

Project	Project Description	Total Cost Over Regulatory Period (\$000)	Driver	Project duration and expenditure (\$ 000)					Notes	Transformers	Reactors	Capacitors	CBs	% Total Cost by Asset Group				Cables	Non network	SCADA	Land	TOTAL	
				2004/2005	2005/2006	2006/2007	2007/2008	2008/2009						Lines - steel	Lines - wood								
REPLACE 15 ACEC & 24 ASEA - 66KV SA		\$ 10	Asset Replacement			\$ 10	\$ -	\$ -															100
REPLACE 35 ASEA & 1 MAGRINI 66KV CT's		\$ 12	Asset Replacement			\$ 12	\$ -	\$ -					100										100
REPLACE 18 MAGRINI 66KV CT		\$ 16	Asset Replacement			\$ 16	\$ -	\$ -					100										100
REPLACE 27 ASEA & 5 ITALIA 66KV VT's		\$ 58	Asset Replacement			\$ 58	\$ -	\$ -			100												100
REPLACE 54 VARIOUS 66KV VT's		\$ 117	Asset Replacement			\$ 117	\$ -	\$ -			100												100
REPLACE 42 ESANTEE - 6 GALLEO - 22KV CT		\$ 48	Asset Replacement			\$ 48	\$ -	\$ -					100										100
REPLACE 5 - 66KV CBC - GEC OD		\$ 72	Asset Replacement			\$ 72	\$ -	\$ -					100										100
REPLACE 87 AND REMOVE 6 WESTEC 22KV DIS		\$ 22	Asset Replacement			\$ 22	\$ -	\$ -					100										100
REPLACE - TWELVE 66KV CB - DELLE HPGE9		\$ 152	Asset Replacement			\$ 152	\$ -	\$ -					100										100
REPLACE GEM80 CONTROLLERS		\$ 156	Asset Replacement			\$ 1	\$ 155	\$ -					100										100
REPLACE OLD RELAYS - STAGE 2		\$ 394	Asset Replacement			\$ 394	\$ -	\$ -					100										100
CT : FLOODING MITIGATION & ROAD RESTORAT		\$ 0	Asset Replacement			\$ 0	\$ -	\$ -					100										100
REPLACE SOLKOR RELAYS BOTH ENDS SF-ST 81		\$ 159	Asset Replacement			\$ 3	\$ 156	\$ -					100										100
REPLACE 24 66KV CT's & 24 VT's		\$ 106	Asset Replacement			\$ 106	\$ -	\$ -					100										100
CLARENCE ST. S/S : REPLACE 11KV INDOOR		\$ 748	Asset Replacement			\$ 748	\$ -	\$ -					100										100
REPLACE 143 ARIC OIL & WINDING TEMPERAT		\$ 1,305	Asset Replacement			\$ 588	\$ 379	\$ 339					100										100
REPLACE 27 TYREE 66KV CT's		\$ 49	Asset Replacement			\$ 49	\$ -	\$ -					100										100
REPLACE 22KV BUS DISCONNECTORS		\$ 168	Asset Replacement			\$ 96	\$ 72	\$ -					100										100
REPLACE 4 METRO VICKERS 66KV CBCs		\$ 197	Asset Replacement			\$ 197	\$ -	\$ -					100										100
Replace 54 X 66KV SA		\$ 1	Asset Replacement			\$ 1	\$ -	\$ -					100										100
REPLACE 2 GEC FK1-SF6 33KV CBCs		\$ 207	Asset Replacement			\$ 207	\$ -	\$ -					100										100
REPLACE 103 66KV CT - VARIOUS TYPES		\$ 962	Asset Replacement			\$ 428	\$ 534	\$ -					100										100
REPLACE 28 VT 132kv - VARIOUS TYPES		\$ 567	Asset Replacement			\$ 332	\$ 235	\$ -					100										100
REPLACE 3 CAP 11kv DUCON OFT 6411		\$ 535	Asset Replacement			\$ 129	\$ 406	\$ -					100										100
REPLACE 9 CBC 22kv EMAIL W'HOUSE		\$ 444	Asset Replacement			\$ 340	\$ 104	\$ -					100										100
REPLACE 6 CB 330kv BROWN BOVERI		\$ 791	Asset Replacement			\$ 791	\$ -	\$ -					100										100
REPLACE 48 CB 132kv VARIOUS TYPES		\$ 4,108	Asset Replacement			\$ 2,368	\$ 759	\$ 981					100										100
REPLACE 30 3PH 66KV DISCON		\$ 663	Asset Replacement			\$ 216	\$ 353	\$ 94					100										100
REPLACE 42 CB 66kv - VARIOUS TYPES		\$ 2,913	Asset Replacement			\$ 1,344	\$ 774	\$ 795					100										100
REPLACE 105 CT 22kv - VARIOUS TYPES		\$ 393	Asset Replacement			\$ 121	\$ 272	\$ -					100										100
REPLACE 3 CT33kv WESTRALIAN		\$ 33	Asset Replacement			\$ 33	\$ -	\$ -					100										100
DISTANCE RELAY REPLACEMENT PROJ STAGE 1		\$ 179	Asset Replacement			\$ 175	\$ 4	\$ -					100										100
REPLACE 173 SA 132kv - VARIOUS TYPES		\$ 827	Asset Replacement			\$ 201	\$ 334	\$ 293					100										100
POLE STRENGTHENING REINFORCEMENT		\$ 220	Asset Replacement			\$ 63	\$ 73	\$ 84					100										100
POLE REPLACEMENT		\$ 2,397	Asset Replacement			\$ 690	\$ 794	\$ 913					100										100
CANNINGTON TERM: REPLACE CAP 81 REACTORS		\$ 264	Asset Replacement			\$ 264	\$ -	\$ -					100										100
ASSET REPL - PRIMARY - CIRCUIT BREAKERS		\$ 2,215	Asset Replacement			\$ -	\$ -	\$ 2,215					100										100
ASSET REPL - PRIMARY -COMPENSATING BANKS		\$ 51	Asset Replacement			\$ -	\$ -	\$ 51					100										100
ASSET REPL -PRIMARY- CURENT TRANSFORMER		\$ 2,372	Asset Replacement			\$ -	\$ 1,436	\$ 936				100											100
ASSET REPL -PRIMARY- SURGE ARRESTOR		\$ 515	Asset Replacement			\$ -	\$ 257	\$ 257					100										100
ASSET REPL -PRIMARY- SWITCHGEAR		\$ 515	Asset Replacement			\$ -	\$ 257	\$ 257					100										100
ASSET REPL -PRIMARY- SUBSTATIONS		\$ 813	Asset Replacement			\$ -	\$ 407	\$ 407					100										100
ASSET REPL -PRIMARY- VOLTAGE TRANSFORMER		\$ 313	Asset Replacement			\$ -	\$ 157	\$ 157					100										100
ASSET REPL 66KV -PRIMARY-CIRCUIT BREAKER		\$ 5,033	Asset Replacement			\$ -	\$ 2,516	\$ 2,516					100										100
ASSET REPL 66KV -PRIMARY-CURRENT TX		\$ 1,093	Asset Replacement			\$ -	\$ 588	\$ 505					100										100
ASSET REPL 66KV -PRIMARY-SURGE ARRESTOR		\$ 97	Asset Replacement			\$ -	\$ 81	\$ 16		100													100
ASSET REPL 66KV -PRIMARY-TRANSMISSION TX		\$ 886	Asset Replacement			\$ -	\$ 886	\$ -					100										100
ASSET REPL 66KV -PRIMARY-VOLTAGE TX		\$ 835	Asset Replacement			\$ -	\$ 384	\$ 451		100													100
ASSET REPL -SECONDARY-OVERCURRENT		\$ 569	Asset Replacement			\$ -	\$ 569	\$ -					100										100
ASSET REPL -SECONDARY-DISTANCE		\$ 2,133	Asset Replacement			\$ -	\$ -	\$ 2,133					100										100
ASSET REPL -SECONDARY-PILOT		\$ 720	Asset Replacement			\$ -	\$ -	\$ 720					100										100
ASSET REPL -SECONDARY-TXR DIFFERENTIAL		\$ 621	Asset Replacement			\$ -	\$ -	\$ 621					100										100
ASSET REPL -SECONDARY-LINE DIFFERENTIAL		\$ 37	Asset Replacement			\$ -	\$ -	\$ 37					100										100
ASSET REPL -SECONDARY-BUS ZONE		\$ 194	Asset Replacement			\$ -	\$ -	\$ 194					100										100
ASSET REPL -SECONDARY-FREQUENCY		\$ 470	Asset Replacement			\$ -	\$ -	\$ 470				100											100
ASSET REPL -SECONDARY-S/S BATTERY BANKS		\$ 265	Asset Replacement			\$ -	\$ 130	\$ 136					100										100
ASSET REPL 66KV -SECONDARY-OVERCURRENT		\$ 1,707	Asset Replacement			\$ -	\$ -	\$ 1,707					100										100
ASSET REPL 66KV -SECONDARY-DISTANCE		\$ 237	Asset Replacement			\$ -	\$ -	\$ 237				</											

ACCESS ARRANGEMENT - TRANSMISSION CAPEX PROJECTS

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ACCESS ARRANGEMENT - TRANSMISSION CAPEX PROJECTS

NARROGIN S/S : INSTALL 22kV CAP BANK	NARROGIN SUBSTATION : INSTALL 22kV CAPACITOR BANK	\$	222	System Capacity	\$	-	\$	193	\$	29	IAM								2			1			100	
KATANNING S/S : CAPACITOR BANK	KATANNING SUBSTATION : CAPACITOR BANK	\$	246	System Capacity	\$	-	\$	152	\$	94	IAM								2			1			100	
BUSSELTON S/S: INSTALL 5 MVA/ CAP BANK	SUBSTATIONELTON SUBSTATION: INSTALL 5 MVA/ CAPACITOR BAN	\$	264	System Capacity	\$	-	\$	52	\$	212	IAM								2			1			100	
WUNDOWIE S/S : INSTALL CAPACITOR BANK	WUNDOWIE SUBSTATION : INSTALL CAPACITOR BANK	\$	47	System Capacity	\$	-	\$	16	\$	32	IAM								2			1			100	
MRIVER S/S: INST4MVARs OF REACTIVE SUPP	GARET RIVER SUBSTATION: INSTALL 4MVARs OF REACTIVE SUPPC	\$	250	System Capacity	\$	-	\$	123	\$	127	IAM								2			1			100	
ECR & EGF AREAS : INSTALL UVLS SCHEME	N & EASTERN GOLDFIELDS AREAS : INSTALL UNDER-VOLTAGE LOA	\$	663	System Capacity	\$	-	\$	64	\$	599	\$	-	IAM												100	
YPS17- PROTECTION SETTINGS MODIFICATION	YANCHEP YPS17- PROTECTION SETTINGS MODIFICATION	\$	6	System Capacity	\$	-	\$	6	\$	-	\$	-	IAM												100	
HADFIELDS: NEW FEEDER PROTECTION SETTING	HADFIELDS: NEW FEEDER PROTECTION SETTING	\$	5	System Capacity	\$	-	\$	-	\$	-	\$	-	IAM												100	
UPRATE QC MYR71, MYR-APM71 ASF-APM71	ET1, MYAREE-AUSTRALIAN PAPER MILLS71 &SOUTH FREEMANTLE-	\$	305	System Capacity	\$	-	\$	63	\$	242	IAM														100	
MANNING ST: REPLACE CT& MOD'Y P/SETTINGS	S ST: REPLACE CURRENT TRANSFORMER & MODIFY PROTECTION S	\$	73	System Capacity	\$	-	\$	35	\$	38	IAM														100	
NORTH FRE. S/S : AUTO CHANGE-OVER SCHEME	NORTH FREEMANTLE SUBSTATION : AUTO CHANGE-OVER SCHEME	\$	28	System Capacity	\$	-	\$	28	\$	-	IAM														100	
COCKBURN CEMENT S/S: NEW FEED CIR CC516	COCKBURN CEMENT SUBSTATION: NEW FEEDER CIRCUIT CC518	\$	168	System Capacity	\$	-	\$	74	\$	94	\$	-	IAM												100	
RIVERTON S/S : INSTALL FEEDER CCT RTN504	RIVERTON SUBSTATION : INSTALL FEEDER CIRCUIT RTN506	\$	163	System Capacity	\$	-	\$	72	\$	90	\$	-	IAM												100	
DARLINGTON S/S : INSTALL NEW FEEDER CCT	DARLINGTON SUBSTATION : INSTALL NEW FEEDER CIRCUIT	\$	133	System Capacity	\$	-	\$	133	\$	-	\$	-	IAM												100	
KALAMUNDA S/S : INSTALL NEW FEEDER CCT	KALAMUNDA SUBSTATION : INSTALL NEW FEEDER CIRCUIT	\$	80	System Capacity	\$	-	\$	80	\$	-	\$	-	IAM												100	
PICCADILLY S/S : 2 NEW 11kV FEEDER CIRCS	PICCADILLY SUBSTATION: 2 NEW 11kV FEEDER CIRCUITS	\$	44	System Capacity	\$	-	\$	44	\$	-	\$	-	IAM												100	
MIDLAND JUNCTION S/S : NEW FEEDER CCT	MIDLAND JUNCTION SUBSTATION : NEW FEEDER CIRCUIT	\$	44	System Capacity	\$	-	\$	44	\$	-	\$	-	IAM												100	
KW-ST 92: NEW CCTS AT ST & KW & ENERGISE	ERN TERMINAL 92: NEW CIRCUITS AT SOUTHERN TERMINAL & KWIN	\$	4,884	System Capacity	\$	-	\$	444	\$	2,827	\$	1,614	IAM												100	
NEW FEEDER FOR NETWORK SERVICES DIVISION	NEW FEEDER FOR NETWORK SERVICES DIVISION	\$	420	System Capacity	\$	-	\$	140	\$	140	\$	140	IAM												100	
MANNING ST: INSTALL BUS COUPLER	MANNING ST: INSTALL BUS COUPLER	\$	162	System Capacity	\$	-	\$	63	\$	98	\$	-	IAM												100	
LANDSDALE - NEW LDE520 FEEDER	LANDSDALE - NEW LDE520 FEEDER	\$	5	System Capacity	\$	-	\$	5	\$	-	\$	-	IAM												100	
JOEL TCE: ADD TWO 11kV FEEDER CCT (06/07	JOEL TCE: ADDITIONAL TWO 11kV FEEDER CIRCUITS (06/09	\$	500	System Capacity	\$	-	\$	-	\$	200	\$	300	IAM												100	
FORREST AVE: ADD 11kV FEEDER CCT(07/08)	FORREST AVE: ADDITIONAL 11kV FEEDER CIRCUIT(07/08)	\$	250	System Capacity	\$	-	\$	-	\$	100	\$	150	IAM												100	
FORREST AVE: ADD 11kV FEEDER CCT 2008-09	FORREST AVE: ADDITIONAL 11kV FEEDER CIRCUIT 2008-11	\$	250	System Capacity	\$	-	\$	-	\$	100	\$	150	IAM												100	
UNIVERSITY S/S : INSTALL NEW FEEDER CCT	UNIVERSITY SUBSTATION : INSTALL NEW FEEDER CIRCUIT	\$	221	System Capacity	\$	-	\$	86	\$	86	\$	134	IAM												100	
COTTESLOE S/S : INSTALL NEW FEEDER CCT	COTTESLOE SUBSTATION : INSTALL NEW FEEDER CIRCUIT	\$	221	System Capacity	\$	-	\$	86	\$	86	\$	134	IAM												100	
ALBANY S/S : ADD 22kV FEEDER CIRCUIT	ALBANY SUBSTATION : ADDITIONAL 22kV FEEDER CIRCUIT	\$	221	System Capacity	\$	-	\$	86	\$	86	\$	134	IAM												100	
YANCHEP S/S: NEW FEEDER CIRCUIT	YANCHEP SUBSTATION: NEW FEEDER CIRCUIT	\$	192	System Capacity	\$	-	\$	75	\$	75	\$	117	IAM												100	
BUH S/S: INSTALL NEW 22kV FEEDER CCT	NBURY HARBOUR SUBSTATION: INSTALL NEW 22kV FEEDER CIRCU	\$	214	System Capacity	\$	-	\$	73	\$	73	\$	141	IAM												100	
BSN S/S: INSTALL NEW 22kV FEEDER CCT	BUSSELTON SUBSTATION: INSTALL NEW 22kV FEEDER CIRCUIT	\$	214	System Capacity	\$	-	\$	73	\$	73	\$	141	IAM												100	
BOULDER : BLD 610 CB AS BUS SEC BREAKER	BOULDER : BLD 610 CB AS BUS SECTION BREAKER	\$	217	System Capacity	\$	-	\$	5	\$	212	IAM														100	
NT-ST 91: NEW 330KV TRANSMISSION LINE	ERMINAL-SOUTHERN TERMINAL 91: NEW 330KV TRANSMISUBSTAT	\$	2,435	System Capacity	\$	-	\$	45	\$	2,390	IAM														100	
ST - EP 81 CONVERSION TO DOUBLE CCT	HERN TERMINAL - EAST PERTH 81 CONVERSION TO DOUBLE CIRCU	\$	969	System Capacity	\$	-	\$	969	\$	-	\$	-	IAM												100	
UPRATE OF UNDERATED OVERHEAD EARTHWIRES	UPRATE OF UNDERATED OVERHEAD EARTHWIRES	\$	5,000	System Capacity	\$	-	\$	2,500	\$	2,500	\$	-	IAM												100	
KW-SF 81: CONVERT LINE TO DOUBLE CIRCUIT	WINANA-SOUTH FREEMANTLE 81: CONVERT LINE TO DOUBLE CIRCU	\$	1,910	System Capacity	\$	-	\$	1,910	\$	-	\$	-	IAM												100	
CT - RVE 81 LINE UPRATE TO 282 MVA	ANNINGTON TERMINAL - RIVERVALE 81 LINE UPRATE TO 282 MVA	\$	2,169	System Capacity	\$	-	\$	2,169	\$	-	\$	-	IAM												100	
OC - MYR 71 LINE : UPRATE TO 100 DEGREE	O'CONNOR - MYAREE 71 LINE : UPRATE TO 100 DEGREE	\$	900	System Capacity	\$	-	\$	390	\$	50	\$	510	IAM												100	
KW-ST 81: CONVERT LINE TO DOUBLE CIRCUIT	WINANA-SOUTHERN TERMINAL 81: CONVERT LINE TO DOUBLE CIRCU	\$	4,848	System Capacity	\$	-	\$	49	\$	2,676	\$	2,123	IAM												100	
GLT- MJ 81 LINE FUTURE UPRATE	LFORD TERMINAL- MIDLAND JUNCTION 81 LINE FUTURE UPRATE	\$	238	System Capacity	\$	-	\$	21	\$	216	\$	-	IAM												100	
WE-BEL 81 : UPRATE TO 282 MVA	WELSHPOOL-BELMONT 81 : UPRATE TO 282 MVA	\$	2,800	System Capacity	\$	-	\$	-	\$	1,256	\$	1,543	IAM												100	
CPN - NHN : CONSTRUCT NEW 132kV LINE	CHAPMAN - NORTH HAMPTON : CONSTRUCT NEW 132kV LINE	\$	1,379	System Capacity	\$	-	\$	680	\$	699	IAM														100	
NT-NB 81 LINE UPRATE - RECONDUCTOR LINE	HERN TERMINAL-NORTH BEACH 81 LINE UPRATE - RECONDUCTOR	\$	2,179	System Capacity	\$	-	\$	628	\$	1,551	IAM														100	
MUL - WNO 81 - LINE UPRATE	MULLALOO - WANNEROO 81 - LINE UPRATE	\$	1,179	System Capacity	\$	-	\$	-	\$	316	\$	863	IAM												100	
CT-MW-SV-WUN-NORT71 : REBUILD TO 132kV	JAL-MUNDARING WEIR-SAWYERS VALLEY-WUNDOWIE-NORTHAM71	\$	7,742	System Capacity	\$	-	\$	219	\$	7,523	IAM														100	
SOUTHERN RIVER SS - CUT IN ST-WGP/APJ 81	VER SUBSTATION - CUT IN SOUTHERN TERMINAL-WAGERUP/ALCO	\$	2,792	System Capacity	\$	-	\$	-	\$	195	\$	2,597	IAM												100	
NT-MLA 81 & 82 UPRATE - RECONDUCTOR LINE	THEN TERMINAL-MOUNT LAWLEY 81 & 82 UPRATE - RECONDUCTOR	\$	1,811	System Capacity	\$	-	\$	150	\$	1,660	IAM														100	
WT-CK 81: UPRATE OH LINE CONDUCTOR AND	STERN TERMINAL-COOK ST 81: UPRATE OVERHEAD LINE CONDUCT	\$	1,764	System Capacity	\$	-	\$	126	\$	1,638	IAM														100	
KOU - WAG 71 : LINE RECONDUCTOR	KOJONUP - WAGIN 71 : LINE RECONDUCTOR	\$	10,627	System Capacity	\$	-	\$	116	\$	10,510	IAM														100	
MRT-MER CONSTRUCT NEW 132kV LINE	MERREDIN TERMINAL-MERREDIN CONSTRUCT NEW 132kV LINE	\$	1,650	System Capacity	\$	-	\$	100	\$	1,550	IAM														100	
KOJONUP - ALBANY 81 UPRATE TO 65 C	KOJONUP - ALBANY 81 UPRATE TO 65 C	\$	2,031	System Capacity	\$	-	\$	100	\$	1,931	IAM														100	
ST - SF LINE CONVERSION TO DOUBLE C/O	N TERMINAL - SOUTH FREEMANTLE LINE CONVERSION TO DOUBLE	\$	4,700	System Capacity	\$	-	\$	50	\$	4,650	IAM														100	
MUJA-BUNBURY HARBOUR: UPRATE LINE TO 158	MUJA-BUNBURY HARBOUR: UPRATE LINE TO 160	\$	79	System Capacity	\$	-	\$	-	\$	19	\$	59	IAM												100	
WGH - KOORDA : CONSTRUCT NEW LINE	WONGAN HILL - KOORDA : CONSTRUCT NEW LINE	\$	431	System Capacity	\$	-	\$	10	\$	421	IAM														100	
MLA - MO 81 LINE UPRATE	MOUNT LAWLEY - MORLEY 81 LINE UPRATE	\$	59	System Capacity	\$	-	\$	5	\$	5	\$	54	IAM												100	
NT - BCH 81 LINE UPRATE	NORTHERN TERMINAL - BEECHBORO 81 LINE UPRATE	\$	75	System Capacity	\$	-	\$	-	\$	4	\$	72	IAM												100	
KW-BHK/BP71: LINE UPRATE (KW-TEE SECT)	KEN HILL KWINANA/BRITISH PETROLEUM 71: LINE UPRATE (KWINANA-	\$	2	System Capacity	\$	-	\$	-	\$	2	\$	-	IAM												100	
WKT - BLD 33kV LINE : UPGRADE TO 30 MVA	IT KALGOORLIE TERMINAL - BOULDER 33kV LINE : UPGRADE TO 30 M	\$	419	System Capacity	\$	-	\$	419	\$	-	\$	-	IAM												100	
WKT - BKF : CONSTRUCT SECOND 132kV LINE	KALGOORLIE TERMINAL - BLACK FLAG : CONSTRUCT SECOND 132k	\$	5,854	System Capacity	\$	-	\$	-	\$	1,540	\$	4,313	IAM												100	
BEENUP S/S: INSTALL 2ND TRANSFORMER	BEENUP SUBSTATION : INSTALL 2ND TRANSFORMER	\$	4	System Capacity	\$	-	\$	4	\$	-	\$	-	IAM												100	
LANDSDALE S/S: Install 3RD TX -Slg 1: TX	JALE SUBSTATION: INSTALL 3RD TRANSFORMER -STAGE 1: TRANSF	\$	622	System Capacity	\$	-	\$	622	\$	-	\$	-	IAM												100	
KATANNING S/S : INSTALL NEW 66/22kV TX	KATANNING SUBSTATION : INSTALL NEW 66/22kV TRANSFORMER	\$	911	System Capacity	\$	-	\$	911	\$	-	\$	-	IAM												100	
KALBARRI S/S: INSTALL OF 33/11kV TX	KALBARRI SUBSTATION: INSTALL OF 33/11kV TRANSFORMER	\$	421	System Capacity	\$	-	\$	421	\$	-	\$	-	IAM												100	
PICCADILLY S/S : 3RD 132 kV TRANSFORMER	PICCADILLY SUBSTATION : 3RD 132 kV TRANSFORMER	\$	2,137	System Capacity	\$	-	\$	1,258	\$	880	\$	-	IAM												100	
SOUTHERN RIVER S/S : INSTALL 2ND TRANSF.	SOUTHERN RIVER SUBSTATION : INSTALL 2ND TRANSFORMER	\$	2,228	System Capacity	\$	-	\$	2,228	\$	-	\$	-	IAM												100	
MERREDIN S/S : T/X UPRATE	MERREDIN SUBSTATION - TRANSFORMER UPRATE	\$	171	System Capacity	\$	-	\$	171	\$	-	\$	-	IAM												100	
AMHERST S/S: INSTALL THIRD TRANSFORMER	AMHERST SUBSTATION: INSTALL THIRD TRANSFORMER	\$	2,756	System Capacity	\$	-	\$	1,844	\$	912	\$	-	IAM												100	
BYFORD S/S : INSTALL 3rd TRANSFORMER	BYFORD SUBSTATION : INSTALL 3rd TRANSFORMER	\$	2,052	System Capacity	\$	-	\$	1,405	\$	867	\$	-	IAM												100	
NORTHAM S/S : INSTALL 2ND TRANSFORMER	NORTHAM SUBSTATION : INSTALL 2ND TRANSFORMER	\$	2,938	System Capacity	\$	-	\$	10	\$	1,598	\$	1,330	IAM												100	
YOKINE S/S : INSTALL 3RD TRANSFORMER	YOKINE SUBSTATION : INSTALL 3RD TRANSFORMER	\$	3,292	System Capacity	\$	-	\$	1,515	\$	1,777	\$	-	IAM												100	
PADBURY S/S : INSTALL 2ND TRANSFORMER	PADBURY SUBSTATION : INSTALL 2ND TRANSFORMER	\$	2,697	System Capacity	\$	-	\$	93	\$	1,437	\$	1,167	IAM												100	
UNIVERSITY S/S: INSTALL 3RD TRANSFORMER	UNIVERSITY SUBSTATION: INSTALL 3RD TRANSFORMER	\$	1,997	System Capacity	\$	-	\$	876	\$</																	

ACCESS ARRANGEMENT - DISTRIBUTION CAPEX PROJECTS

Project	Project Description	Total Cost Over Regulatory Period (\$ 000)	Driver	Project duration and expenditure (\$ 000)					Notes	% Total Cost by Asset Group							TOTAL		
				2004/2005	2005/2006	2006/2007	2007/2008	2008/2009		Wood Pole Lines	Underground Cables	Transformers	Switchgear	Streetlighting	Meters and Services	Non Network			
High voltage projects - refer to sheet 'Dist Capacity Demand Capex'	High voltage projects (various) - refer to sheet 'Dist Capacity Demand Capex'	\$ 87,710	Distribution Capacity			\$ 26,400	\$ 28,690	\$ 32,620	IAM	33	53.8		6.9	6.3			100		
Low Voltage Feeder Upgrades	Low Voltage Feeder Upgrades (various)	\$ 10,690	Distribution Capacity			\$ 1,520	\$ 3,750	\$ 5,420	IAM		95		5				100		
Overloaded Distribution Transformer Replacement	Overloaded Distribution Transformer Replacement (various)	\$ 7,220	Distribution Capacity			\$ 3,400	\$ 1,560	\$ 2,260	IAM			100					100		
			TOTAL Distribution Capacity	\$ 22,510	\$ 33,330	\$ 31,320	\$ 34,000	\$ 40,300	IAM										
New Residential Subdivision Development	New Residential Subdivision Development (various)	\$ 98,842	Customer Driven			\$ 32,947	\$ 32,947	\$ 32,947	IAM	3	72	10	6	9			100		
New Industrial/Commercial Subdivision Development	New Industrial/Commercial Subdivision Development (various)	\$ 20,275	Customer Driven			\$ 6,758	\$ 6,758	\$ 6,758	IAM	3	69	12	9	7			100		
Connection of New Industrial/Commercial/Individual Customers	Connection of New Industrial/Commercial/Individual Customers (various)	\$ 68,429	Customer Driven			\$ 22,810	\$ 22,810	\$ 22,810	IAM	5	26	46	23				100		
Connection of New Rural Customers (SES)	Connection of New Rural Customers (various)	\$ 12,672	Customer Driven			\$ 4,224	\$ 4,224	\$ 4,224	IAM	55	8	28	9				100		
Connection of New Small Single Customers	Connection of New Small Single Customers (various)	\$ 38,016	Customer Driven			\$ 12,892	\$ 12,672	\$ 12,072	IAM		98	2					100		
Connection of New Streetlights and Relocations	Connection of New Streetlights and Relocations (various)	\$ 15,206	Customer Driven			\$ 5,069	\$ 5,069	\$ 5,069	IAM	45				55			100		
TX Enclosures	TX Enclosures	\$ 1,105	Customer Driven - Technical Rules Changes			\$ -	\$ 360	\$ 745	IAM			100					100		
Reduced Cust radial Feeds	Reduced Cust radial Feeds	\$ 7,198	Customer Driven - Technical Rules Changes			\$ -	\$ 2,407	\$ 4,791	IAM	45				55			100		
Increased ADMs	Increased ADMs	\$ 24,731	Customer Driven - Technical Rules Changes			\$ -	\$ 8,186	\$ 16,545	IAM			40	30				100		
Increased loads Comm/Ind subdivisions	Increased loads Comm/Ind subdivisions	\$ 6,834	Customer Driven - Technical Rules Changes			\$ -	\$ 2,221	\$ 4,613	IAM		30	40	30				100		
Pole to Pillar Connections	Pole to Pillar Connections	\$ 24,727	Customer Driven - Technical Rules Changes			\$ 8,000	\$ 8,240	\$ 8,487	IAM		100						100		
Dist Remote Control Monitoring	Dist Remote Control Monitoring	\$ 8,937	Customer Driven - Technical Rules Changes			\$ -	\$ 2,905	\$ 6,032	IAM			60	40				100		
Streetlights	Streetlights	\$ 2,366	Customer Driven - Technical Rules Changes			\$ -	\$ 769	\$ 1,597	IAM					100			100		
Fire Proof Construction	Fire Proof Construction	\$ 3,422	Customer Driven - Technical Rules Changes			\$ -	\$ 982	\$ 2,440	IAM	100							100		
			TOTAL Customer Driven	\$ 103,660	\$ 84,483	\$ 92,700	\$ 110,550	\$ 129,130	IAM										
Substation - RMU	Substation - RMU	\$ 6,000	Asset Replacement			\$ 2,000	\$ 2,000	\$ 2,000					100				100		
Distribution Poles Replacement	Distribution Poles Replacement	\$ 48,400	Asset Replacement			\$ 8,400	\$ 21,000	\$ 19,000		100							100		
Carriers	Carriers	\$ 5,000	Asset Replacement			\$ 1,000	\$ 1,000	\$ 3,000		100							100		
Sectionalisers/Reclosers	Sectionalisers/Reclosers	\$ 19	Asset Replacement			\$ 17	\$ 1	\$ 1					100				100		
Distribution Transformers	Distribution Transformers	\$ 1,664	Asset Replacement			\$ 500	\$ 598	\$ 566				100					100		
Compensators	Compensators	\$ 101	Asset Replacement			\$ 49	\$ 26	\$ 26				100					100		
LV Frames	LV Frames	\$ 473	Asset Replacement			\$ 154	\$ 158	\$ 162					100				100		
PWOD Reinforcement	PWOD Reinforcement	\$ 16,000	Asset Replacement			\$ 4,900	\$ 5,000	\$ 6,100		100							100		
Wildlife proofing (G)	Wildlife proofing (G)	\$ 662	Asset Replacement			\$ 201	\$ 217	\$ 245		100							100		
Emergency Response Generation	Emergency Response Generation	\$ 380	Asset Replacement			\$ 380	\$ -	\$ -				100					100		
			TOTAL Asset Replacement	\$ 11,040	\$ 10,255	\$ 17,600	\$ 30,000	\$ 31,100											
Distribution Remote Control - Pilot Project Initiatives	Distribution Remote Control - Pilot Project Initiatives	\$ 2,500	Reliability Driven			\$ 500	\$ 1,000	\$ 1,000					100				100		
40 worst feeders Program (20 Metro, 10 NC and 10SC)	40 worst feeders Program (20 Metro, 10 NC and 10SC)	\$ 28,594	Reliability Driven			\$ 5,350	\$ 15,554	\$ 7,690		70	30						100		
Fault Indicator Installation (OH/UG)	Fault Indicator Installation (OH/UG)	\$ 3,810	Reliability Driven			\$ -	\$ 1,800	\$ 2,010					100				100		
Targeted Reliability Driven Reclosers	Targeted Reliability Driven Reclosers	\$ 3,523	Reliability Driven			\$ 1,573	\$ 730	\$ 1,220					100				100		
Remote Control RMU/PTS	Remote Control RMU/PTS	\$ 2,170	Reliability Driven			\$ -	\$ 620	\$ 1,550					100				100		
RPIP Stage 2 - SCADA for Remainder of country 3phase reclosers	RPIP Stage 2 - SCADA for Remainder of country 3phase reclosers	\$ 499	Reliability Driven			\$ 269	\$ 100	\$ 130								100	100		
Carry Over Costs & Costs Uplift applicable to Reliability Driven Projects	Carry Over Costs & Costs Uplift applicable to Reliability Driven Projects	\$ 1,805	Reliability Driven			\$ 1,805	\$ -	\$ -											
			TOTAL Reliability Driven	\$ 50	\$ 7,692	\$ 9,497	\$ 19,804	\$ 13,600											
Overhead Customer Service Connection	Overhead Customer Service Connection	\$ 33,776	Safety, Environmental & Statutory			\$ 8,401	\$ 13,104	\$ 12,271		100							100		
Metal SL poles	Metal SL poles	\$ 4,990	Safety, Environmental & Statutory			\$ 1,390	\$ 1,350	\$ 2,250						100			100		
Conductive Poles	Conductive Poles	\$ 2,328	Safety, Environmental & Statutory			\$ 438	\$ 884	\$ 1,006		100							100		
SL Switch wires	SL Switch wires	\$ 1,572	Safety, Environmental & Statutory			\$ 438	\$ 450	\$ 684						100			100		
URD pits	URD pits	\$ 1,100	Safety, Environmental & Statutory			\$ 1,100	\$ -	\$ -			100						100		
Henley Boxes	Henley Boxes	\$ 6,067	Safety, Environmental & Statutory			\$ 1,400	\$ 1,499	\$ 3,018			100						100		
Cattle Care	Cattle Care	\$ 1,421	Safety, Environmental & Statutory			\$ 521	\$ 450	\$ 450		100							100		
PTS earth mats	PTS earth mats	\$ 6,739	Safety, Environmental & Statutory			\$ 2,127	\$ 2,267	\$ 2,345						100			100		
LV frame shrouding	LV frame shrouding	\$ 1,748	Safety, Environmental & Statutory			\$ 362	\$ 383	\$ 1,003					100				100		
TX poles	TX poles	\$ 2,573	Safety, Environmental & Statutory			\$ 1,434	\$ 975	\$ 164				100					100		
River Crossings	River Crossings	\$ 670	Safety, Environmental & Statutory			\$ 400	\$ 270	\$ -		100							100		
Bushfire Mitigation - wires down	Bushfire Mitigation - wires down	\$ 10,987	Safety, Environmental & Statutory			\$ 876	\$ 4,750	\$ 5,361				100					100		
Bushfire Mitigation - conductor clashing HV	Bushfire Mitigation - conductor clashing HV	\$ 15,219	Safety, Environmental & Statutory			\$ 4,473	\$ 5,035	\$ 5,711		100							100		
Bushfire Mitigation - conductor clashing - LV	Bushfire Mitigation - conductor clashing - LV	\$ 3,422	Safety, Environmental & Statutory			\$ 1,300	\$ 1,001	\$ 1,121		100							100		
Bushfire Mitigation - fire safe fuses	Bushfire Mitigation - fire safe fuses	\$ 6,554	Safety, Environmental & Statutory			\$ 877	\$ 2,631	\$ 3,046					100				100		
Refurbish Distribution Voltage Regulators	Refurbish Distribution Voltage Regulators	\$ 725	Safety, Environmental & Statutory			\$ 725	\$ -	\$ -				100					100		
Power Quality compliance	Power Quality compliance	\$ 18,400	Safety, Environmental & Statutory			\$ 3,000	\$ 9,000	\$ 6,400		45	50	5					100		
Padmount Transformer Noise	Padmount Transformer Noise	\$ 4,038	Safety, Environmental & Statutory			\$ 438	\$ 1,800	\$ 1,800				100					100		
Carry Over Costs & Costs Uplift applicable to Reg Compliance Projects	Carry Over Costs & Costs Uplift applicable to Reg Compliance Projects	\$ 2,008	Safety, Environmental & Statutory			\$ 2,008	\$ -	\$ -											
			TOTAL Safety, Environmental & Statutory	\$ 25,100	\$ 23,929	\$ 27,692	\$ 46,000	\$ 46,630											
CBD SCADA CONNECTIONS	Connect CBD SCADA Remote Sites to Perth Fibre Network	\$ 11	SCADA & Communications			\$ 11	\$ -	\$ -									100	100	
DIST. SCADA/COMMS ASSET REPL INVESTIGATION	Asset Replacement Strategy for CBD and Metro Reclosers SCADA	\$ 69	SCADA & Communications			\$ 69	\$ -	\$ -									100	100	
COUNTRY MOBILE RADIO	Asset Replacement Of Country Mobile Radio Bases/Links	\$ 1,103	SCADA & Communications			\$ 274	\$ 279	\$ 550									100	100	
DIST. AUTOMATION EXPANSION - RECLOSERS	Metro Distribution Recloser SCADA/Comms Bases Expansion	\$ 33	SCADA & Communications			\$ 33	\$ -	\$ -									100	100	
DISTRIBUTION AUTOMATION	Rollout of SCADA/Comms Bases for Distribution Automation Projects	\$ 980	SCADA & Communications			\$ 480	\$ 250	\$ 250									100	100	
HARDWARE FOR ENMAC MASTER STATION	ENMAC Distribution Master Station Hardware Upgrades	\$ 150	SCADA & Communications			\$ 50	\$ 50	\$ 50									100	100	
COMMS: ENMAC RTU DIGITAL DATA INTERFACE	Distribution SCADA Master - Install Digital RTU Comms Interface	\$ 92	SCADA & Communications			\$ 92	\$ -	\$ -									100	100	
SCADA: 3 PH RECLOSERS FOR COUNTRY AREA	Provide Remote Control & Monitoring for Various Country 3 PH Reclosers	\$ 783	SCADA & Communications			\$ 192	\$ 461	\$ 130									100	100	
TRUNKED MOBILE RADIO REPLACEMENT	Trunked Mobile Radio Replacement	\$ 920	SCADA & Communications			\$ 40	\$ 440	\$ 440									100	100	
INSTALL GPRS/1XRTT SCADA BASE	Install GPRS/1XRTT Distribution SCADA Base	\$ 34	SCADA & Communications			\$ 34	\$ -	\$ -									100	100	
COMMS TOWER REINF. REGULATORY COMPLIANCE	Communications Tower Reinforcement for Regulatory Compliance	\$ 700	SCADA & Communications			\$ 700	\$ -	\$ -									100	100	
METRO RECLOSER SYSTEM RADIO REPLACEMENT	Metro Recloser SCADA System Radio Asset Replacement	\$ 800	SCADA & Communications			\$ 100	\$ 320	\$ 480									100	100	
CBD SCADA EXPANSION	CBD SCADA System Base Capacity Expansion	\$ 126	SCADA & Communications			\$ 126	\$ -	\$ -									100	100	
			TOTAL SCADA & Communications	\$ 2,170	\$ 2,137	\$ 2,201	\$ 1,800	\$ 1,900											
Outage Management System (TCMS)	New IT system to replace current Trouble Call (fault) Management System	\$ 5,465	IT&T			\$ 1,855	\$ 3,000	\$ 610									100	100	
Feeder & Transformer Forecasting Tool	New IT tool for load monitoring & planning of quality of supply initiatives	\$ 351	IT&T			\$ 148	\$ 100	\$ 103									100	100	
Reliability Program	System enhancements for reliability data recording, analysis & reporting	\$ 1,651	IT&T			\$ 375	\$ 638	\$ 638									100	100	
Workforce Management	Establish Work Management System	\$ 4,886	IT&T			\$ 1,238	\$ 3,300	\$ 348									100	100	
System / Data access for others	Establish access to network data by retailers, generators & stakeholders	\$ 210	IT&T			\$ 10	\$ 172	\$ 28									100	100	
GIS Replacement	Replacement of current 'DfIS' geographic information system	\$ 4,463	IT&T			\$ -	\$ 128	\$ 4,335									100	100	
Asset Systems Rationalisation	Enhancement of current asset management systems (various)	\$ 1,520	IT&T			\$ 920	\$ 560	\$ 40									100	100	
Disaster Recovery Project	Implementation of IT disaster recovery plan	\$ 1,158	IT&T			\$ 311	\$ 521	\$ 326									100	100	
Customer Information Systems	Establish a Networks Customer Information System	\$ 6,377	IT&T			\$ 360	\$ 1,967	\$ 4,050									100	100	
Interfaces to Interim Market	Establish IT interfaces with IMO to provide operational data as required	\$ 2,528	IT&T			\$ 1,024	\$ 880	\$ 624									100	100	
IVR	ACD/IVR Replacement	\$ 1,540	IT&T			\$ 1,540	\$ -	\$ -									100	100	
Compliance Reporting	Amplish/modify systems to support new compliance reporting processes & EIS Sys	\$ 3,406	IT&T			\$ 1,350	\$ 1,130	\$ 926									100	100	
Hardware Purchases	Various minor hardware purchases	\$ 1,884	IT&T			\$ 706	\$ 589	\$ 589									100	100	
IT&T Systems Maintenance	IT&T Systems Maintenance (ongoing)	\$ 7,588																	

DISTRIBUTION CAPACITY DEMAND RELATED CAPITAL EXPENDITURE
(Constrained)
Summary of Capital Expenditure Forecasts from Year 2007 to 2009

Priority Ranking - 5 to 5

			2006/07	2007/08	2008/09	Total Over Reg Period
Approved Constrained Budget			31,320,000	34,000,000	40,300,000	105,620,000
Constrained Budget Limit HV			26,400,000	28,690,000	32,620,000	87,710,000
Constrained Budget Limit LV			4,920,000	5,310,000	7,680,000	17,910,000
Total constrained Forecast \$						87,707,537
			2006/07	2007/08	2008/09	Total Over Reg Period
Metropolitan Region	Metro Areas (without Generic Projects)					
	ST&KW	Total	9,300,587	7,531,441	6,314,060	23,146,088
		Trans Driven	2,778,500	674,000	0	3,452,500
		HV Reinf	6,522,087	6,857,441	6,314,060	19,693,588
	NT	Total	3,418,580	3,092,580	7,565,000	14,076,160
		Trans Driven	2,531,580	1,600,580	6,109,000	10,241,160
		HV Reinf	887,000	1,492,000	1,456,000	3,835,000
	SF	Total	4,606,315	3,701,944	1,582,826	9,891,085
		Trans Driven	1,632,770	860,794	0	2,493,564
		HV Reinf	2,973,545	2,841,150	1,582,826	7,397,521
	EP	Total	920,000	0	1,594,000	2,514,000
		Trans Driven	0	0	0	0
		HV Reinf	920,000	0	1,594,000	2,514,000
	WT&CT	Total	3,518,600	9,859,245	5,750,850	19,128,695
		Trans Driven	2,518,600	4,270,745	5,550,850	12,340,195
		HV Reinf	1,000,000	5,588,500	200,000	6,788,500
	Metro Total (without Generic Projects)		21,764,082	24,185,210	22,806,736	68,756,028
	Trans Driven		9,461,450	7,406,119	11,659,850	28,527,419
	HV Reinf		12,302,632	16,779,091	11,146,886	40,228,609
	Metro Generic Projects	Total	46,200	1,592,400	3,092,400	4,731,000
		Trans Driven	0	500,000	1,000,000	1,500,000
		HV Reinf	46,200	1,092,400	2,092,400	3,231,000
	Metro Total (with Generic Projects)		21,810,282	25,777,610	25,899,136	73,487,028
	Trans Driven		9,461,450	7,906,119	12,659,850	30,027,419
	HV Reinf		12,348,832	17,871,491	13,239,286	43,459,609
South Country Region	SC (without Generic Projects)					
	SC	Total	\$1,153,000	\$1,148,000	\$4,370,000	6,671,000
		Trans Driven	0	0	400,000	400,000
		HV Reinf	1,153,000	1,148,000	3,970,000	6,271,000
	SC Generic Projects	Total	46,200	288,600	388,600	723,400
	SC Total (with Generic Projects)		1,199,200	1,436,600	4,758,600	7,394,400
	Trans Driven		0	0	400,000	400,000
	HV Reinf		1,153,000	1,148,000	3,970,000	6,271,000
North Country Region	NC (without Generic Projects)					
	NC	Total	2,006,619	992,036	750,000	3,748,655
		Trans Driven	271,286	0	0	271,286
		HV Reinf	1,735,333	992,036	750,000	3,477,369
	NC Generic Projects	Total	46,200	388,600	388,600	823,400
	NC Total (with Generic Projects)		2,052,819	1,380,636	1,138,600	4,572,055
	Trans Driven		271,286	0	0	271,286
	HV Reinf		1,735,333	992,036	750,000	3,477,369
Eastern Goldfields Region	EGF (without Generic Projects)					
	EGF	Total	1,361,654	0	650,000	2,011,654
		Trans Driven	0	0	0	0
		HV Reinf	1,361,654	0	650,000	2,011,654
	EGF Generic Projects	Total	0	96,200	146,200	242,400
	EGF Total (with Generic Projects)		1,361,654	96,200	796,200	2,254,054
	Trans Driven		0	0	0	0
	HV Reinf		1,361,654	0	650,000	2,011,654
	Total for all Regions	\$	26,423,955	28,691,046	32,592,536	87,707,537
	Subtotal Trans Driven	\$	9,732,736	7,906,119	13,059,850	30,698,705