

Real Capex Summary

	Nominal terms (\$)					Real terms (\$FY13)						
	Current Period (Actual)					Next Period						
						Assessment Period		CPP Period (Forecast)				
FY08 = year ended 31 March 2008	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19

Real Capex Summary

Network Capex	35,483,963	33,171,458	47,420,546	53,348,831	80,005,953	79,144,717	67,867,864	59,745,636	63,194,352	46,923,614
Non-Network Capex	4,134,000	2,912,000	5,880,000	20,030,000	7,742,000	2,263,000	3,417,000	2,284,000	3,091,000	2,161,000
Total	39,617,963	36,083,458	53,300,546	73,378,831	87,747,953	81,407,717	71,284,864	62,029,636	66,285,352	49,084,614

Note: This summary excludes acquired assets and is gross of capital contributions

Major Projects Capex Summary

Ref	Project/Programme Name	Service Category	Capex Category	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)
				FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
CPP1	Urban Major North	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	2,898,760	11,453,200	23,544,110	12,713,555	-	9,931,563	-	60,541,189
CPP2	Urban Major Dallington	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	350	9,983,612	9,644,440	-	-	-	-	-	19,628,052
CPP3	Urban Major West	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	100,000	100,000	6,484,445	-	6,684,445	
CPP4	Major Urban Southeast	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	500,000	5,495,359	2,776,800	-	8,772,159	
CPP5	Major Urban South	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	250,000	-	-	-	-	250,000	
CPP6	Urban Major CBD	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	500,000	-	-	-	500,000	
CPP7	Rural Major Rolleston	(a) Provide and operate network infrastructure	Major Projects	-	-	397,304	11,331	-	507,800	7,240,620	3,551,577	-	1,548,561	710,000	13,558,559	
CPP8	Rural Major Hororata/Creyke 66kV	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	1,501,032	-	250,000	3,385,332	720,810	5,857,174
CPP9	Major Rural Central Plains	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	1,274,364	-	-	-	3,722,642	4,997,006	
CPP10	Rural Major Springston	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	100,000	-	1,185,500	-	-	-	1,285,500	
CPP11	Rural Major Norwood	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	-	-	-	250,000	5,534,196	
CPP12	Rural Major Power Factor	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	120,000	120,000	120,000	120,000	120,000	720,000	
CPP13	Rural Major Annat	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	-	-	-	392,700	392,700	
CPP14	Rural Banks Peninsula	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	377,000	773,051	-	-	-	1,150,051	
CPP15	Rural Major Southbridge	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	-	-	100,000	4,284,517	4,384,517	
CPP16	Rural Major Dunsandel	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	-	-	2,415,226	-	2,415,226	
CPP17	Rural Major Porter Heights	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	4,136,854	-	-	-	4,136,854	
CPP18	Rural Major Kimberley	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	2,644,726	-	-	-	-	2,644,726	
CPP19	Rural Major Alpine	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	-	-	-	249,353	-	-	249,353	
CPP20	Rural Major Springston	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	-	855,759	1,134,000	-	-	-	-	1,989,759	
Current Period 21	Load management software	(a) Provide and operate network infrastructure	Major Projects	-	-	602,530	-	-	-	-	-	-	-	-	-	
Current Period 22	Urban & rural major projects - 66kV	(a) Provide and operate network infrastructure	Major Projects	-	-	1,720,651	1,355,208	3,271,653	-	-	-	-	-	-	-	
Current Period 23	Urban major projects - Earthquake emergency	(a) Provide and operate network infrastructure	Major Projects	-	-	-	854,770	773,734	-	-	-	-	-	-	-	
Current Period 24	Urban major projects - Hornby	(a) Provide and operate network infrastructure	Major Projects	-	-	208,280	-	-	-	-	-	-	-	-	-	
Current Period 25	Urban major projects - Bromley	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	221,880	-	-	-	-	-	-	-	
Current Period 26	Rural major projects - Weedons	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	8,459	-	-	-	-	-	-	-	
Current Period 27	Urban & rural major projects - Substations	(a) Provide and operate network infrastructure	Major Projects	-	-	5,189,990	5,633,557	16,945,966	-	-	-	-	-	-	-	
Current Period 28	Urban major projects - QEII	(a) Provide and operate network infrastructure	Major Projects	-	-	-	-	13,824	-	-	-	-	-	-	-	
Total Project/Programme				-	-	8,118,755	7,854,866	21,235,866	14,345,931	34,138,350	35,912,124	18,678,268	13,695,032	22,796,755	6,375,005	145,941,464

FY17 (CPP2)

Project/Programme Name:	Urban Major Dallington
Project/Programme Reference:	2
Project/Programme Description:	Subtransmission reinforcement to provide for increased capacity and security of supply in Dallington
CPP Reference:	CPP2
Service Category:	(a) Provide and operate network infrastructure
Capex Category:	Major Projects

Service Categories
(a) Provide and operate network infrastructure
(b) Provide load management services
(c) Provide connection services
(d) Rearrangement of assets at 3rd party request
(e) Other (please describe)

Capex Categories
(a) Customer Connection / Network Extension
(b) Reinforcement
(c) Major Projects
(d) Replacement
(e) Underground Conversions
(f) Asset Acquisitions
(g) Non-System Fixed Assets

Asset Category	Asset Type	IM Standard Life	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)	
			Current Period (Actual)					Assessment Period (Forecast)		Next Period						
			FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19		
Assets owned by the EDB but installed at bulk supply points owned by others																
Subtotal																
Subtransmission																
66 kV Overhead lines (concrete pole)		60														
66 kV Overhead lines (wood pole)		45														
66 kV Overhead lines (towers)		60														
66 kV Underground cables (PILC)		70														
66 kV Underground cables (XLPE)		55														
33 kV Overhead lines (concrete pole)		60														
33 kV Overhead lines (wood pole)		45														
33 kV Underground cables (PILC)		70														
33 kV Underground cables (XLPE)		55														
Pilot / Communications Circuits		45														
Substations																
Zone sub land		-														
Zone sub site development and buildings		70														
Power Transformers		45														
Protection (electromechanical)		40														
Protection (digital)		20														
Outdoor Structure (concrete pole)		60														
Outdoor Structure (wood pole)		45														
DC Supplies, batteries and inverters		20														
Other Items		40														
Subtotal																
Distribution Conductors																
11 kV Overhead lines (concrete pole)		60														
11 kV Overhead lines (wood pole)		45														
11 kV Underground cables (PILC)		70														
11 kV Underground cables (XLPE)		55														
Distribution Substations																
Distribution sub land		-														
Distribution transformers (pole, 1ph/2ph/3ph)		45														
Distribution transformers (pad)		55														
Distribution substations mount (pole)		45														
Distribution substations mount (pad)		55														
Distribution substation mount (building & in customer building)		70														
Subtotal																
Switchgear (All voltages)																
Surge Diverters (3ph, 66/33kV) / Air break isolators (66/33kV)		35														
Indoor circuit breakers and switchgear (66/33/11kV)		45														
Outdoor circuit breakers and switchgear (66/33/11kV)		40														
11kV Disconnectors & Dropout fuses		35														
11kV voltage regulators		55														
Subtotal																
Low voltage distribution network																
LV Overhead lines (concrete pole)		60														
LV Overhead lines (wood pole)		45														
LV Underground cables (PILC)		70														
LV Underground cables (XLPE)		55														
Link Pillars & LV customer service connections		45														
Subtotal																
Supporting or secondary systems																
Ripple Injection Plant		20														
SCADA		15														
Communications Equipment		15														
Metering systems		30														
Power factor correction plant		35														
EDB-owned mobile substations and generators		15														
Other generation plant owned by the EDB																
Easements																
Spares (not included above)																
Subtotal																
Non system fixed assets																
Information and Technology Systems																
Asset Management Systems																
Office Buildings, Depots and Workshops																
Non Network Land																
Office Furniture and Equipment																
Motor Vehicles																
Tools, Plant and Machinery																
Subtotal																
Total Project/Programme																

Total Project	Next Period (Real) Expenditure Components					Total
	Labour	Materials			Other	
		Cables/Conductor	Transformers	Switchgear		
%	%	%	%	%	%	
-	-	-	-	-	-	-

P	-	-	-	-	-	-
r	-	-	-	-	-	-
o	-	-	-	-	-	-
j	-	-	-	-	-	-
e	-	-	-	-	-	-
c	-	-	-	-	-	-
t	-	-	-	-	-	-
C	-	-	-	-	-	-
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m	-	-	-	-	-	-
p	-	-	-	-	-	-
o	-	-	-	-	-	-
n	-	-	-	-	-	-
e	-	-	-	-	-	-
n	-	-	-	-	-	-
t	-	-	-	-	-	-

Project costs by source	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)
	Current Period (Actual)					Assessment Period (Forecast)		Next Period					
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
EDB													
Related party													
Other sources													
To be tendered													
Total Project/Programme													

FY08-FY12 (CPP3)

Project/Programme Name:	Urban Major West
Project/Programme Reference:	3
Project/Programme Description:	Subtransmission reinforcement to provide for increased capacity and security of supply in western Christchurch
CPP Reference:	CPP3
Service Category:	(a) Provide and operate network infrastructure
Capex Category:	Major Projects

Service Categories
(a) Provide and operate network infrastructure
(b) Provide load management services
(c) Provide connection services
(d) Rearrangement of assets at 3rd party request
(e) Other (please describe)

Capex Categories
(a) Customer Connection / Network Extension
(b) Reinforcement
(c) Major Projects
(d) Replacement
(e) Underground Conversions
(f) Asset Acquisitions
(g) Non-System Fixed Assets

Asset Category	Asset Type	IM Standard Life	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)			
			Current Period (Actual)					Assessment Period (Forecast)		Next Period								
			FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19				
Assets owned by the EDB but installed at bulk supply points owned by others			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-transmission network including power transformers	Subtransmission																	
	66 kV Overhead lines (concrete pole)	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	66 kV Overhead lines (wood pole)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	66 kV Overhead lines (towers)	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	66 kV Underground cables (PILC)	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	66 kV Underground cables (XLPE)	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	33 kV Overhead lines (concrete pole)	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	33 kV Overhead lines (wood pole)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	33 kV Underground cables (PILC)	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	33 kV Underground cables (XLPE)	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Pilot / Communications Circuits	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Substations																	
	Zone sub land	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Zone sub site development and buildings	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Power Transformers	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Protection (electromechanical)	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Protection (digital)	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Outdoor Structure (concrete pole)	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Outdoor Structure (wood pole)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC Supplies, batteries and inverters	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Items	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Distribution network including distribution transformers	Distribution Conductors																	
	11 kV Overhead lines (concrete pole)	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11 kV Overhead lines (wood pole)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11 kV Underground cables (PILC)	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11 kV Underground cables (XLPE)	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Distribution Substations																	
	Distribution sub land	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Distribution transformers (pole, 1ph/2ph/3ph)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Distribution substations mount (pole)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Distribution substations mount (pad)	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Distribution substation mount (building & in customer building)	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Switchgear (All voltages)	Surge Diverters (3ph, 66/33kV) / Air break isolators (66/33kV)	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Indoor circuit breakers and switchgear (66/33/11kV)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Outdoor circuit breakers and switchgear (66/33/11kV)	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11kV Disconnectors & Dropout fuses	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11kV voltage regulators	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Low voltage distribution network	LV Overhead lines (concrete pole)	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	LV Overhead lines (wood pole)	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	LV Underground cables (PILC)	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	LV Underground cables (XLPE)	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Link Pillars & LV customer service connections	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Supporting or secondary systems	Ripple Injection Plant	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SCADA	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Communications Equipment	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Metering systems	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Power factor correction plant	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	EDB-owned mobile substations and generators	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Other generation plant owned by the EDB		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Easements		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Spares (not included above)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Non system fixed assets	Information and Technology Systems		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Asset Management Systems		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Office Buildings, Depots and Workshops		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Non Network Land		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Office Furniture and Equipment		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Motor Vehicles		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tools, Plant and Machinery		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Project/Programme			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Total Project	Next Period (Real) Expenditure Components					
	Labour	Materials			Other	Total
		Cables/Conductor	Transformers	Switchgear		
%	%	%	%	%	%	
P						
r						
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c						
t						
C						
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m						
p						
o						
n						
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t						

Project costs by source	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)
	Current Period (Actual)					Assessment Period (Forecast)		Next Period					
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
EDB	-	-	-	-	-	-	-	-	-	-	-	-	-
Related party	-	-	-	-	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-	-	-	-	-
To be tendered	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Project/Programme													

FY19 (CPP3)

Project/Programme Name:	Urban Major West
Project/Programme Reference:	3
Project/Programme Description:	Subtransmission reinforcement to provide for increased capacity and security of supply in western Christchurch
CPP Reference:	CPP3
Service Category:	(a) Provide and operate network infrastructure
Capex Category:	Major Projects

Service Categories
(a) Provide and operate network infrastructure
(b) Provide load management services
(c) Provide connection services
(d) Rearrangement of assets at 3rd party request
(e) Other (please describe)

Capex Categories
(a) Customer Connection / Network Extension
(b) Reinforcement
(c) Major Projects
(d) Replacement
(e) Underground Conversions
(f) Asset Acquisitions
(g) Non-System Fixed Assets

Asset Category	Asset Type	IM Standard Life	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)			
			Current Period (Actual)					Assessment Period (Forecast)		Next Period								
			FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19				
Assets owned by the EDB but installed at bulk supply points owned by others																		
	Subtotal																	
Sub-transmission network including power transformers	Subtransmission																	
	66 kV Overhead lines (concrete pole)	60																
	66 kV Overhead lines (wood pole)	45																
	66 kV Overhead lines (towers)	60																
	66 kV Underground cables (PILC)	70																
	66 kV Underground cables (XLPE)	55																
	33 kV Overhead lines (concrete pole)	60																
	33 kV Overhead lines (wood pole)	45																
	33 kV Underground cables (PILC)	70																
	33 kV Underground cables (XLPE)	55																
	Pilot / Communications Circuits	45																
	Substations																	
	Zone sub land	-																
	Zone sub site development and buildings	70																
	Power Transformers	45																
Protection (electromechanical)	40																	
Protection (digital)	20																	
Outdoor Structure (concrete pole)	60																	
Outdoor Structure (wood pole)	45																	
DC Supplies, batteries and inverters	20																	
Other Items	40																	
	Subtotal																	
Distribution network including distribution transformers	Distribution Conductors																	
	11 kV Overhead lines (concrete pole)	60																
	11 kV Overhead lines (wood pole)	45																
	11 kV Underground cables (PILC)	70																
	11 kV Underground cables (XLPE)	55																
	Distribution Substations																	
	Distribution sub land	-																
	Distribution transformers (pole, 1ph/2ph/3ph)	45																
	Distribution substations mount (pole)	45																
	Distribution substations mount (pad)	55																
Distribution substation mount (building & in customer building)	70																	
	Subtotal																	
Switchgear (All voltages)	Surge Diverters (3ph, 66/33kV) / Air break isolators (66/33kV)	35																
	Indoor circuit breakers and switchgear (66/33/11kV)	45																
	Outdoor circuit breakers and switchgear (66/33/11kV)	40																
	11kV Disconnectors & Dropout fuses	35																
	11kV voltage regulators	55																
	Subtotal																	
Low voltage distribution network	LV Overhead lines (concrete pole)	60																
	LV Overhead lines (wood pole)	45																
	LV Underground cables (PILC)	70																
	LV Underground cables (XLPE)	55																
	Link Pillars & LV customer service connections	45																
	Subtotal																	
Supporting or secondary systems	Ripple Injection Plant	20																
	SCADA	15																
	Communications Equipment	15																
	Metering systems	30																
	Power factor correction plant	35																
	EDB-owned mobile substations and generators	15																
	Other generation plant owned by the EDB																	
	Easements																	
Spares (not included above)																		
	Subtotal																	
Non system fixed assets	Information and Technology Systems																	
	Asset Management Systems																	
	Office Buildings, Depots and Workshops																	
	Non Network Land																	
	Office Furniture and Equipment																	
	Motor Vehicles																	
Tools, Plant and Machinery																		
	Subtotal																	
Total Project/Programme																		

Total Project	Next Period (Real) Expenditure Components					
	Labour	Materials			Other	Total
		Cables/Conductor	Transformers	Switchgear		
%	%	%	%	%	%	
	-	-	-	-	-	-
P	-	-	-	-	-	-
r	-	-	-	-	-	-
o	-	-	-	-	-	-
j	-	-	-	-	-	-
e	-	-	-	-	-	-
c	-	-	-	-	-	-
t	-	-	-	-	-	-
C	-	-	-	-	-	-
o	-	-	-	-	-	-
m	-	-	-	-	-	-
p	-	-	-	-	-	-
o	-	-	-	-	-	-
n	-	-	-	-	-	-
e	-	-	-	-	-	-
n	-	-	-	-	-	-
t	-	-	-	-	-	-

Project costs by source	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)
	Current Period (Actual)					Assessment Period (Forecast)		Next Period					
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
EDB													
Related party													
Other sources													
To be tendered													
Total Project/Programme													

FY16 (CPP5)

Project/Programme Name:	Major Urban South
Project/Programme Reference:	5
Project/Programme Description:	Subtransmission reinforcement to provide for increased capacity or security of supply in southern Christchurch
CPP Reference:	CPP5
Service Category:	(a) Provide and operate network infrastructure
Capex Category:	Major Projects

Service Categories
(a) Provide and operate network infrastructure
(b) Provide load management services
(c) Provide connection services
(d) Rearrangement of assets at 3rd party request
(e) Other (please describe)

Capex Categories
(a) Customer Connection / Network Extension
(b) Reinforcement
(c) Major Projects
(d) Replacement
(e) Underground Conversions
(f) Asset Acquisitions
(g) Non-System Fixed Assets

Asset Category	Asset Type	IM Standard Life	Nominal terms (\$)					Real terms (\$FY13)								Total (Next Period)
			Current Period (Actual)					Assessment Period (Forecast)		Next Period				Total (Next Period)		
			FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18		FY19	
Assets owned by the EDB but installed at bulk supply points owned by others																
	Subtotal															
Subtransmission																
Sub-transmission network including power transformers	66 kV Overhead lines (concrete pole)	60														
	66 kV Overhead lines (wood pole)	45														
	66 kV Overhead lines (towers)	60														
	66 kV Underground cables (PILC)	70														
	66 kV Underground cables (XLPE)	55														
	33 kV Overhead lines (concrete pole)	60														
	33 kV Overhead lines (wood pole)	45														
	33 kV Underground cables (PILC)	70														
	33 kV Underground cables (XLPE)	55														
	Pilot / Communications Circuits	45														
	Substations															
	Zone sub land	-														
	Zone sub site development and buildings	70														
	Power Transformers	45														
	Protection (electromechanical)	40														
Protection (digital)	20															
Outdoor Structure (concrete pole)	60															
Outdoor Structure (wood pole)	45															
DC Supplies, batteries and inverters	20															
Other items	40															
	Subtotal															
Distribution Conductors																
Distribution network including distribution transformers	11 kV Overhead lines (concrete pole)	60														
	11 kV Overhead lines (wood pole)	45														
	11 kV Underground cables (PILC)	70														
	11 kV Underground cables (XLPE)	55														
	Distribution Substations															
	Distribution sub land	-														
	Distribution transformers (pole, 1ph/2ph/3ph)	45														
	Distribution transformers (pad)	55														
	Distribution substations mount (pole)	45														
	Distribution substations mount (pad)	55														
	Distribution substation mount (building & in customer building)	70														
		Subtotal														
	Switchgear (All voltages)															
	Surge Diverters (3ph, 66/33kV) / Air break isolators (66/33kV)	35														
	Indoor circuit breakers and switchgear (66/33/11kV)	45														
Outdoor circuit breakers and switchgear (66/33/11kV)	40															
11kV Disconnectors & Dropout fuses	35															
11kV voltage regulators	55															
	Subtotal															
Low voltage distribution network																
LV Overhead lines (concrete pole)	60															
LV Overhead lines (wood pole)	45															
LV Underground cables (PILC)	70															
LV Underground cables (XLPE)	55															
Link Pillars & LV customer service connections	45															
	Subtotal															
Supporting or secondary systems																
Ripple Injection Plant	20															
SCADA	15															
Communications Equipment	15															
Metering systems	30															
Power factor correction plant	35															
EDB-owned mobile substations and generators	15															
Other generation plant owned by the EDB																
Easements																
Spares (not included above)																
	Subtotal															
Non system fixed assets																
Information and Technology Systems																
Asset Management Systems																
Office Buildings, Depots and Workshops																
Non Network Land																
Office Furniture and Equipment																
Motor Vehicles																
Tools, Plant and Machinery																
	Subtotal															
Total Project/Programme																

Next Period (Real) Expenditure Components					
Labour	Materials			Other	Total
	Cables/Conductor	Transformers	Switchgear		
%	%	%	%	%	%
Total Project	-	-	-	-	-

P	-	-	-	-	-	-
r	-	-	-	-	-	-
o	-	-	-	-	-	-
j	-	-	-	-	-	-
e	-	-	-	-	-	-
c	-	-	-	-	-	-
t	-	-	-	-	-	-
C	-	-	-	-	-	-
o	-	-	-	-	-	-
m	-	-	-	-	-	-
p	-	-	-	-	-	-
o	-	-	-	-	-	-
n	-	-	-	-	-	-
e	-	-	-	-	-	-
n	-	-	-	-	-	-
t	-	-	-	-	-	-

Project costs by source	Nominal terms (\$)					Real terms (\$FY13)								Total (Next Period)
	Current Period (Actual)					Assessment Period (Forecast)		Next Period				Total (Next Period)		
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18		FY19	
EDB														
Related party														
Other sources														
To be tendered														
Total Project/Programme														

CPP7 >

CPP8 >

CPP9 >

CPP10 >

CPP11 >

CPP12 >

CPP13 >

CPP14 >

CPP15 >

CPP16 >

CPP17 >

CPP18 >

CPP19 >

CPP20 >

FY16 (CPP20)

Project/Programme Name:	Major Rural GFN
Project/Programme Reference:	20
Project/Programme Description:	Assets to improve safety and reliability on our rural overhead network
CPP Reference:	CPP20
Service Category:	(a) Provide and operate network infrastructure
Capex Category:	Major Projects

Service Categories
(a) Provide and operate network infrastructure
(b) Provide load management services
(c) Provide connection services
(d) Rearrangement of assets at 3rd party request
(e) Other (please describe)

Capex Categories
(a) Customer Connection / Network Extension
(b) Reinforcement
(c) Major Projects
(d) Replacement
(e) Underground Conversions
(f) Asset Acquisitions
(g) Non-System Fixed Assets

Asset Category	Asset Type	IM Standard Life	Nominal terms (\$)					Real terms (\$FY13)									Total (Next Period)
			Current Period (Actual)					Assessment Period (Forecast)				CPP Period (Forecast)					
			FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19			
Subtotal																	
Sub-transmission network including power transformers																	
<i>Subtransmission</i>																	
	66 kV Overhead lines (concrete pole)	60															
	66 kV Overhead lines (wood pole)	45															
	66 kV Overhead lines (towers)	60															
	66 kV Underground cables (PILC)	70															
	66 kV Underground cables (XLPE)	55															
	33 kV Overhead lines (concrete pole)	60															
	33 kV Overhead lines (wood pole)	45															
	33 kV Underground cables (PILC)	70															
	33 kV Underground cables (XLPE)	55															
	Pilot / Communications Circuits	45															
<i>Substations</i>																	
	Zone sub land	-															
	Zone sub site development and buildings	70															
	Power Transformers	45															
	Protection (electromechanical)	40															
	Protection (digital)	20															
	Outdoor Structure (concrete pole)	60															
	Outdoor Structure (wood pole)	45															
	DC Supplies, batteries and inverters	20															
	Other items	40															
Subtotal																	
Distribution network including distribution transformers																	
<i>Distribution Conductors</i>																	
	11 kV Overhead lines (concrete pole)	60															
	11 kV Overhead lines (wood pole)	45															
	11 kV Underground cables (PILC)	70															
	11 kV Underground cables (XLPE)	55															
<i>Distribution Substations</i>																	
	Distribution sub land	-															
	Distribution transformers (pole, 1ph/2ph/3ph)	45															
	Distribution transformers (pad)	55															
	Distribution substations mount (pole)	45															
	Distribution substations mount (pad)	55															
	Distribution substation mount (building & in customer building)	70															
Subtotal																	
Switchgear (All voltages)																	
	Surge Diverters (3ph, 66/33kV) / Air break isolators (66/33kV)	35															
	Indoor circuit breakers and switchgear (66/33/11kV)	45															
	Outdoor circuit breakers and switchgear (66/33/11kV)	40															
	11kV Disconnectors & Dropout fuses	35															
	11kV voltage regulators	55															
Subtotal																	
Low voltage distribution network																	
	LV Overhead lines (concrete pole)	60															
	LV Overhead lines (wood pole)	45															
	LV Underground cables (PILC)	70															
	LV Underground cables (XLPE)	55															
	Link Pillars & LV customer service connections	45															
Subtotal																	
Supporting or secondary systems																	
	Nipple Injection Plant	20															
	SCADA	15															
	Communications Equipment	15															
	Metering systems	30															
	Power factor correction plant	35															
	EDB-owned mobile substations and generators	15															
	Other generation plant owned by the EDB																
	Easements																
	Spares (not included above)																
Subtotal																	
Non system fixed assets																	
	Information and Technology Systems																
	Asset Management Systems																
	Office Buildings, Depots and Workshops																
	Non Network Land																
	Office Furniture and Equipment																
	Motor Vehicles																
	Tools, Plant and Machinery																
Subtotal																	
Total Project/Programme																	

Project	Next Period (Real) Expenditure Components					
	Labour	Materials			Other	Total
		Cables/Conductor	Transformers	Switchgear		
%	%	%	%	%	%	
Total	-	-	-	-	-	-
P	-	-	-	-	-	-
r	-	-	-	-	-	-
o	-	-	-	-	-	-
j	-	-	-	-	-	-
e	-	-	-	-	-	-
c	-	-	-	-	-	-
t	-	-	-	-	-	-
C	-	-	-	-	-	-
o	-	-	-	-	-	-
m	-	-	-	-	-	-
p	-	-	-	-	-	-
o	-	-	-	-	-	-
n	-	-	-	-	-	-
e	-	-	-	-	-	-
n	-	-	-	-	-	-
t	-	-	-	-	-	-

Project costs by source	Nominal terms (\$)					Real terms (\$FY13)									Total (Next Period)
	Current Period (Actual)					Assessment Period (Forecast)				CPP Period (Forecast)					
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19			
EDB															
Related party															
Other sources															
To be tendered															
Total Project/Programme	-	-	-	-	-	-	-	-	-	-	-	-	-		

Other Projects Capex Summary

Sheet	Project/Programme Name	Service Category	Capex Category	Nominal terms (\$)					Real terms (\$FY13)					Total (Next Period)		
				FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17		FY18	FY19
CPP50	Underground conversions	(d) Rearrangement of assets at 3rd party request	Underground Conversions	-	-	2,587,597	2,475,258	3,626,625	2,300,000	6,100,000	1,500,000	5,500,000	3,300,000	1,250,000	750,000	20,700,000
CPP51	Urban Reinforcement	(a) Provide and operate network infrastructure	Reinforcement	-	-	3,995,648	4,949,100	2,465,963	1,672,908	3,865,814	3,830,573	2,269,544	2,885,473	2,990,226	2,250,007	19,764,546
CPP52	Rural Reinforcement	(a) Provide and operate network infrastructure	Reinforcement	-	-	1,308,279	369,220	2,013,955	2,476,951	634,191	669,421	2,230,453	1,614,531	1,509,772	2,250,003	11,385,321
CPP53	Connections and Extensions	(c) Provide connection services	Customer Connection/Network Extension	-	-	5,112,637	6,057,736	6,897,556	9,650,000	11,915,000	13,095,000	13,435,000	12,335,000	10,985,000	10,395,000	81,810,000
CPP54	Spur asset acquisitions	(a) Provide and operate network infrastructure	Asset Acquisitions	-	-	-	-	-	4,188,087	2,700,220	16,784,347	9,419,435	1,197,647	-	-	34,289,736
Total Project/Programme (excluding spur asset transfers)				-	-	13,004,161	13,851,314	15,004,099	16,099,859	22,515,004	19,094,994	23,434,997	20,135,005	16,734,998	15,645,010	133,659,867

Note: Spur Asset Transfers are not included in the sum calculation. They enter the RAB through the acquired assets model.

CPP50 >

CPP51 >

CPP52 >

CPP53 >

Replacement Capex Summary

Sheet	Project/Programme Name	Service Category	Capex Category	Nominal terms (\$)					Real terms (\$FY13)							Total (Next Period)
				FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
CPP30	Overhead lines subtransmission	(a) Provide and operate network infrastructure	Replacement	228,113	207,738	231,271	250,233	428,119	340,000	340,000	340,000	2,040,000	340,000	340,000	340,000	4,080,000
CPP31	Overhead lines 11kV and 400V	(a) Provide and operate network infrastructure	Replacement	2,492,840	2,935,627	3,720,952	2,427,386	2,422,885	2,625,000	2,675,000	2,675,000	2,675,000	2,675,000	2,675,000	2,675,000	18,675,000
CPP32	Underground cables 11kV and 400V	(a) Provide and operate network infrastructure	Replacement	-	-	38,081	156,209	123,465	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	14,000,000	
CPP33	Pilots and protection	(a) Provide and operate network infrastructure	Replacement	669,289	1,121,554	1,033,713	1,586,013	2,187,453	2,640,000	2,352,000	2,244,000	2,673,000	2,706,000	2,564,000	17,882,000	
CPP34	Control systems	(a) Provide and operate network infrastructure	Replacement	-	-	-	-	-	1,765,000	1,585,000	1,515,000	1,535,000	1,415,000	1,375,000	10,845,000	
CPP35	Load management systems	(b) Provide load management services	Replacement	10,756	23,329	-	7,060	181,367	790,000	490,000	130,000	1,480,000	940,000	940,000	5,230,000	
CPP36	Switchgear	(a) Provide and operate network infrastructure	Replacement	2,955,606	3,336,598	6,083,673	5,043,147	3,154,833	9,239,000	9,170,000	9,343,000	9,031,000	10,949,000	8,808,000	66,420,000	
CPP37	Transformers	(a) Provide and operate network infrastructure	Replacement	643,083	790,472	458,509	738,692	721,887	1,445,000	2,320,000	2,160,000	2,160,000	2,160,000	1,910,000	14,065,000	
CPP38	Substations	(a) Provide and operate network infrastructure	Replacement	266,790	316,618	544,734	108,124	604,864	685,000	495,000	425,000	425,000	425,000	425,000	3,305,000	
CPP39	Buildings and grounds	(a) Provide and operate network infrastructure	Replacement	117,814	53,201	475,086	185,822	55,423	700,000	715,000	1,215,000	715,000	715,000	715,000	6,740,000	
CPP40	Meters	(a) Provide and operate network infrastructure	Replacement	67,087	7,507	-	-	11,339	160,000	130,000	130,000	180,000	80,000	80,000	890,000	
CPP41	Underground cables subtransmission	(a) Provide and operate network infrastructure	Replacement	-	-	546,994	201,035	510,560	50,000	-	-	-	-	-	50,000	
CPP42	Asset management systems	(a) Provide and operate network infrastructure	Replacement	-	-	-	-	-	239,042	300,599	1,020,599	150,599	900,599	1,020,599	3,782,636	
CPP43	Distribution management system	(a) Provide and operate network infrastructure	Replacement	999,113	626,907	1,228,034	761,557	778,386	225,000	780,000	940,000	690,000	610,000	810,000	4,665,000	
Total Project/Programme				8,450,491	9,419,551	14,361,047	11,465,278	11,180,581	22,903,042	23,352,599	24,137,599	25,754,599	25,915,599	23,662,599	24,903,599	170,629,636

Other

CPP36

Project/Programme Name:
Project/Programme Reference:
Project/Programme Description:

Switchgear	36
Switchgear replacement programme	
	CPP36
(a) Provide and operate network infrastructure Replacement	

CPP Reference:
Service Category:
Capex Category:

Service Categories
(a) Provide and operate network infrastructure
(b) Provide load management services
(c) Provide connection services
(d) Rearrangement of assets at 3rd party request
(e) Other (please describe)

Capex Categories
(a) Customer Connection / Network Extension
(b) Reinforcement
(c) Major Projects
(d) Replacement
(e) Underground Conversions
(f) Asset Acquisitions
(g) Non-System Fixed Assets

Asset Category	Asset Type	FY08 + year ended 31 March 2008 IM Standard Life	Nominal terms (\$)					Real terms (\$FY13)								Total (Next Period)	
			Current Period (Actual)					Assessment Period (Forecast)		Next Period							
			FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19			
Assets owned by the EDB but installed at bulk supply points owned by others																	
	Subtotal																
Sub-transmission network including power transformers	Subtransmission																
	66 kV Overhead lines (concrete pole)	60															
	66 kV Overhead lines (wood pole)	45															
	66 kV Overhead lines (towers)	60															
	66 kV Underground cables (PILC)	70															
	66 kV Underground cables (XLPE)	55															
	33 kV Overhead lines (concrete pole)	60															
	33 kV Overhead lines (wood pole)	45															
	33 kV Underground cables (PILC)	70															
	33 kV Underground cables (XLPE)	55															
	Pilot / Communications Circuits	45															
	Substations																
	Zone sub land	-															
	Zone sub site development and buildings	70															
	Power Transformers	45															
	Protection (electromechanical)	40															
	Protection (digital)	20															
	Outdoor Structure (concrete pole)	60															
	Outdoor Structure (wood pole)	45															
	DC Supplies, batteries and inverters	20															
Other Items	40																
	Subtotal																
Distribution network including distribution transformers	Distribution Conductors																
	11 kV Overhead lines (concrete pole)	60															
	11 kV Overhead lines (wood pole)	45															
	11 kV Underground cables (PILC)	70															
	11 kV Underground cables (XLPE)	55															
	Distribution Substations																
	Distribution sub land	-															
	Distribution transformers (pole, 1ph/2ph/3ph)	45															
	Distribution transformers (pad)	55															
	Distribution substations mount (pole)	45															
Distribution substations mount (pad)	55																
Distribution substation mount (building & in customer building)	70																
	Subtotal																
Switchgear (All voltages)	Surge Diverters (3ph, 66/33kV) / Air break isolators (66/33kV)	35															
	Indoor circuit breakers and switchgear (66/33/11kV)	45	2,450,049	2,081,985	1,831,404	2,266,841	1,946,798	4,785,000	4,574,000	5,871,000	5,179,000	5,078,000	5,265,000	5,648,000	36,400,000	40%	
	Outdoor circuit breakers and switchgear (66/33/11kV)	40	-	-	2,042,898	336,850	-	829,000	971,000	1,447,000	1,827,000	3,846,000	1,518,000	2,207,000	12,645,000	40%	
	11kV Disconnectors & Dropout fuses	35	-	-	384,004	167,940	-	900,000	385,000	385,000	385,000	385,000	385,000	385,000	3,210,000	40%	
	11kV voltage regulators	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Subtotal		2,450,049	2,081,985	4,258,306	2,771,631	2,217,669	6,514,000	5,930,000	7,703,000	7,391,000	9,309,000	7,168,000	8,240,000	52,255,000		
Low voltage distribution network	LV Overhead lines (concrete pole)	60															
	LV Overhead lines (wood pole)	45															
	LV Underground cables (PILC)	70															
	LV Underground cables (XLPE)	55															
	Link Pillars & LV customer service connections	45	505,557	1,254,613	1,825,367	2,271,516	937,164	2,725,000	3,240,000	1,640,000	1,640,000	1,640,000	1,640,000	1,640,000	14,165,000	40%	
	Subtotal		505,557	1,254,613	1,825,367	2,271,516	937,164	2,725,000	3,240,000	1,640,000	1,640,000	1,640,000	1,640,000	1,640,000	14,165,000		
Supporting or secondary systems	Ripple Injection Plant	20															
	SCADA	15															
	Communications Equipment	15															
	Metering systems	30															
	Power factor correction plant	35															
	EDB-owned mobile substations and generators	15															
	Other generation plant owned by the EDB	-															
	Easements	-															
	Spares (not included above)	-															
	Subtotal																
Non system fixed assets	Information and Technology Systems																
	Asset Management Systems																
	Office Buildings, Depots and Workshops																
	Non Network Land																
	Office Furniture and Equipment																
	Motor Vehicles																
Tools, Plant and Machinery																	
	Subtotal																
Total Project/Programme			2,955,606	3,336,598	6,083,673	5,043,147	3,154,833	9,239,000	9,170,000	9,343,000	9,031,000	10,949,000	8,808,000	9,880,000	66,420,000		

Total Project	Next Period (Real) Expenditure Components					
	Labour	Materials			Other	Total
		Cables/Conductor	Transformers	Switchgear		
%	%	%	%	%	%	
	-	-	-	-	-	-
P	-	-	-	-	-	-
r	-	-	-	-	-	-
o	-	-	-	-	-	-
j	-	-	-	-	-	-
e	-	-	-	-	-	-
c	-	-	-	-	-	-
t	-	-	-	-	-	-
C	-	-	-	-	-	-
o	-	-	-	-	-	-
m	-	-	-	-	-	-
p	-	-	-	-	-	-
n	-	-	-	-	-	-
e	-	-	-	-	-	-
n	-	-	-	-	-	-
t	-	-	-	-	-	-

Project costs by source	Nominal terms (\$)					Real terms (\$FY13)								Total (Next Period)	
	Current Period (Actual)					Assessment Period (Forecast)		Next Period							
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19			
EDB	-	-	4,687	1,742	1,677	-	-	-	-	-	-	-	-	-	-
Related party	-	-	1,188,665	1,724,314	322,129	-	-	-	-	-	-	-	-	-	-
Other sources	2,955,606	3,336,598	4,890,321	3,317,091	2,831,027	9,239,000	9,170,000	9,343,000	9,030,000	10,949,000	8,808,000	9,880,000	66,419,000		
To be tendered	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Project/Programme	2,955,606	3,336,598	6,083,673	5,043,147	3,154,833	9,239,000	9,170,000	9,343,000	9,030,000	10,949,000	8,808,000	9,880,000	66,419,000		

Non System Fixed Assets Capex Summary

Sheet	Project/Programme Name	Service Category	Capex Category	Nominal terms (\$)					Real terms (\$FY13)					Total (Next Period)		
				FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17		FY18	FY19
CPP60	Head office building	(e) Other	Non System Fixed Assets	-	-	-	-	-	14,900,000	4,500,000	-	-	-	-	-	19,400,000
CPP62	Sundry land and building	(e) Other	Non System Fixed Assets	323,000	375,000	119,000	35,000	1,032,000	560,000	250,000	250,000	250,000	250,000	250,000	250,000	2,060,000
CPP63	Vehicles and mobile plant	(e) Other	Non System Fixed Assets	626,000	1,122,000	278,000	270,000	855,000	1,092,000	841,000	253,000	723,000	785,000	1,000,000	605,000	5,299,000
CPP64	Information and technology	(e) Other	Non System Fixed Assets	1,655,000	3,454,000	3,507,000	1,681,000	2,953,000	2,958,000	1,581,000	1,145,000	1,869,000	674,000	1,266,000	731,000	10,224,000
CPP65	Sundry tools, equipment, furniture and fittings	(e) Other	Non System Fixed Assets	156,000	312,000	230,000	926,000	1,040,000	520,000	570,000	615,000	575,000	575,000	575,000	575,000	4,005,000
Total Project/Programme				2,760,000	5,263,000	4,134,000	2,912,000	5,880,000	20,030,000	7,742,000	2,263,000	3,417,000	2,284,000	3,091,000	2,161,000	40,988,000

