COMMERCE COMMISSION NEW ZEALAND

EDB Information Disclosure Requirements

Information Templates

for

Schedules 1–10

Company Name	WEL Networks Limited
Disclosure Date	28 August 2015
Disclosure Year (year ended)	31 March 2015

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 24 March 2015

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Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
Operational expenditure	14,784	206	72,471	3,371	21,489
Network	6,066	84	29,735	1,383	8,817
Non-network	8,718	121	42,735	1,988	12,672
Expenditure on assets	45,219	630	221,655	10,310	65,727
Network	40,826	569	200,122	9,308	59,341
Non-network	4,393	61	21,534	1,002	6,385

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	80,204	1,117
Standard consumer line charge revenue	81,441	1,103
Non-standard consumer line charge revenue	37,164	179,175

1(iii): Service intensity measures

Demand density	47	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	228	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	16	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	13,926	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	17,858	17.68%
Pass-through and recoverable costs excluding financial incentives and wash-ups	31,535	31.23%
Total depreciation	19,241	19.05%
Total revaluations	398	0.39%
Regulatory tax allowance	8,581	8.50%
Regulatory profit/(loss) including financial incentives and wash-ups	24,174	23.94%
Total regulatory income	100,990	

1(v): Reliability

Interruption rate	21.48	*Interruptions per 100 circuit km*

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).
EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

2(i): Return on Investment

	CY-2 31 Mar 13 %	CY-1 31 Mar 14 %	Current Year CY 31 Mar 15 %
ROI – comparable to a post tax WACC			
Reflecting all revenue earned	6.50%	6.10%	4.49%
Excluding revenue earned from financial incentives	6.50%	6.10%	4.49%
Excluding revenue earned from financial incentives and wash-ups	6.50%	6.10%	4.49%
Mid-point estimate of post tax WACC	5.85%	5.43%	6.10%
25th percentile estimate	5.13%	4.71%	5.39%
75th percentile estimate	6.56%	6.14%	6.82%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	7.27%	6.79%	5.27%
Excluding revenue earned from financial incentives	7.27%	6.79%	5.27%
Excluding revenue earned from financial incentives and wash-ups	7.27%	6.79%	5.27%
WACC rate used to set regulatory price path			
Mid-point estimate of vanilla WACC	6.62%	6.11%	6.89%
25th percentile estimate	5.91%	5.39%	6.17%
75th percentile estimate	7.34%	6.83%	7.60%

2(ii): Information Supporting the ROI

		($000)		
	Total opening RAB value	475,614		
plus	Opening deferred tax	(17,505)		
Opening RIV			458,109	
Line charge revenue			96,877	
	Expenses cash outflow	49,393		
add	Assets commissioned	30,676		
less	Asset disposals	601		
add	Tax payments	4,047		
less	Other regulated income	4,113		
Mid-year net cash outflows			79,401	
Term credit spread differential allowance			–	
	Total closing RAB value	486,846		
less	Adjustment resulting from asset allocation	(0)		
less	Lost and found assets adjustment	–		
plus	Closing deferred tax	(22,038)		
Closing RIV			464,808	
ROI – comparable to a vanilla WACC				5.27%
	Leverage (%)			44%
	Cost of debt assumption (%)			6.36%
	Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC				4.49%

2(iii): Information Supporting the Monthly ROI

Opening RIV	N/A

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April						–
May						–
June						–
July						–
August						–
September						–
October						–
November						–
December						–
January						–
February						–
March						–
Total	–	–	–	–	–	–

Tax payments	N/A
Term credit spread differential allowance	N/A
Closing RIV	N/A
Monthly ROI – comparable to a vanilla WACC	N/A
Monthly ROI – comparable to a post tax WACC	N/A

2(iv): Year-End ROI Rates for Comparison Purposes

Year-end ROI – comparable to a vanilla WACC	5.11%
Year-end ROI – comparable to a post tax WACC	4.32%

** these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.*

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref			($000)
7	**3(i): Regulatory Profit**		
8		**Income**	
9		Line charge revenue	96,877
10	*plus*	Gains / (losses) on asset disposals	(437)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)	4,551
12			
13		**Total regulatory income**	100,990
14		**Expenses**	
15	*less*	Operational expenditure	17,858
16			
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups	31,535
18			
19		**Operating surplus / (deficit)**	51,597
20			
21	*less*	Total depreciation	19,241
22			
23	*plus*	Total revaluations	398
24			
25		**Regulatory profit / (loss) before tax**	32,755
26			
27	*less*	Term credit spread differential allowance	–
28			
29	*less*	Regulatory tax allowance	8,581
30			
31		**Regulatory profit/(loss) including financial incentives and wash-ups**	24,174
32			

			($000)	
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**			
34		**Pass through costs**		
35		Rates	370	
36		Commerce Act levies	21	
37		Industry levies	247	
38		CPP specified pass through costs	659	
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	24,342	
41		Transpower new investment contract charges	2,607	
42		System operator services	–	
43		Distributed generation allowance	3,289	
44		Extended reserves allowance	–	
45		Other recoverable costs excluding financial incentives and wash-ups	–	
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		31,535
47				

3(iii): Incremental Rolling Incentive Scheme

($000)

	CY-1 31 Mar 14	CY 31 Mar 15
Allowed controllable opex	–	–
Actual controllable opex	–	–
Incremental change in year		–

		Previous years' incremental change	Previous years' incremental change adjusted for inflation
CY-5	31 Mar 10	–	–
CY-4	31 Mar 11	–	–
CY-3	31 Mar 12	–	–
CY-2	31 Mar 13	–	–
CY-1	31 Mar 14	–	–
Net incremental rolling incentive scheme			–
Net recoverable costs allowed under incremental rolling incentive scheme			–

3(iv): Merger and Acquisition Expenditure

	($000)
Merger and acquisition expenditure	–

Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)

3(v): Other Disclosures

	($000)
Self-insurance allowance	–

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(i): Regulatory Asset Base Value (Rolled Forward)

	for year ended	RAB 31 Mar 11 ($000)	RAB 31 Mar 12 ($000)	RAB 31 Mar 13 ($000)	RAB 31 Mar 14 ($000)	RAB 31 Mar 15 ($000)
	Total opening RAB value	352,551	400,162	422,169	459,970	475,614
less	**Total depreciation**	12,527	14,603	15,874	19,644	19,241
plus	**Total revaluations**	8,511	6,279	3,611	6,999	398
plus	**Assets commissioned**	52,248	30,527	51,554	32,341	30,676
less	**Asset disposals**	622	195	1,490	4,052	601
plus	**Lost and found assets adjustment**					–
plus	**Adjustment resulting from asset allocation**					(0)
	Total closing RAB value	400,162	422,169	459,970	475,614	486,846

4(ii): Unallocated Regulatory Asset Base

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Total opening RAB value		475,614		475,614
less					
	Total depreciation		19,241		19,241
plus					
	Total revaluations		398		398
plus					
	Assets commissioned (other than below)	30,676		30,676	
	Assets acquired from a regulated supplier				
	Assets acquired from a related party				
	Assets commissioned		30,676		30,676
less					
	Asset disposals (other than below)	601		601	
	Asset disposals to a regulated supplier				
	Asset disposals to a related party				
	Asset disposals		601		601
plus	**Lost and found assets adjustment**				
plus	**Adjustment resulting from asset allocation**				(0)
	Total closing RAB value		486,846		486,846

** The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.*

4(iii): Calculation of Revaluation Rate and Revaluation of Assets

	CPI_4	1,193
	CPI_4 $^{-4}$	1,192
	Revaluation rate (%)	0.08%

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Total opening RAB value	475,614		475,614	
less	Opening value of fully depreciated, disposed and lost assets	1,006		1,006	
	Total opening RAB value subject to revaluation	474,608		474,608	
	Total revaluations		398		398

4(iv): Roll Forward of Works Under Construction

		Unallocated works under construction		Allocated works under construction	
	Works under construction—preceding disclosure year		31,905		31,905
plus	Capital expenditure	50,861		50,861	
less	Assets commissioned	30,676		30,676	
plus	Adjustment resulting from asset allocation				
	Works under construction - current disclosure year		52,090		52,090
	Highest rate of capitalised finance applied				5.00%

4(v): Regulatory Depreciation

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Depreciation - standard	15,751		15,751	
	Depreciation - no standard life assets	3,490		3,490	
	Depreciation - modified life assets				
	Depreciation - alternative depreciation in accordance with CPP				
	Total depreciation		19,241		19,241

4(vi): Disclosure of Changes to Depreciation Profiles

($000 unless otherwise specified)

Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation

** include additional rows if needed*

4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total	
Total opening RAB value		22,054	54,700	69,880	93,160	118,965	53,172	19,897	17,935	25,850	475,614	
less	Total depreciation	542	1,350	2,386	3,226	5,070	1,324	844	1,008	3,490	19,241	
plus	Total revaluations	18	46	58	78	100	45	17	15	21	398	
plus	Assets commissioned	275	723	369	4,282	8,191	3,260	2,463	438	10,676	30,676	
less	Asset disposals					80				521	601	
plus	Lost and found assets adjustment										–	
plus	Adjustment resulting from asset allocation										–	
plus	Asset category transfers										–	
Total closing RAB value		21,805	54,118	67,922	94,294	122,106	55,153	21,533	17,379	32,536	486,846	
Asset Life												
Weighted average remaining asset life		44.7	44.4	34.2	37.4	37.8	33.2	33.1	11.3	16.9		(years)
Weighted average expected total asset life		59.2	53.1	43.9	57.0	52.7	46.5	41.0	14.8	19.7		(years)

SCHEDULE 5A: REPORT ON REGULATORY TAX ALLOWANCE

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit).
EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref					
7	**5a(i): Regulatory Tax Allowance**				**($000)**
8		**Regulatory profit / (loss) before tax**			32,755
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	2,315	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	325	*	
12		Amortisation of initial differences in asset values	7,095		
13		Amortisation of revaluations	1,764		
14					11,499
15					
16	*less*	Total revaluations	398		
17		Income included in regulatory profit / (loss) before tax but not taxable	32	*	
18		Discretionary discounts and customer rebates	748		
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	–	*	
20		Notional deductible interest	12,431		
21					13,609
22					
23		**Regulatory taxable income**			30,645
24					
25	*less*	Utilised tax losses	–		
26		Regulatory net taxable income			30,645
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			8,581
30					
31	* Workings to be provided in Schedule 14				
32	**5a(ii): Disclosure of Permanent Differences**				
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).			
34	**5a(iii): Amortisation of Initial Difference in Asset Values**				**($000)**
35					
36		Opening unamortised initial differences in asset values	134,814		
37	*less*	Amortisation of initial differences in asset values	7,095		
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–		
39	*less*	Adjustment for unamortised initial differences in assets disposed	4		
40		Closing unamortised initial differences in asset values			127,714
41					
42		Opening weighted average remaining useful life of relevant assets (years)			19
43					

5a(iv): Amortisation of Revaluations

		($000)
Opening sum of RAB values without revaluations	446,658	
Adjusted depreciation	17,477	
Total depreciation	19,241	
Amortisation of revaluations		1,764

5a(v): Reconciliation of Tax Losses

		($000)
Opening tax losses	–	
plus Current period tax losses	–	
less Utilised tax losses	–	
Closing tax losses		–

5a(vi): Calculation of Deferred Tax Balance

		($000)
Opening deferred tax	(17,505)	
plus Tax effect of adjusted depreciation	4,893	
less Tax effect of tax depreciation	7,495	
plus Tax effect of other temporary differences*	–	
less Tax effect of amortisation of initial differences in asset values	1,987	
plus Deferred tax balance relating to assets acquired in the disclosure year	–	
less Deferred tax balance relating to assets disposed in the disclosure year	(54)	
plus Deferred tax cost allocation adjustment	0	
Closing deferred tax		(22,038)

5a(vii): Disclosure of Temporary Differences

In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).

5a(viii): Regulatory Tax Asset Base Roll-Forward

		($000)
Opening sum of regulatory tax asset values	248,825	
less Tax depreciation	26,767	
plus Regulatory tax asset value of assets commissioned	30,021	
less Regulatory tax asset value of asset disposals	1,423	
plus Lost and found assets adjustment	–	
plus Adjustment resulting from asset allocation	–	
plus Other adjustments to the RAB tax value	–	
Closing sum of regulatory tax asset values		250,657

SCHEDULE 5B: REPORT ON RELATED PARTY TRANSACTIONS

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID determination.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5b(i): Summary—Related Party Transactions

	($000)
Total regulatory income	–
Operational expenditure	–
Capital expenditure	–
Market value of asset disposals	–
Other related party transactions	–

5b(ii): Entities Involved in Related Party Transactions

Name of related party	Related party relationship

** include additional rows if needed*

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value

** include additional rows if needed*

SCHEDULE 5C: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5c(i): Qualifying Debt (may be Commission only)

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment
** include additional rows if needed*						–	–	–	–

5c(ii): Attribution of Term Credit Spread Differential

Gross term credit spread differential		–
Total book value of interest bearing debt		
Leverage	44%	
Average opening and closing RAB values		
Attribution Rate (%)		–
Term credit spread differential allowance		–

SCHEDULE 5D: REPORT ON COST ALLOCATIONS

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(i): Operating Cost Allocations

	Value allocated ($000s)				
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		2,505			
Not directly attributable				–	
Total attributable to regulated service		2,505			
Vegetation management					
Directly attributable		1,088			
Not directly attributable				–	
Total attributable to regulated service		1,088			
Routine and corrective maintenance and inspection					
Directly attributable		2,574			
Not directly attributable				–	
Total attributable to regulated service		2,574			
Asset replacement and renewal					
Directly attributable		1,160			
Not directly attributable				–	
Total attributable to regulated service		1,160			
System operations and network support					
Directly attributable		3,724			
Not directly attributable				–	
Total attributable to regulated service		3,724			
Business support					
Directly attributable					
Not directly attributable		6,806	2,113	8,919	
Total attributable to regulated service		6,806			
Operating costs directly attributable		11,052			
Operating costs not directly attributable	–	6,806	2,113	8,919	–
Operational expenditure		17,858			

5d(ii): Other Cost Allocations

	($000)
Pass through and recoverable costs	
Pass through costs	
Directly attributable	1,297
Not directly attributable	
Total attributable to regulated service	1,297
Recoverable costs	
Directly attributable	30,238
Not directly attributable	
Total attributable to regulated service	30,238

5d(iii): Changes in Cost Allocations* †

Change in cost allocation 1

			($000)	
			CY-1	Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in cost allocation 2

			($000)	
			CY-1	Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in cost allocation 3

			($000)	
			CY-1	Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

** a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*
† include additional rows if needed

SCHEDULE 5E: REPORT ON ASSET ALLOCATIONS

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4.
EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5e(i): Regulated Service Asset Values

	Value allocated ($000s) Electricity distribution services
Subtransmission lines	
Directly attributable	21,805
Not directly attributable	–
Total attributable to regulated service	21,805
Subtransmission cables	
Directly attributable	54,118
Not directly attributable	–
Total attributable to regulated service	54,118
Zone substations	
Directly attributable	67,922
Not directly attributable	–
Total attributable to regulated service	67,922
Distribution and LV lines	
Directly attributable	89,994
Not directly attributable	4,300
Total attributable to regulated service	94,294
Distribution and LV cables	
Directly attributable	122,106
Not directly attributable	–
Total attributable to regulated service	122,106
Distribution substations and transformers	
Directly attributable	55,153
Not directly attributable	–
Total attributable to regulated service	55,153
Distribution switchgear	
Directly attributable	21,533
Not directly attributable	–
Total attributable to regulated service	21,533
Other network assets	
Directly attributable	17,379
Not directly attributable	–
Total attributable to regulated service	17,379
Non-network assets	
Directly attributable	32,536
Not directly attributable	
Total attributable to regulated service	32,536
Regulated service asset value directly attributable	482,546
Regulated service asset value not directly attributable	4,300
Total closing RAB value	486,846

5e(ii): Changes in Asset Allocations* †

Change in asset value allocation 1

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in asset value allocation 2

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in asset value allocation 3

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

** a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*
† include additional rows if needed

SCHEDULE 6A: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		13,774
9		System growth		18,441
10		Asset replacement and renewal		11,816
11		Asset relocations		1,647
12		Reliability, safety and environment:		
13		Quality of supply	1,527	
14		Legislative and regulatory	155	
15		Other reliability, safety and environment	1,951	
16		**Total reliability, safety and environment**		3,634
17		**Expenditure on network assets**		49,313
18		Expenditure on non-network assets		5,306
19				
20		**Expenditure on assets**		54,619
21	*plus*	Cost of financing		655
22	*less*	Value of capital contributions		4,412
23	*plus*	Value of vested assets		–
24				
25		**Capital expenditure**		50,861

6a(ii): Subcomponents of Expenditure on Assets (where known)

			($000)
27		Energy efficiency and demand side management, reduction of energy losses	5,757
28		Overhead to underground conversion	562
29		Research and development	–

6a(iii): Consumer Connection

		*Consumer types defined by EDB**	($000)	($000)
32		Residential Low User (1153)	1,259	
		Residential Standard User (1154)	5,547	
		Small Business (1200)	3,172	
33		Small Scale DG Low User (1250)	–	
34		Small Scale DG Standard User (1251)	25	
35		Streetlighting (1293)	144	
		Medium Voltage (11kV) (1354)	722	
		High Voltage (33kV) (1357)	–	
		Low Voltage (400V) (1360)	2,167	
		Other Unmetered (1450)	–	
		External Embedded Networks (1651)	688	
36		Asset Specific Customer	50	
37		** include additional rows if needed*		
38		**Consumer connection expenditure**		13,774
39				
40	*less*	Capital contributions funding consumer connection expenditure	2,618	
41		**Consumer connection less capital contributions**		11,156

6a(iv): System Growth and Asset Replacement and Renewal

			System Growth ($000)	Asset Replacement and Renewal ($000)
45		Subtransmission	1,925	–
46		Zone substations	7,590	950
47		Distribution and LV lines	1,469	7,397
48		Distribution and LV cables	632	101
49		Distribution substations and transformers	480	886
50		Distribution switchgear	–	1,604
51		Other network assets	6,345	878
52		**System growth and asset replacement and renewal expenditure**	18,441	11,816
53	*less*	Capital contributions funding system growth and asset replacement and renewal	230	525
54		**System growth and asset replacement and renewal less capital contributions**	18,212	11,291

6a(v): Asset Relocations

		*Project or programme**	($000)	($000)
58		Relocations	1,086	
59		SH39a Te Kowhai / Limmer Road Widening	50	
60		Undergrounding	512	
61		-	–	
62		-	–	
63		** include additional rows if needed*		
64		All other projects or programmes - asset relocations		
65		**Asset relocations expenditure**		1,647
66	*less*	Capital contributions funding asset relocations	1,021	
67		**Asset relocations less capital contributions**		626

6a(vi): Quality of Supply

	Project or programme*	($000)	($000)
	Voltage upgrade projects due to monitoring	514	
	Power Quality	1,013	
	-	–	
	-	–	
	-	–	
	* include additional rows if needed		
	All other projects programmes - quality of supply		
	Quality of supply expenditure		1,527
less	Capital contributions funding quality of supply		
	Quality of supply less capital contributions		1,527

6a(vii): Legislative and Regulatory

	Project or programme*	($000)	($000)
	Seismic upgrades of substations	155	
	0	–	
	0	–	
	0	–	
	0	–	
	* include additional rows if needed		
	All other projects or programmes - legislative and regulatory		
	Legislative and regulatory expenditure		155
less	Capital contributions funding legislative and regulatory		
	Legislative and regulatory less capital contributions		155

6a(viii): Other Reliability, Safety and Environment

	Project or programme*	($000)	($000)
	Substation Site Security Access Project	131	
	Ground fault neutralizer installation for rural substations	756	
	Network Automation	491	
	Arc Flash protection installation	61	
	0	–	
	* include additional rows if needed		
	All other projects or programmes - other reliability, safety and environment	513	
	Other reliability, safety and environment expenditure		1,951
less	Capital contributions funding other reliability, safety and environment	19	
	Other reliability, safety and environment less capital contributions		1,933

6a(ix): Non-Network Assets

Routine expenditure

	Project or programme*	($000)	($000)
	Computer Equipment	736	
	Computer Software	2,489	
	Plant and Equipment	509	
	Motor Vehicles	1,566	
	Buildings	7	
	* include additional rows if needed		
	All other projects or programmes - routine expenditure		
	Routine expenditure		5,306

Atypical expenditure

	Project or programme*	($000)	($000)
	* include additional rows if needed		
	All other projects or programmes - atypical expenditure		
	Atypical expenditure		–
	Expenditure on non-network assets		5,306

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.
EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		($000)	($000)
7	**6b(i): Operational Expenditure**		
8	Service interruptions and emergencies	2,505	
9	Vegetation management	1,088	
10	Routine and corrective maintenance and inspection	2,574	
11	Asset replacement and renewal	1,160	
12	**Network opex**		7,327
13	System operations and network support	3,724	
14	Business support	6,806	
15	**Non-network opex**		10,531
16			
17	**Operational expenditure**		17,858
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		613
20	Direct billing*		–
21	Research and development		3
22	Insurance		437
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.
EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref				
7	**7(i): Revenue**	**Target ($000) [1]**	**Actual ($000)**	**% variance**
8	Line charge revenue	98,764	96,877	(2%)
9	**7(ii): Expenditure on Assets**	**Forecast ($000) [2]**	**Actual ($000)**	**% variance**
10	Consumer connection	7,564	13,774	82%
11	System growth	20,315	18,441	(9%)
12	Asset replacement and renewal	11,835	11,816	(0%)
13	Asset relocations	2,694	1,647	(39%)
14	Reliability, safety and environment:			
15	Quality of supply	622	1,527	146%
16	Legislative and regulatory	104	155	49%
17	Other reliability, safety and environment	2,109	1,951	(7%)
18	**Total reliability, safety and environment**	2,834	3,634	28%
19	**Expenditure on network assets**	45,242	49,313	9%
20	Expenditure on non-network assets	6,054	5,306	(12%)
21	Expenditure on assets	51,297	54,619	6%
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	2,847	2,505	(12%)
24	Vegetation management	1,237	1,088	(12%)
25	Routine and corrective maintenance and inspection	2,926	2,574	(12%)
26	Asset replacement and renewal	1,318	1,160	(12%)
27	**Network opex**	8,328	7,327	(12%)
28	System operations and network support	6,078	3,724	(39%)
29	Business support	8,572	6,806	(21%)
30	**Non-network opex**	14,650	10,531	(28%)
31	**Operational expenditure**	22,978	17,858	(22%)
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses	7,441	5,757	(23%)
34	Overhead to underground conversion	1,000	562	(44%)
35	Research and development	–	–	–
36				
37	**7(v): Subcomponents of Operational Expenditure (where known)**			
38	Energy efficiency and demand side management, reduction of energy losses	1,197	613	(49%)
39	Direct billing	–	–	–
40	Research and development	135	3	(98%)
41	Insurance	503	437	(13%)
42				
43	*1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*			
44	*2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)*			

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

Company Name	WEL Networks Limited
For Year Ended	31 March 2015
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Price component	Fixed	Fixed	Fixed	Variable Energy	Variable Reactive Energy	Peak Demand	Discount	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Add extra columns for additional billed quantities by price component as necessary
					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Days	Month	Lamps	MWh	kVARh	MW	Percentage of Total Charges	Days	Month	Lamps	MWh	kVARh	MW	
1153	Residential Low User	Standard	42,003	208,247		14,796,478	–	–	208,247	–	–	–	41,795	–	–	(3,350)	–	–	
1154	Residential Standard User	Standard	29,420	272,658		11,338,835	–	–	272,658	–	–	–	–	–	–	–	–	–	
1200	Small Business	Standard	12,016	217,293		4,404,568	–	–	217,293	–	–	–	4,896	–	–	631	–	–	
1250	Small Scale DG Low User	Standard	111	935		40,640	–	–	935	–	–	–	(461)	–	–	16	–	–	
1251	Small Scale DG Standard User	Standard	91	1,344		32,606	–	–	1,344	–	–	–	–	–	–	21	–	–	
1293	Streetlighting	Standard	33	8,442		–	–	7,888,183	8,442	–	–	–	–	–	169,861	12	–	–	
1354	Medium Voltage (11kV)	Standard	188	281,635		–	2,345	–	281,635	16,344,864	683,736	–	–	1	–	(500)	(5,466)	(987)	
1357	High Voltage (33kV)	Standard	3	21,791		–	36	–	21,791	367,872	7,436	–	–	–	–	–	–	–	
1360	Low Voltage (400V)	Standard	506	150,152		–	6,173	–	150,152	12,805,492	469,093	–	–	–	–	296	56,561	1,540	
1450	Other Unmetered	Standard	235	242		–	–	–	242	–	–	–	–	–	–	449	–	–	
1651	External Embedded Networks	Standard	2,105	11,394		660,021	–	–	11,394	–	–	–	2,045	–	–	(198)	–	–	
1496	Commercial (Asset Specific)	Non-standard	1	9,098		–	12	–	9,098	4,261	6,541	–	–	–	–	–	–	–	
1557	Commercial (Asset Specific)	Non-standard	2	17,806		–	24	–	17,806	2	41,296	–	–	–	–	–	–	–	
1630	Commercial (Asset Specific)	Non-standard	1	2,355		–	12	–	2,355	3,609,943	34,185	–	–	–	–	–	–	–	
1700	Commercial (Asset Specific)	Non-standard	3	4,489		–	69	–	4,489	8,433	9,175	–	–	–	–	–	–	–	
1361	Low Voltage Low Energy (400V)	Standard	–	–		–	–	–	–	–	–	–	–	11	–	20	5,649	129	
Add extra rows for additional consumer groups or price category codes as necessary																			
		Standard consumer totals	86,731	1,174,135		31,273,148	8,554	7,888,183	1,174,135	29,518,228	1,160,265	–	48,275	12	169,861	(2,603)	56,744	682	
		Non-standard consumer totals	7	33,748		–	117	–	33,748	3,622,639	91,197	–	–	–	–	–	–	–	
		Total for all consumers	86,738	1,207,882		31,273,148	8,671	7,888,183	1,207,882	33,140,867	1,251,462	–	48,275	12	169,861	(2,603)	56,744	682	

8(ii): Line Charge Revenues ($000) by Price Component

Line charge revenues ($000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Price component	Fixed	Fixed	Fixed	Variable Energy	Variable Reactive Energy	Peak Demand	Discount	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Prior Period Adjustment	Add extra columns for additional line charge revenues by price component as necessary
							Rate (eg, $ per day, $ per kWh, etc.)	Days	Month	Lamps/day	MWh	kVARh	kW/month	Percentage of Total Charges	Days	Month	Lamp Days	MWh	kVARh	kW/month	
1153	Residential Low User	Standard	$20,003	$5,936	$20,003			$2,220	–	–	$24,194	–	–	($5,936)	$6	–	–	($481)	–	–	
1154	Residential Standard User	Standard	$25,923	$6,418	$25,923			$9,638	–	–	$22,703	–	–	($6,418)	–	–	–	–	–	–	
1200	Small Business	Standard	$20,495	$4,777	$20,495			$3,744	–	–	$21,575	–	–	($4,777)	$1	–	–	($48)	–	–	
1250	Small Scale DG Low User	Standard	$57	$21	$57			$6	–	–	$72	–	–	($21)	($0)	–	–	($1)	–	–	
1251	Small Scale DG Standard User	Standard	$99	$38	$99			$28	–	–	$108	–	–	($38)	–	–	–	$1	–	–	
1293	Streetlighting	Standard	$1,182	$13	$1,182			–	–	$1,166	–	–	–	($13)	–	–	$25	$5	–	–	
1354	Medium Voltage (11kV)	Standard	$14,502	$310	$14,502			–	$157	–	$5,577	$507	$8,591	($310)	–	$0	–	($12)	($0)	($8)	
1357	High Voltage (33kV)	Standard	$799	$3	$799			–	$2	–	$333	$11	$455	($3)	–	–	–	–	–	–	
1360	Low Voltage (400V)	Standard	$13,335	$791	$13,335			–	$414	–	$3,724	$197	$7,565	($791)	–	–	–	$9	$2	$16	
1450	Other Unmetered	Standard	$23	$6	$23			–	–	–	$23	–	–	($6)	–	–	–	($1)	–	–	
1651	External Embedded Networks	Standard	$1,201	$29	$1,201			$84	–	–	$1,165	–	–	($29)	$0	–	–	($19)	–	–	
1496	Commercial (Asset Specific)	Non-standard	$104	$2	$104			–	$63	–	$20	$0	$23	($2)	–	–	–	–	–	–	
1557	Commercial (Asset Specific)	Non-standard	$687	$3	$687			–	$2	–	$272	$0	$416	($3)	–	–	–	–	–	–	
1630	Commercial (Asset Specific)	Non-standard	–	–	–			–	–	–	–	–	–	–	–	–	–	–	–	–	
1700	Commercial (Asset Specific)	Non-standard	$464	$5	$464			–	$241	–	$96	$0	$128	($5)	–	–	–	–	–	$3	
1361	Low Voltage Low Energy (400V)	Standard	$3	–	$3			–	–	–	–	–	–	–	–	$1	–	$1	$0	$1	
Add extra rows for additional consumer groups or price category codes as necessary																					
		Standard consumer totals	$95,623	$18,342	$95,623	–		$15,719	$574	$1,166	$79,482	$915	$16,610	($18,342)	$7	$1	$25	($545)	$2	$9	
		Non-standard consumer totals	$1,254	$10	$1,254	–		–	$305	–	$389	$0	$567	($10)	–	–	–	–	–	$3	
		Total for all consumers	$96,877	$18,352	$96,877	–		$15,719	$879	$1,166	$79,871	$915	$17,177	($18,352)	$7	$1	$25	($545)	$2	$12	

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	6	Check OK

SCHEDULE 9A: ASSET REGISTER

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	37,101	37,147	46	3
10	All	Overhead Line	Wood poles	No.	2,436	2,392	(44)	3
11	All	Overhead Line	Other pole types	No.	10	10	–	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	195	195	(0)	3
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	219	232	13	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	15	15	0	3
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	25	25	–	3
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	65	62	(3)	4
29	HV	Zone substation switchgear	33kV RMU	No.	9	9	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	89	96	7	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	31	30	(1)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	N/A
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	50	49	(1)	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,956	1,954	(2)	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	–	–	–	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	507	524	17	3
39	HV	Distribution Cable	Distribution UG PILC	km	127	125	(2)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	140	137	(3)	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	373	377	4	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	6,121	6,172	51	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	918	978	60	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	3,923	4,002	79	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	1,782	1,842	60	3
48	HV	Distribution Transformer	Voltage regulators	No.	15	15	–	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	N/A
50	LV	LV Line	LV OH Conductor	km	1,084	1,079	(5)	3
51	LV	LV Cable	LV UG Cable	km	1,138	1,174	36	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1,149	1,165	16	3
53	LV	Connections	OH/UG consumer service connections	No.	87,272	88,491	1,219	2
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	882	908	26	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	945	1,019	74	3
56	All	Capacitor Banks	Capacitors including controls	No	1	1	–	4
57	All	Load Control	Centralised plant	Lot	8	8	–	4
58	All	Load Control	Relays	No	53,387	53,693	306	1
59	All	Civils	Cable Tunnels	km	–	–	–	N/A

SCHEDULE 9B: ASSET AGE PROFILE

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref																													
8		**Disclosure Year (year ended)**	31 March 2015																										
					Number of assets at disclosure year end by installation date																							**No. with age unknown**	**Items at end of year (quantity)**	**No. with default dates**	**Data accuracy (1–4)**
9	**Voltage**	**Asset category**	**Asset class**	**Units**	**pre-1940**	**1940 –1949**	**1950 –1959**	**1960 –1969**	**1970 –1979**	**1980 –1989**	**1990 –1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**				
10	All	Overhead Line	Concrete poles / steel structure	No.	3	7	40	1,482	18,899	7,789	2,659	246	297	390	229	260	359	339	436	391	439	279	571	602	454	541	435	–	37,147	16	3
11	All	Overhead Line	Wood poles	No.	–	–	52	264	627	595	537	52	61	34	34	13	27	14	13	15	15	9	4	4	14	6	2	–	2,392	3	3
12	All	Overhead Line	Other pole types	No.	–	–	1	1	3	–	2	–	–	–	1	–	–	–	–	–	–	–	–	–	2	–	–	–	10	–	3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	–	6	63	39	23	0	13	0	3	–	8	6	1	2	0	–	30	1	1	–	1	–	195	–	3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	13	6	8	7	8	–	0	3	29	29	11	13	7	3	55	23	2	2	14	–	232	–	3
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	15	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	15	–	3
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	1	5	2	2	–	–	–	–	–	–	–	2	2	6	2	1	1	1	–	–	–	25	–	3
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	2	41	6	3	–	–	4	2	–	–	4	–	–	–	–	–	–	–	–	–	–	62	–	4
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	2	6	–	–	–	–	9	–	4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	29	–	–	–	–	–	–	–	–	18	19	–	10	13	–	–	7	–	96	–	4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	3	3	8	–	–	1	6	–	–	–	1	2	2	–	1	1	1	1	–	–	–	30	–	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	9	12	3	2	–	2	2	–	–	1	1	4	4	–	2	4	2	1	–	–	–	49	–	3
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	–	0	4	83	1,118	391	111	13	28	23	9	24	20	15	8	9	13	11	6	13	19	18	18	–	1,954	1	3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	N/A
38	HV	Distribution Line	SWER conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	–	–	44	62	45	41	16	12	20	10	15	20	25	19	30	41	20	14	24	22	23	22	–	524	–	3
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	15	50	60	0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	125	–	3
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	–	–	–	–	5	10	2	–	1	7	4	12	35	3	4	7	7	2	2	11	7	3	15	–	137	–	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	10	47	45	36	43	11	16	13	1	1	3	5	23	28	23	13	36	15	4	–	4	–	377	–	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	–	6	5	61	1,292	1,215	502	78	158	196	154	177	136	206	156	186	206	148	197	279	298	256	260	–	6,172	–	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1	–	5	42	175	80	42	9	14	48	21	25	42	49	48	42	40	44	25	54	56	54	62	–	978	–	3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	3	21	67	135	255	645	732	73	107	134	128	111	141	154	154	153	159	100	105	173	137	155	160	–	4,002	–	3
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	3	1	10	52	244	271	231	29	42	56	31	41	54	64	91	87	94	78	57	71	81	80	74	–	1,842	4	3
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	–	4	1	1	2	–	–	–	–	–	1	1	–	1	–	3	–	–	1	–	–	15	–	3
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
51	LV	LV Line	LV OH Conductor	km	–	0	1	33	493	280	124	13	16	19	12	13	17	20	10	5	4	2	2	4	4	3	4	–	1,079	2	3
52	LV	LV Cable	LV UG Cable	km	0	4	–	57	202	274	134	26	26	27	28	35	44	57	40	49	33	16	18	19	24	29	32	–	1,174	0	3
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	0	0	1	23	212	227	165	50	45	50	43	61	61	45	30	30	36	12	9	21	20	10	14	–	1,165	–	3
54	LV	Connections	OH/UG consumer service connections	No.	1	7	300	3,202	50,661	9,057	3,636	63	66	1,041	1,443	1,736	1,868	1,942	2,108	2,551	1,192	1,284	1,148	1,056	1,215	1,502	1,412	–	88,491	36,104	2
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	1	103	120	51	63	37	7	40	6	15	26	10	56	68	71	23	84	76	6	17	28	–	908	–	3
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	–	–	–	–	–	19	18	24	60	45	23	46	63	14	77	23	103	66	72	140	89	58	79	–	1,019	–	3
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	1	–	4
58	All	Load Control	Centralised plant	Lot	–	–	–	3	1	1	–	–	–	–	–	–	3	–	–	–	–	–	–	–	–	–	–	–	8	–	4
59	All	Load Control	Relays	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	53,691	53,693	–	1
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A

SCHEDULE 9C: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref				
9				
10	**Circuit length by operating voltage (at year end)**	**Overhead (km)**	**Underground (km)**	**Total circuit length (km)**
11	> 66kV	–	–	–
12	50kV & 66kV	–	–	–
13	33kV	195	247	442
14	SWER (all SWER voltages)	–	–	–
15	22kV (other than SWER)	–	–	–
16	6.6kV to 11kV (inclusive—other than SWER)	1,954	649	2,602
17	Low voltage (< 1kV)	1,080	1,173	2,253
18	**Total circuit length (for supply)**	3,229	2,069	5,298
19				
20	Dedicated street lighting circuit length (km)	265	900	1,165
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			920
22				
23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**	
24	Urban	526	16%	
25	Rural	1,991	62%	
26	Remote only	–	–	
27	Rugged only	713	22%	
28	Remote and rugged	–	–	
29	Unallocated overhead lines	–	–	
30	**Total overhead length**	3,229	100%	
31				
32		**Circuit length (km)**	**(% of total circuit length)**	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	364	7%	
34		**Circuit length (km)**	**(% of total overhead length)**	
35	Overhead circuit requiring vegetation management	3,229	100%	

SCHEDULE 9D: REPORT ON EMBEDDED NETWORKS

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

sch ref

	Location *	Number of ICPs served	Line charge revenue ($000)
9	Belfast (transferred 31/3/15)	38	43
10	Brick Street	16	106
11	Flagship	2	72
12	Half Moon Bay	59	54
13	Hulme Place	32	12
14	Jeffs Road Dannemora	877	573
15	Kirkdale	266	202
16	Oaklands	178	109
17	Porchester Road	245	142
18	Ryan Place	51	25
19	Southgate	90	56
20			
21			
22			
23			
24			
25			

26 ** Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network*

SCHEDULE 9E: REPORT ON NETWORK DEMAND

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

	*Consumer types defined by EDB**	Number of connections (ICPs)
	Residential Low User (1153)	150
	Residential Standard User (1154)	661
	Small Business (1200)	378
	Small Scale DG Low User (1250)	–
	Small Scale DG Standard User (1251)	3
	Streetlighting (1293)	1
	Medium Voltage (11kV) (1354)	5
	High Voltage (33kV) (1357)	–
	Low Voltage (400V) (1360)	15
	Other Unmetered (1450)	–
	External Embedded Networks (1651)	82
	** include additional rows if needed*	
	Connections total	1,295

Distributed generation

Number of connections made in year	118	**connections**
Capacity of distributed generation installed in year	0.37	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	244	
plus	Distributed generation output at HV and above	3	
	Maximum coincident system demand	246	
less	Net transfers to (from) other EDBs at HV and above		
	Demand on system for supply to consumers' connection points	246	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	946	
less	Electricity exports to GXPs	103	
plus	Electricity supplied from distributed generation	409	
less	Net electricity supplied to (from) other EDBs	(14)	
	Electricity entering system for supply to consumers' connection points	1,266	
less	Total energy delivered to ICPs	1,208	
	Electricity losses (loss ratio)	59	4.6%
	Load factor	0.59	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	831
Distribution transformer capacity (Non-EDB owned, estimated)	26
Total distribution transformer capacity	857
Zone substation transformer capacity	766

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

Company Name	**WEL Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

10(i): Interruptions

	Number of interruptions
Interruptions by class	
Class A (planned interruptions by Transpower)	–
Class B (planned interruptions on the network)	482
Class C (unplanned interruptions on the network)	656
Class D (unplanned interruptions by Transpower)	–
Class E (unplanned interruptions of EDB owned generation)	–
Class F (unplanned interruptions of generation owned by others)	–
Class G (unplanned interruptions caused by another disclosing entity)	–
Class H (planned interruptions caused by another disclosing entity)	–
Class I (interruptions caused by parties not included above)	–
Total	1,138

Interruption restoration	≤3Hrs	>3hrs
Class C interruptions restored within	401	255

SAIFI and SAIDI by class	SAIFI	SAIDI
Class A (planned interruptions by Transpower)	–	–
Class B (planned interruptions on the network)	0.16	24.64
Class C (unplanned interruptions on the network)	1.37	80.41
Class D (unplanned interruptions by Transpower)	–	–
Class E (unplanned interruptions of EDB owned generation)	–	–
Class F (unplanned interruptions of generation owned by others)	–	–
Class G (unplanned interruptions caused by another disclosing entity)	0.02	1.74
Class H (planned interruptions caused by another disclosing entity)	–	–
Class I (interruptions caused by parties not included above)	–	–
Total	1.55	106.8

Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
Classes B & C (interruptions on the network)	1.53	103.12

Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
SAIFI and SAIDI limits applicable to disclosure year*	–	–

** not applicable to exempt EDBs*

10(ii): Class C Interruptions and Duration by Cause

Cause	SAIFI	SAIDI
Lightning	0.11	4.27
Vegetation	0.07	4.92
Adverse weather	0.27	23.81
Adverse environment	–	–
Third party interference	0.27	19.90
Wildlife	0.11	4.53
Human error	0.15	0.69
Defective equipment	0.39	22.25
Cause unknown	0.00	0.03

10(iii): Class B Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	–	–
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.10	15.97
Distribution cables (excluding LV)	–	–
Distribution other (excluding LV)	0.06	8.68

10(iv): Class C Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.06	0.65
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.80	56.36
Distribution cables (excluding LV)	0.10	6.74
Distribution other (excluding LV)	0.41	16.66

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	2	195	1.02
Subtransmission cables	–	247	–
Subtransmission other	–		
Distribution lines (excluding LV)	323	1,954	16.53
Distribution cables (excluding LV)	30	649	4.63
Distribution other (excluding LV)	301		
Total	656		

SCHEDULE 11A: REPORT ON FORECAST CAPITAL

Company Name	**WEL Networks Limited**
AMP Planning Period	**1 April 2015 – 31 March 2025**

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)

EDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).

This information is not part of audited disclosure information.

sch ref			Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
		for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25
	11a(i): Expenditure on Assets Forecast		**$000 (in nominal dollars)**										
	Consumer connection		13,611	8,152	8,377	7,807	7,758	7,588	7,758	7,933	8,111	8,294	8,480
	System growth		18,175	11,754	7,519	10,140	9,703	12,275	10,891	8,564	7,237	6,719	7,734
	Asset replacement and renewal		11,771	11,577	13,013	10,864	12,584	15,230	13,259	13,225	14,461	14,714	13,616
	Asset relocations		1,596	1,938	2,766	2,828	2,892	2,118	2,166	2,215	2,265	2,316	2,368
	Reliability, safety and environment:												
	Quality of supply		1,493	869	889	802	711	671	686	701	717	733	750
	Legislative and regulatory		206	394	261	107	109	-	-	-	-	-	-
	Other reliability, safety and environment		1,576	2,075	3,727	2,033	1,143	1,151	1,201	2,783	992	1,014	100
	Total reliability, safety and environment		3,275	3,338	4,877	2,941	1,963	1,822	1,887	3,485	1,709	1,747	849
	Expenditure on network assets		48,428	36,760	36,552	34,581	34,899	39,033	35,962	35,421	33,784	33,789	33,048
	Non-network assets		4,100	5,039	2,399	4,273	2,073	3,100	2,680	2,213	3,720	3,257	2,016
	Expenditure on assets		52,528	41,799	38,951	38,854	36,973	42,133	38,642	37,634	37,504	37,046	35,064
	plus Cost of financing		649	854	558	594	712	795	867	843	965	1,009	895
	less Value of capital contributions		4,279	3,504	4,046	3,960	4,005	3,544	3,624	3,705	3,789	3,874	3,961
	plus Value of vested assets		-	-	-	-	-	-	-	-	-	-	-
	Capital expenditure forecast		48,898	39,149	35,463	35,488	33,680	39,384	35,885	34,772	34,680	34,182	31,998
	Value of commissioned assets		38,520	30,822	33,151	27,154	31,910	29,339	35,164	26,799	33,983	26,334	31,846

			Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
		for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25
			$000 (in constant prices)										
	Consumer connection		13,611	7,973	8,012	7,303	7,097	6,789	6,789	6,789	6,789	6,789	6,789
	System growth		18,175	11,495	7,192	9,485	8,876	10,983	9,530	7,329	6,057	5,500	6,191
	Asset replacement and renewal		11,771	11,322	12,447	10,162	11,512	13,626	11,602	11,317	12,103	12,043	10,900
	Asset relocations		1,596	1,896	2,646	2,646	2,646	1,895	1,895	1,895	1,895	1,895	1,895
	Reliability, safety and environment:												
	Quality of supply		1,493	850	850	750	650	600	600	600	600	600	600
	Legislative and regulatory		206	385	250	100	100	-	-	-	-	-	-
	Other reliability, safety and environment		1,576	2,030	3,564	1,902	1,046	1,030	1,051	2,382	830	830	80
	Total reliability, safety and environment		3,275	3,265	4,664	2,752	1,796	1,630	1,651	2,982	1,430	1,430	680
	Expenditure on network assets		48,428	35,951	34,961	32,348	31,927	34,923	31,467	30,312	28,275	27,657	26,455
	Non-network assets		4,100	4,928	2,295	3,997	1,897	2,774	2,345	1,894	3,114	2,666	1,614
	Expenditure on assets		52,528	40,879	37,256	36,345	33,824	37,697	33,812	32,206	31,388	30,323	28,069
	Subcomponents of expenditure on assets (where known)												
	Energy efficiency and demand side management, reduction of energy losses		6,117	931	347	347	347	347	347	347	347	347	347
	Overhead to underground conversion		517	250	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Research and development		-	-	-	-	-	-	-	-	-	-	-

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
for year ended		31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25
Difference between nominal and constant price forecasts		$000										
Consumer connection		-	179	365	504	661	799	970	1,144	1,323	1,505	1,692
System growth		-	259	327	655	826	1,292	1,361	1,235	1,180	1,219	1,543
Asset replacement and renewal		-	255	566	702	1,072	1,603	1,657	1,907	2,358	2,670	2,716
Asset relocations		-	43	120	183	246	223	271	319	369	420	472
Reliability, safety and environment:												
Quality of supply		-	19	39	52	61	71	86	101	117	133	150
Legislative and regulatory		-	9	11	7	9	-	-	-	-	-	-
Other reliability, safety and environment		-	46	162	131	97	121	150	401	162	184	20
Total reliability, safety and environment		-	73	212	190	167	192	236	503	279	317	169
Expenditure on network assets		-	809	1,591	2,233	2,972	4,110	4,494	5,109	5,509	6,132	6,593
Non-network assets		-	111	104	276	177	326	335	319	607	591	402
Expenditure on assets		-	920	1,695	2,509	3,148	4,436	4,829	5,428	6,115	6,723	6,995

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20
11a(ii): Consumer Connection						
*Consumer types defined by EDB**	$000 (in constant prices)					
Residential Customers	9,513	5,573	5,597	4,948	4,740	4,410
Business Customers	586	343	358	298	300	321
Large Customers - Low Voltage 400V	3,512	2,057	1,807	1,757	2,057	2,057
Large Customers - Medium Voltage 11kV	-	-	-	-	-	-
Large Customers - High Voltage 33kV	-	-	-	-	-	-
Asset Specific Customers	-	-	250	300	-	-
External Network Customers	-	-	-	-	-	-
*include additional rows if needed						
Consumer connection expenditure	13,611	7,973	8,012	7,303	7,097	6,789
less Capital contributions funding consumer connection	2,745	1,637	1,637	1,597	1,557	1,497
Consumer connection less capital contributions	10,866	6,336	6,375	5,706	5,541	5,292
11a(iii): System Growth						
Subtransmission	250	800	2,000	4,339	-	4,112
Zone substations	8,484	4,931	598	1,565	4,553	2,690
Distribution and LV lines	1,035	1,420	369	1,500	1,500	1,500
Distribution and LV cables	649	1,191	2,372	1,000	1,000	1,471
Distribution substations and transformers	500	610	500	400	400	400
Distribution switchgear	-	-	-	-	-	-
Other network assets	7,258	2,542	1,354	682	1,423	810
System growth expenditure	18,175	11,495	7,192	9,485	8,876	10,983
less Capital contributions funding system growth	-	-	-	-	-	-
System growth less capital contributions	18,175	11,495	7,192	9,485	8,876	10,983

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20
11a(iv): Asset Replacement and Renewal		**$000 (in constant prices)**					
Subtransmission		-	66	66	66	66	66
Zone substations		940	237	1,112	197	57	2,641
Distribution and LV lines		7,589	6,536	5,950	5,843	7,733	7,733
Distribution and LV cables		120	687	687	687	687	687
Distribution substations and transformers		916	1,324	1,124	1,124	624	624
Distribution switchgear		1,576	1,316	1,973	1,513	1,633	1,263
Other network assets		629	1,157	1,535	732	712	612
Asset replacement and renewal expenditure		11,771	11,322	12,447	10,162	11,512	13,626
less Capital contributions funding asset replacement and renewal		580	580	580	580	580	580
Asset replacement and renewal less capital contributions		11,191	10,742	11,867	9,582	10,932	13,046
11a(v):Asset Relocations							
*Project or programme**							
Relocations		1,079	46	46	46	928	895
Undergrounding		517	250	1,000	1,000	1,000	1,000
Transit Hamilton Bypass		-	600	700	800	718	-
Transit Huntly Bypass		-	600	500	400	-	
Longswamp		-	400	400	400	-	-
**include additional rows if needed*							
All other asset relocations projects or programmes		-	-	-	-	-	-
Asset relocations expenditure		1,596	1,896	2,646	2,646	2,646	1,895
less Capital contributions funding asset relocations		854	1,094	1,527	1,527	1,527	1,094
Asset relocations less capital contributions		741	801	1,119	1,119	1,119	801
11a(vi):Quality of Supply							
*Project or programme**							
Voltage upgrade projects due to monitoring		847	400	500	500	500	500
Power Quality - Works required to correct customer complaints		550	400	300	200	100	50
Network Work Due To DG applications		96	50	50	50	50	50
-							
**include additional rows if needed*							
All other quality of supply projects or programmes		-	-	-	-	-	-
Quality of supply expenditure		1,493	850	850	750	650	600
less Capital contributions funding quality of supply			-	-	-	-	
Quality of supply less capital contributions		1,493	850	850	750	650	600
11a(vii): Legislative and Regulatory							
*Project or programme**							
Seismic upgrades of substations		206	385	100	100	100	-
AUFLS scheme changes		-	-	150	-	-	-
**include additional rows if needed*							
All other legislative and regulatory projects or programmes		-	-	-	-	-	-
Legislative and regulatory expenditure		206	385	250	100	100	-
less Capital contributions funding legislative and regulatory		-	-	-	-	-	-
Legislative and regulatory less capital contributions		206	385	250	100	100	-

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20
11a(viii): Other Reliability, Safety and Environment							
*Project or programme**		**$000 (in constant prices)**					
UFB Fibre roll out - make ready works for the overhead fibre deployment		398	464	503	-	-	-
Ground fault neutralizer installation for rural substations		350	-	1,035	1,500	750	750
Mitigation of line clashing near zone substations		-	160	80	80	80	80
Substation Site Security Access Project		132	90	122	16	-	-
Network Automation		514	564	-	-	-	-
Install Caro Switching Station and de commissioning of Garden Place Switching Station		54	350	1,340	-	-	-
"Daisy-chained" Distribution Transformers Upgrade (Gap Analysis)		-	-	-	-	-	-
Arc Flash protection installation		58	800	600	-	-	-
*include additional rows if needed							
All other reliability, safety and environment projects or programmes		71	(398)	(115)	306	216	200
Other reliability, safety and environment expenditure		1,576	2,030	3,564	1,902	1,046	1,030
less Capital contributions funding other reliability, safety and environment		99	116	126	-	-	-
Other reliability, safety and environment less capital contributions		1,477	1,913	3,438	1,902	1,046	1,030
11a(ix): Non-Network Assets							
Routine expenditure							
*Project or programme**							
Computer Equipment		764	450	300	700	400	300
Comp Software		1,280	1,790	900	1,950	1,080	1,510
Plant and Equipment		465	724	249	229	229	229
Motor Vehicles		1,591	1,964	846	1,118	188	735
	-						
*include additional rows if needed							
All other routine expenditure projects or programmes		-	-	-	-	-	-
Routine expenditure		4,100	4,928	2,295	3,997	1,897	2,774
Atypical expenditure							
*Project or programme**							
Office and depot purchase and renovations		-	-	-	-	-	-
	-						
	-						
	-						
	-						
*include additional rows if needed							
All other atypical projects or programmes		-	-	-	-	-	-
Atypical expenditure		-	-	-	-	-	-
Non-network assets expenditure		4,100	4,928	2,295	3,997	1,897	2,774

SCHEDULE 11B: REPORT ON FORECAST OPERATIONAL EXPENDITURE

											Company Name	WEL Networks Limited
											AMP Planning Period	1 April 2015 – 31 March 2025

SCHEDULE 11b: REPORT ON FORECAST OPERATIONAL EXPENDITURE

This schedule requires a breakdown of forecast operational expenditure for the disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms.
EDBs must provide explanatory comment on the difference between constant price and nominal dollar operational expenditure forecasts in Schedule 14a (Mandatory Explanatory Notes).
This information is not part of audited disclosure information.

sch ref												
7		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
8	for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25
9	**Operational Expenditure Forecast**	**$000 (in nominal dollars)**										
10	Service interruptions and emergencies	2,558	2,842	2,806	2,767	2,725	2,680	2,633	2,582	2,528	2,471	2,410
11	Vegetation management	1,331	1,316	1,343	1,371	1,399	1,428	1,129	1,153	823	840	857
12	Routine and corrective maintenance and inspection	2,268	2,011	2,112	2,265	2,318	2,414	2,432	2,579	2,687	2,787	2,898
13	Asset replacement and renewal	1,178	2,103	2,209	2,369	2,425	2,526	2,544	2,698	2,811	2,915	3,032
14	**Network Opex**	7,335	8,273	8,470	8,772	8,866	9,048	8,738	9,011	8,849	9,013	9,198
15	System operations and network support	4,179	3,934	3,958	4,204	4,093	4,119	4,123	4,292	4,396	4,484	4,573
16	Business support	7,459	8,117	8,436	8,604	8,831	8,952	9,131	9,371	9,500	9,690	9,945
17	**Non-network opex**	11,637	12,051	12,394	12,809	12,924	13,071	13,254	13,663	13,896	14,173	14,518
18	**Operational expenditure**	18,972	20,324	20,864	21,580	21,790	22,119	21,992	22,675	22,745	23,187	23,716

19		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
20	for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25
21		**$000 (in constant prices)**										
22	Service interruptions and emergencies	2,558	2,785	2,694	2,603	2,513	2,422	2,331	2,240	2,149	2,058	1,967
23	Vegetation management	1,331	1,290	1,290	1,290	1,290	1,290	1,000	1,000	700	700	700
24	Routine and corrective maintenance and inspection	2,268	1,970	2,028	2,131	2,137	2,181	2,153	2,238	2,284	2,322	2,366
25	Asset replacement and renewal	1,178	2,061	2,121	2,229	2,236	2,282	2,252	2,341	2,390	2,429	2,475
26	**Network Opex**	7,335	8,107	8,134	8,254	8,175	8,175	7,737	7,818	7,523	7,509	7,509
27	System operations and network support	4,179	3,856	3,805	3,962	3,782	3,731	3,661	3,737	3,752	3,752	3,752
28	Business support	7,459	7,958	8,108	8,108	8,158	8,108	8,108	8,158	8,108	8,108	8,158
29	**Non-network opex**	11,637	11,814	11,913	12,070	11,940	11,839	11,769	11,895	11,860	11,860	11,910
30	**Operational expenditure**	18,972	19,921	20,046	20,323	20,115	20,014	19,505	19,713	19,383	19,368	19,418
31	**Subcomponents of operational expenditure (where known)**											
32	Energy efficiency and demand side management, reduction of											
33	energy losses	735	802	792	792	792	792	772	772	772	772	772
34	Direct billing*	-	-	-	-	-	-	-	-	-	-	0
35	Research and Development	10	10	10	10	10	10	10	10	10	10	10
36	Insurance	463	463	463	463	463	463	463	463	463	463	463
37	** Direct billing expenditure by suppliers that direct bill the majority of their consumers*											
38												

39		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
40	for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25
41	**Difference between nominal and real forecasts**	**$000**										
42	Service interruptions and emergencies	-	57	112	163	212	259	302	342	379	412	443
43	Vegetation management	-	26	53	81	109	138	129	153	123	140	157
44	Routine and corrective maintenance and inspection	-	40	84	134	181	233	279	342	403	465	532
45	Asset replacement and renewal	-	42	88	140	189	244	292	357	421	487	557
46	**Network Opex**	-	166	337	518	691	873	1,002	1,193	1,326	1,505	1,689
47	System operations and network support	-	77	154	242	312	388	462	556	644	732	822
48	Business support	-	159	328	496	672	844	1,023	1,213	1,392	1,582	1,787
49	**Non-network opex**	-	236	481	739	984	1,232	1,485	1,769	2,036	2,314	2,608
50	**Operational expenditure**	-	402	818	1,257	1,675	2,105	2,487	2,962	3,362	3,818	4,297

SCHEDULE 12A: REPORT ON ASSET CONDITION

Company Name	**WEL Networks Limited**
AMP Planning Period	**1 April 2015 – 31 March 2025**

SCHEDULE 12a: REPORT ON ASSET CONDITION

This schedule requires a breakdown of asset condition by asset class as at the start of the forecast year. The data accuracy assessment relates to the percentage values disclosed in the asset condition columns. Also required is a forecast of the percentage of units to be replaced in the next 5 years. All information should be consistent with the information provided in the AMP and the expenditure on assets forecast in Schedule 11a. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

Asset condition at start of planning period (percentage of units by grade)

	Voltage	Asset category	Asset class	Units	Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Data accuracy (1–4)	% of asset forecast to be replaced in next 5 years
10	All	Overhead Line	Concrete poles / steel structure	No.	1.13%	8.01%	26.27%	54.59%	10.00%	2	2.43%
11	All	Overhead Line	Wood poles	No.	7.58%	37.99%	18.62%	25.82%	10.00%	2	35.00%
12	All	Overhead Line	Other pole types	No.	-	-	-	-	-	N/A	-
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	-	54.87%	45.13%	-	1	-
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	-	-	N/A	-
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-	0.81%	1.21%	97.98%	-	1	-
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	-	-	N/A	-
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	-	-	N/A	-
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	0.81%	1.21%	97.98%	-	1	-
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	-	-	N/A	-
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	-	-	N/A	-
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	-	-	N/A	-
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	-	-	N/A	-
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	-	-	N/A	-
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	2.32%	30.12%	50.98%	11.59%	5.00%	3	-
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	-	-	N/A	-
26	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	49.88%	45.13%	5.00%	3	-
27	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	49.88%	45.13%	5.00%	3	-
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	-	-	N/A	-
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	-	100.00%	-	-	3	-
30	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	100.00%	-	3	-
31	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	-	-	N/A	-
32	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	-	-	-	N/A	-
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	-	-	-	-	-	N/A	-
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	-	-	N/A	-

Asset condition at start of planning period (percentage of units by grade)

	Voltage	Asset category	Asset class	Units	Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Data accuracy (1–4)	% of asset forecast to be replaced in next 5 years
45	HV	Zone Substation Transformer	Zone Substation Transformers	No.	1.21%	-	76.92%	16.87%	5.00%	3	4.08%
46	HV	Distribution Line	Distribution OH Open Wire Conductor	km	19.71%	4.99%	16.59%	58.71%	-	2	6.14%
47	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	-	-	N/A	-
48	HV	Distribution Line	SWER conductor	km	-	-	-	-	-	N/A	-
49	HV	Distribution Cable	Distribution UG XLPE or PVC	km	-	10.48%	8.94%	80.59%	-	1	0.25%
50	HV	Distribution Cable	Distribution UG PILC	km	-	10.48%	8.94%	80.59%	-	1	1.04%
51	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	-	-	N/A	-
52	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	-	-	84.78%	15.22%	-	2	35.44%
53	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	0.66%	-	49.05%	45.29%	5.00%	3	7.44%
54	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1.10%	0.30%	23.94%	59.66%	15.00%	4	2.36%
55	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	-	-	N/A	-
56	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	2.11%	10.07%	57.56%	20.26%	10.00%	3	6.97%
57	HV	Distribution Transformer	Pole Mounted Transformer	No.	-	0.85%	17.48%	56.67%	25.00%	2	0.64%
58	HV	Distribution Transformer	Ground Mounted Transformer	No.	1.08%	5.36%	36.87%	36.70%	20.00%	3	0.63%
59	HV	Distribution Transformer	Voltage regulators	No.	-	15.83%	19.35%	59.81%	5.00%	3	-
60	HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	-	-	-	-	N/A	-
61	LV	LV Line	LV OH Conductor	km	-	19.72%	5.00%	75.28%	-	1	0.06%
62	LV	LV Cable	LV UG Cable	km	-	0.24%	29.67%	70.09%	-	1	0.20%
63	LV	LV Streetlighting	LV OH/UG Streetlight circuit	km	-	9.58%	17.85%	72.58%	-	1	0.08%
64	LV	Connections	OH/UG consumer service connections	No.	-	-	-	-	-	N/A	-
65	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1.35%	17.78%	3.04%	67.84%	10.00%	3	31.31%
66	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	-	5.87%	-	84.13%	10.00%	3	5.00%
67	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	100.00%	-	3	-
68	All	Load Control	Centralised plant	Lot	3.25%	-	63.09%	23.66%	10.00%	3	12.50%
69	All	Load Control	Relays	No.	-	-	-	-	-	N/A	-
70	All	Civils	Cable Tunnels	km	-	-	-	-	-	N/A	-

SCHEDULE 12B: REPORT ON FORECAST CAPACITY

Company Name	**WEL Networks Limited**
AMP Planning Period	**1 April 2015 – 31 March 2025**

SCHEDULE 12b: REPORT ON FORECAST CAPACITY

This schedule requires a breakdown of current and forecast capacity and utilisation for each zone substation and current distribution transformer capacity. The data provided should be consistent with the information provided in the AMP. Information provided in this table should relate to the operation of the network in its normal steady state configuration.

sch ref

12b(i): System Growth - Zone Substations

Existing Zone Substations	Current Peak Load (MVA)	Installed Firm Capacity (MVA)	Security of Supply Classification (type)	Transfer Capacity (MVA)	Utilisation of Installed Firm Capacity %	Installed Firm Capacity +5 years (MVA)	Utilisation of Installed Firm Capacity + 5yrs %	Installed Firm Capacity Constraint +5 years (cause)	Explanation
Avalon Dr	20	23	N-1	11	87%	23	90%	No constraint within +5 years	-
Borman	12	23	N-1	12	52%	23	79%	Subtransmission circuit	Limited by the incoming 33kV OH conductor to 20.6MVA
Bryce St	15	23	N-1	15	65%	23	67%	No constraint within +5 years	-
Chartwell	18	23	N-1	15	78%	23	78%	No constraint within +5 years	-
Claudelands	20	23	N-1	20	87%	23	89%	No constraint within +5 years	-
Cobham	12	23	N-1	12	52%	23	52%	No constraint within +5 years	-
Finlayson Rd	3	7.5	N	3	40%	7.5	47%	No constraint within +5 years	-
Glasgow St	7	10	N	7	70%	10	79%	No constraint within +5 years	-
Gordonton	7	10	N	7	70%	10	74%	No constraint within +5 years	2x5MVA transformer. Due to bus arrangement, practically regarded as an N-security site to 10MVA capacity
Hampton Downs	1	10	N	1	10%	10	8%	No constraint within +5 years	-
Horotiu	9	18	N-1	9	50%	18	58%	No constraint within +5 years	-
Kent St	16	23	N-1	16	70%	23	70%	No constraint within +5 years	-
Kimihia	4	10	N	2	40%	10	38%	No constraint within +5 years	-
Latham Court	18	23	N-1	14	78%	23	85%	No constraint within +5 years	-
Hoeka Rd (planned)	0	0	N	-	-	23	40%	No constraint within +5 years	Subject to further review given the Ruakura development
Ngaruawahia	5	7.5	N-1	5	67%	10	52%	No constraint within +5 years	One TX suffered internal fault and decided to replace the pair. By 31st Mar, 1x7.5MVA, 1x10MVA, in +5 years, 2x10MVA
Peacockes Rd	14	10	N-1	12	140%	23	68%	No constraint within +5 years	Current unit 4-hours emergency rating 15MVA.
Pukete - LV winding 1 - Anchor (major customer)	19	30	N-1	-	63%	30	63%	No constraint within +5 years	-
Pukete - LV winding 2 - WEL's 11kV	8	15	N-1	8	53%	15	53%	No constraint within +5 years	3-winding tx - share with Contact Energy
Raglan	5	23	N	2.5	22%	23	24%	Subtransmission circuit	limited by the incoming 33kV OH conductor. Transfer capacity revised to due voltage regulation issue.
Ruakura (Replacing TP HAM 11 kV GXP.)	36	40	N-1	17	90%	46	62%	No constraint within +5 years	Phase shift issue at 11kV, also limited 11kV connectivities to adjacent subs
Sandwich Rd	20	23	N-1	17	87%	23	88%	No constraint within +5 years	-
Tasman	18	23	N-1	18	78%	46	62%	No constraint within +5 years	3rd TX at TAS in +5yrs
Te Kauwhata	4	10	N-1	4	40%	10	44%	No constraint within +5 years	TX recently replaced due to age
Te Uku	1	10	N	1	10%	10	11%	No constraint within +5 years	-
Wallace Rd	14	23	N-1	14	61%	23	59%	No constraint within +5 years	
Weavers	8	7.5	N-1	8	107%	15	57%	No constraint within +5 years	4-hours emergency rating 11.25MVA.
Whatawhata	3	23	N	3	13%	23	14%	No constraint within +5 years	The capacity utilisation in +5year reduced due to the on-going rationalisation of WHA-WAL PDD

[1] *Extend forecast capacity table as necessary to disclose all capacity by each zone substation*

12b(ii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	831
Distribution transformer capacity (Non-EDB owned)	26
Total distribution transformer capacity	857
Zone substation transformer capacity	766

Company Name	**WEL Networks Limited**
AMP Planning Period	**1 April 2015 – 31 March 2025**

SCHEDULE 12C: REPORT ON FORECAST NETWORK DEMAND

This schedule requires a forecast of new connections (by consumer type), peak demand and energy volumes for the disclosure year and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP as well as the assumptions used in developing the expenditure forecasts in Schedule 11a and Schedule 11b and the capacity and utilisation forecasts in Schedule 12b.

sch ref

12c(i): Consumer Connections

Number of ICPs connected in year by consumer type

		Number of connections					
		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
	for year ended	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**
	*Consumer types defined by EDB**						
	Residential Customers	1,023	1,091	1,071	1,054	1,059	990
	Business Customers	166	164	166	169	171	173
	Large Customers - Low Voltage 400V	11	34	29	28	23	17
	Large Customers - Medium Voltage 11kV	4	(5)	(5)	(5)	(5)	(5)
	Large Customers - High Voltage 33kV	-	-	-	-	-	-
	Asset Specific Customers	-	-	-	-	-	-
	Unmetered Customers	10	(13)	(9)	(6)	(4)	-
	External Network Customers	100	(38)	-	-	-	-
	Connections total	1,204	1,284	1,261	1,246	1,248	1,175
	Distributed generation						
	Number of connections	216	324	454	567	680	816
	Installed connection capacity of distributed generation (MVA)	118	118	119	119	120	120

**include additional rows if needed*

12c(ii) System Demand

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
	Maximum coincident system demand (MW) for year ended	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**
	GXP demand	244	248	251	253	256	258
plus	Distributed generation output at HV and above	3	3	3	3	3	3
	Maximum coincident system demand	246	250	254	256	258	260
less	Net transfers to (from) other EDBs at HV and above	-	-	-	-	-	-
	Demand on system for supply to consumers' connection points	246	250	254	256	258	260
	Electricity volumes carried (GWh)						
	Electricity supplied from GXPs	940	942	945	948	951	952
less	Electricity exports to GXPs	116	117	115	114	113	113
plus	Electricity supplied from distributed generation	426	426	426	426	426	426
less	Net electricity supplied to (from) other EDBs	(14)	(14)	(14)	(14)	(14)	(14)
	Electricity entering system for supply to ICPs	1,264	1,265	1,271	1,274	1,278	1,279
less	Total energy delivered to ICPs	1,203	1,205	1,210	1,213	1,217	1,218
	Losses	61	60	61	61	61	61
	Load factor	59%	58%	57%	57%	57%	56%
	Loss ratio	4.8%	4.7%	4.8%	4.8%	4.8%	4.8%

SCHEDULE 12D: REPORT FORECAST INTERRUPTIONS AND DURATION

Company Name	**WEL Networks Limited**
AMP Planning Period	**1 April 2015 – 31 March 2025**
Network / Sub-network Name	

SCHEDULE 12d: REPORT FORECAST INTERRUPTIONS AND DURATION

This schedule requires a forecast of SAIFI and SAIDI for disclosure and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP as well as the assumed impact of planned and unplanned SAIFI and SAIDI on the expenditures forecast provided in Schedule 11a and Schedule 11b.

sch ref		*Current Year CY*	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
9	for year ended	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**
10	**SAIDI**						
11	Class B (planned interruptions on the network)	25.2	30.5	32.9	32.9	32.9	32.9
12	Class C (unplanned interruptions on the network)	78.0	65.3	62.1	61.7	61.4	61.0
13	**SAIFI**						
14	Class B (planned interruptions on the network)	0.2	0.3	0.3	0.3	0.3	0.3
15	Class C (unplanned interruptions on the network)	1.3	1.3	1.3	1.3	1.2	1.2

SCHEDULE 14: MANDATORY EXPLANATORY NOTES

1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f),and 2.5.2(1)(e).

2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 12 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.

3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

Return on Investment (Schedule 2)

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 1: Explanatory comment on return on investment

Prior year return on investment disclosures (prior year ROIs) reported in the 2015 year end disclosure have been recalculated using the Commerce Commission's Worksheet "EDB worksheet for calculating prior year ROIs 30 April 2015" and are disclosed in table 2(i) of Schedule 2. The variance relates to the change in treatment of Asset Revaluations (prior year revaluation was $6,999k) on the Regulatory Tax Allowance. Income included in regulatory profit / (loss) before tax but not taxable must now exclude revaluations.

Regulatory Profit (Schedule 3)

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-

   5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3

   5.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 2: Explanatory comment on regulatory profit

The material item included in 'other regulatory line income' is Te Uku windfarm lease revenue. This revenue is for the line and other assets that supply the windfarm.

No items have been reclassified.

Merger and acquisition expenses (3(iv) of Schedule 3)

6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-

    6.1 information on reclassified items in accordance with subclause 2.7.1(2)

    6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

Box 3: Explanatory comment on merger and acquisition expenditure
No merger and acquisition expenditure.

Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)
No items have been reclassified.

The value of the Asset Base in Schedule 4 for the 2014 was $475.614m and 2015 is now $486.846m, a positive movement of $11.232m.

Assets are capitalised once the project is completed including receiving as-built information. The value of assets commissioned but not included in the RAB is $27.1M.

The WIP balance associated with these assets will be rolled out of WIP once these assets are capitalised onto the RAB register.

Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)

8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-

    8.1 Income not included in regulatory profit / (loss) before tax but taxable;

    8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;

    8.3 Income included in regulatory profit / (loss) before tax but not taxable;

    8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

Box 5: Regulatory tax allowance: permanent differences

8.1 *Income not included in regulatory profit/(loss) before tax but taxable*: is the current year portion of the Third Party Contribution costs which are being amortised over 10 years.

8.2 *expenditure or loss in regulatory profit / (loss) before tax but not deductible:*

- non deductible portion of entertainment $24K
- legal costs $0K
- depreciation on buildings $302K

8.3 *income included in regulatory profit / (loss) before tax but not taxable:*

- historical undergrounding costs funded via government grant being amortised over 45 years $31K

8.4 *expenditure or loss deductible but not in regulatory profit / (loss) before tax :* no items

Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

Box 6: Tax effect of other temporary differences (current disclosure year)

There are no temporary differences to report.

Related party transactions: disclosure of related party transactions (Schedule 5b)

10. In the box below, provide descriptions of related party transactions beyond those disclosed on Schedule 5b including identification and descriptions as to the nature of directly attributable costs disclosed under subclause 2.3.6(1)(b).

Box 7: Related party transactions

Cost allocation (Schedule 5d)

11. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 8: Cost allocation
No items were reclassified.

Business Support has costs classified as indirectly attributable, as under the Input Memorandum (IM) determination and allocated using ACAM.

Asset allocation (Schedule 5e)

12. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 9: Commentary on asset allocation
Indirectly attributable values relate to poles that have fibre placed on them and the fibre is owned by the local fibre company. The asset values are not detailed enough for an exact calculation so the figures provided are estimated. Where capital contributions have been received for replacement of poles relating to fibre then those poles are not included in the indirectly attributable value as the contribution is netted of the capital cost.

33kV assets attributed to fibre have been reclassified to Distribution and LV Lines.

Capital Expenditure for the Disclosure Year (Schedule 6a)

13. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-

    13.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;

    13.2 information on reclassified items in accordance with subclause 2.7.1(2),

Box 10: Explanation of capital expenditure for the disclosure year
WEL classifies a project with total cost over $0.5M as a major capital project.

No items were reclassified.

Operational Expenditure for the Disclosure Year (Schedule 6b)

14. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-

    14.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;

    14.2 Information on reclassified items in accordance with subclause 2.7.1(2);

14.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

Box 11: Explanation of operational expenditure for the disclosure year

No items were reclassified.

Asset replacement and renewal operating expenditure is mainly incurred in relation to unplanned defects correction. The expenditure includes the following main assets categories:

- Switchgear including RMU & overhead line switches / sectionisers / voltage regulators
- Conductors, poles and crossarms including insulator, live line clamps, broken cut outs, possum guards and stay wire repairs
- Distribution transformers
- Pillars
- Feeders including stolen earth repairs
- Circuit breakers
- Zone substations including buildings, zone sub transformers, ripple plants and battery charges and banks
- SCADA and other communication devices

Variance between forecast and actual expenditure (Schedule 7)

15. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 12: Explanatory comment on variance in actual to forecast expenditure

7(ii) Expenditure on assets

Consumer connection was higher than forecast due to higher connections and subdivision development works.

System growth was slightly lower than forecast due to timing delays causing several projects to carry forward from the 14/15 year into the 15/16 year.

Asset replacement and renewal is generally aligned with the forecast.

Asset relocations were lower than forecast due to less relocation and undergrounding requests than provided for in the budget.

Reliability, safety and environment is higher than the forecast mainly due to:

- Quality of supply: Costs were higher than anticipated mainly due to more LVC remedial works.
- Legislative and regulatory: Costs were slightly higher that forecast due to timing delays in the 13/14 work carried forward into the 14/15 year.
- Other reliability, safety and environment: Design of Caro Street Switching Station was deferred again due to unavailability of a site.

7(iii) Operational Expenditure

- Service interruptions and emergencies: underspend mainly due to better management of first fault response.
- Vegetation management is aligned with the forecast.
- Routine and corrective maintenance and inspection: underspend mainly due to lower costs than expected in the stolen earths and other corrective works categories.
- Asset replacement and renewal: underspend mainly due to the deferral of ring main unit maintenance, and less costs in pillar refurbishments than expected.
- System operations and network support: underspend can be explained by the following costs that were lower than forecast; salaries, IT contract services and network systems maintenance.
- Business Support: the main driver for the favourable underspend can be explained by salaries being less than forecast due mainly to a high level of vacancies.

Information relating to revenues and quantities for the disclosure year

16. In the box below provide-

    16.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and

    16.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

Box 13: Explanatory comment relating to revenue for the disclosure year

The variance between target revenue and total billed revenue for the year is -1.06%.

16.1 Total billed revenue is lower than target revenue due to lower than expected kilowatt hour consumption. The main drivers for this are warmer than average temperatures and the effects of continued energy efficiency improvements by consumers.

16.2 The difference between total billed revenue and target revenue is -1.06%. The primary contributing factor to this result are the lower kilowatt hour volumes experienced.

Network Reliability for the Disclosure Year (Schedule 10)

17. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

Box 14: Commentary on network reliability for the disclosure year

The normalised result for SAIDI was 103.12
The normalised result for SAIFI was 1.53.

For SAIFI performance, 10% was derived from planned outages, 90% was caused by unplanned outages.

For SAIDI, 23% was derived from planned outages, 77% was caused by unplanned outages.

The unplanned SAIDI outcome was impacted by four key factors during the year:

1. Adverse weather (30%):
    a. A major storm between the 10th and 12th June 2014 resulted in 16.33 SAIDI minutes. This storm met the regulatory criteria for a major event as the time lost exceeded the daily limits of 13.25 minutes by 1.93 minutes on 11th June 2014.
    b. 7.47 SAIDI minutes were resulted from combination of strong winds and vegetative debris thrown onto lines.
2. Defective equipment (28%) mainly from distribution lines.
3. Third party interference (25%) mainly from vehicle accidents and diggers hit cables: 15.26 SAIDI minutes were caused by vehicle accidents.

Insurance cover

18. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-

    18.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;

    18.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 15: Explanation of insurance cover

18.1: WEL takes prudent insurance cover for the critical 'point' assets within the network (being the substations) including material damage, but notes insurance for the actual network is either unavailable or prohibitively expensive. WEL also takes prudent insurance cover for the non-network assets and appropriate contracting and statutory liability insurances.

18.2: WEL does not have any formal self insurance policies. WEL has risk management practices and procedures. WEL does not have its own 'captive' insurance company or cash reserves invested.

Amendments to previously disclosed information

19. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:

    19.1 a description of each error; and

    19.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 16: Disclosure of amendment to previously disclosed information

The value of the opening weighted average remaining useful life of relevant assets (years) in Schedule 5(a) is 5 years less than the 2010 value (as per the Sch 16 definition) but is not 1 less than the 2014 value. The 2014 remaining life value was incorrect and the effect of the incorrect 2014 value was not material and hence it has not been corrected in prior years.

SCHEDULE 14A: MANDATORY EXPLANATORY NOTES ON FORECAST INFORMATION

1. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.

2. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)

3. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11a.

Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts

WEL has adopted the indexation methodology.
The values used for each class of expenditure are shown below.

Network CAPEX cost index = 2.25% p.a.
Non-Network capital cost index = 2.25% p.a.

Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)

4. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11b.

Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts

Network maintenance (operational) cost index = 2.05% p.a.
Non-Network maintenance cost index = 2.02% p.a.

SCHEDULE 15: VOLUNTARY EXPLANATORY NOTES

1. This schedule enables EDBs to provide, should they wish to-

    1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;

    1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.

2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

3. Provide additional explanatory comment in the box below.

Box 1: Voluntary explanatory comment on disclosed information

S3(ii) Other specified pass-through costs: This includes electricity line services payable to other regulated suppliers for embedded networks. This is similar to indirect transmission charges which are allowed to be treated as recoverable costs under the DPP.