2,301,000.00	2,301,000.00	790,599.90	1,510,400.10
Transformers 11kV - Three Phase 300kVA	98.000	Number	16000	55	33.64	1,568,000.00	1,568,000.00	1,568,000.00	1,568,000.00	608,988.81	959,011.19
Transformers 11kV - Three Phase 500kVA	36.000	Number	20000	55	43.78	720,000.00	720,000.00	720,000.00	720,000.00	146,879.37	573,120.63

Monday, 28 April 2008 3:03 p.m.

Asset Description	Number of Units	Units	Standard Replacement Cost (\$)	Standard Life (Years)	WAREL (Years)	Total Replacement Value (\$)	Total Adjusted Replacement Value (\$)	Total Optimised Replacement Value (incl multipliers) (\$)	E/V Adj Optimised Replacement Value (\$)	Depreciation Provision (\$)	ODRC (\$)
*Transformers 22kV - Three Phase Cable Box 100kVA	1.000	Number	10000	55	50.68	10,000.00	10,000.00	10,000.00	10,000.00	785.06	9,214.94
*Transformers 22kV - Three Phase Cable Box 200kVA	3.000	Number	16000	55	44.16	48,000.00	48,000.00	48,000.00	48,000.00	9,462.91	38,537.09
*Transformers 22kV - Three Phase Cable Box 300kVA	3.000	Number	18000	55	46.71	54,000.00	54,000.00	54,000.00	54,000.00	8,140.57	45,859.43
*Transformers 22kV - Three Phase Cable Box 500kVA	6.000	Number	25000	55	46.22	150,000.00	150,000.00	150,000.00	150,000.00	23,943.51	126,056.49
*Transformers 22kV - Three Phase Cable Box 1000kVA	12.000	Number	34000	55	20.07	408,000.00	408,000.00	408,000.00	408,000.00	259,113.03	148,886.97
*Transformers 22kV - Three Phase Cable Box 1500kVA	3.000	Number	53000	55	39.15	159,000.00	159,000.00	159,000.00	159,000.00	45,816.29	113,183.71
	6,116.000					29,815,200.00	29,815,200.00	29,815,200.00	29,815,200.00	12,572,409.03	17,242,790.97
Distribution Substations											
Distribution Substations - Pole Mounted (50kVA or less..)	5,145.000	Number	1000	45	21.72	5,600,450.00	5,600,450.00	5,600,450.00	5,600,450.00	2,897,852.25	2,702,597.75
Distribution Substations - Pole Mounted (100kVA or more..)	609.000	Number	2000	45	26.22	1,315,800.00	1,315,800.00	1,315,800.00	1,315,800.00	549,123.31	766,676.69
Distribution Substations - Ground Mounted (Covered)	293.000	Number	4000	45	27.61	1,230,800.00	1,230,800.00	1,230,800.00	1,230,800.00	475,735.59	755,064.41
Distribution Substations - Kiosk (Masonry or Block Enclosure)	41.000	Number	11000	45	19.59	456,500.00	456,500.00	456,500.00	456,500.00	257,778.22	198,721.78
Distribution Substations - On Customers Premises with Feedout	29.000	Number	2000	45	33.71	59,500.00	59,500.00	59,500.00	59,500.00	14,925.84	44,574.16
	6,117.000					8,663,050.00	8,663,050.00	8,663,050.00	8,663,050.00	4,195,415.20	4,467,634.80
Customer Service Connections											
Low Voltage - Overhead -1ph	8,072.000	Number	70	45	0.00	565,040.00	565,040.00	565,040.00	565,040.00	452,032.00	113,008.00
Low Voltage - Overhead -3ph	965.000	Number	180	45	0.00	173,700.00	173,700.00	173,700.00	173,700.00	96,500.00	77,200.00
Low Voltage - Underground -1ph shared fuse pillar	7,383.000	Number	250	45	0.00	1,845,750.00	1,845,750.00	1,845,750.00	1,845,750.00	820,333.33	1,025,416.67
Low Voltage - Underground -1ph own fuse pillar	7,385.000	Number	500	45	0.00	3,692,500.00	3,692,500.00	3,692,500.00	3,692,500.00	1,641,111.11	2,051,388.89
Low Voltage - Underground -3ph shared fuse pillar	857.000	Number	400	45	0.00	342,800.00	342,800.00	342,800.00	342,800.00	114,266.67	228,533.33
Low Voltage - Underground -3ph own fuse pillar	2,130.000	Number	800	45	0.00	1,704,000.00	1,704,000.00	1,704,000.00	1,704,000.00	568,000.00	1,136,000.00
Low Voltage - Overhead Light 4 wire LV only	7.991	km	38000	45	0.00	303,644.66	303,644.66	303,644.66	303,644.66	222,672.75	80,971.91
Low Voltage - Overhead Light 2 wire LV only	48.123	km	30000	45	0.00	1,443,703.76	1,443,703.76	1,443,703.76	1,443,703.76	1,058,716.09	384,987.67
Low Voltage - Overhead Underbuilt Light 2 wire	160.834	km	14000	45	0.00	2,251,677.57	2,251,677.57	2,251,677.57	2,251,677.57	1,651,230.22	600,447.35
Low Voltage - Underground LV only	218.094	km	63000	45	0.00	13,739,922.09	13,739,922.09	13,739,922.09	13,739,922.09	6,106,632.04	7,633,290.05
Low Voltage - Underground with MV	103.646	km	32000	45	0.00	3,316,671.15	3,316,671.15	3,316,671.15	3,316,671.15	1,474,076.07	1,842,595.09
Low Voltage - Underground Streetlight Circuit (own trench)	7.673	km	30000	45	0.00	230,190.00	230,190.00	230,190.00	230,190.00	102,306.67	127,883.33
Underground Streetlight Circuit (HV trench)	33.595	km	12000	45	0.00	403,140.00	403,140.00	403,140.00	403,140.00	179,173.33	223,966.67
Traffic Management Overhead Class 1	46.265	km	800	45	0.00	37,012.00	37,012.00	37,012.00	37,012.00	27,142.13	9,869.87
Traffic Management Overhead Class 2	12.708	km	1500	45	0.00	19,062.00	19,062.00	19,062.00	19,062.00	13,978.80	5,083.20
Traffic Management Underground Class 1	76.610	km	6000	45	0.00	459,660.00	459,660.00	459,660.00	459,660.00	204,293.33	255,366.67
Traffic Management Underground Class 2	23.320	km	15000	45	0.00	349,800.00	349,800.00	349,800.00	349,800.00	155,466.67	194,333.33
	27,530.859					30,878,273.24	30,878,273.24	30,878,273.24	30,878,273.24	14,887,931.22	15,990,342.02
Relays, VT's and CT's											
Low Voltage Three Phase CT's	468.000	Number	Not Assigned	20	0.00	187,200.00	187,200.00	187,200.00	187,200.00	149,760.00	37,440.00
High Voltage Meter VT and CT	3.000	Number	Not Assigned	20	0.00	36,000.00	36,000.00	36,000.00	36,000.00	26,100.00	9,900.00
	471.000					223,200.00	223,200.00	223,200.00	223,200.00	175,860.00	47,340.00
Other System Fixed Assets											
Other System Fixed Assets	54.000	Number	Not Assigned	Not	0.00	1,647,200.00	1,647,200.00	1,647,200.00	1,647,200.00	596,808.33	1,050,391.67
Steel Towers	30.000	Number	15000	0	0.00	450,000.00	450,000.00	450,000.00	450,000.00	295,000.00	155,000.00
Link Boxes 2 Way	303.000	Number	2000	45	0.00	606,000.00	606,000.00	606,000.00	606,000.00	283,066.79	322,933.21
Link Boxes 4 Way	99.000	Number	4000	45	0.00	396,000.00	396,000.00	396,000.00	396,000.00	184,974.34	211,025.66
	486.000					3,099,200.00	3,099,200.00	3,099,200.00	3,099,200.00	1,359,849.46	1,739,350.54

Monday, 28 April 2008 3:03 p.m.

Asset Description	Number of Units	Units	Standard Replacement Cost (\$)	Standard Life (Years)	WAREL (Years)	Total Replacement Value (\$)	Total Adjusted Replacement Value (\$)	Total Optimised Replacement Value (incl multipliers) (\$)	E/V Adj Optimised Replacement Value (\$)	Depreciation Provision (\$)	ODRC (\$)
						200,994,208.24	215,459,808.89	214,414,465.21	214,414,465.21	104,218,675.97	110,195,789.23