HORIZON ENERGY

Information Disclosure Reports prepared according to Part 4 of the Commerce Act 1986

For the Year Ended 31 March 2014

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INTRODUCTION

These Information Disclosure Reports are dislosed by Horizon Energy Distribution Limited pursuant to Part 4 of the Commerce Act 1986 in accordance with:

- The Electricity Distribution Information Disclosure Determination 2012

REPORTS

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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.

sch ref

7 **1(i): Expenditure metrics**

8	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)
9 **Operational expenditure**	15,076	313	92,372	3,246	34,793
10 Network	5,214	108	31,950	1,123	12,034
11 Non-network	9,861	204	60,423	2,124	22,759
12					
13 **Expenditure on assets**	17,496	363	107,201	3,768	40,379
14 Network	16,096	334	98,626	3,466	37,149
15 Non-network	1,400	29	8,576	301	3,230

16

17 **1(ii): Revenue metrics**

18	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
19 **Total consumer line charge revenue**	58,457	1,212
20 Standard consumer line charge revenue	103,826	1,018
21 Non-standard consumer line charge revenue	17,824	401,812

22

23 **1(iii): Service intensity measures**

24

25 Demand density	35	*Maximum coincident system demand per km circuit length (for supply) (kW/km)*
26 Volume density	215	*Total energy delivered to ICPs per km circuit length (for supply) (MWh/km)*
27 Connection point density	10	*Average number of ICPs per km circuit length (for supply) (ICPs/km)*
28 Energy intensity	20,735	*Total energy delivered to ICPs per Average number of ICPs (kWh/ICP)*

29

30

31 **1(iv): Composition of regulatory income**

32	($000)	% of revenue
33 Operational expenditure	7,731	25.50%
34 Pass-through and recoverable costs	8,882	29.29%
35 Total depreciation	4,656	15.36%
36 Total revaluation	1,604	5.29%
37 Regulatory tax allowance	3,120	10.29%
38 Regulatory profit/loss	7,539	24.86%
39 **Total regulatory income**	30,323	

40

41 **1(v): Reliability**

42	Interruptions per 100 circuit km
43 Interruption rate	7.05

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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	CY-1	Current Year CY
	31 Mar 12	31 Mar 13	31 Mar 14
Post tax WACC	%	%	%
ROI—comparable to a post tax WACC	6.51%	5.67%	5.89%
Mid-point estimate of post tax WACC	6.40%	5.85%	5.43%
25th percentile estimate	5.68%	5.13%	4.71%
75th percentile estimate	7.11%	6.56%	6.14%
Vanilla WACC			
ROI—comparable to a vanilla WACC	7.30%	6.40%	6.57%
Mid-point estimate of vanilla WACC	7.22%	6.62%	6.11%
25th percentile estimate	6.51%	5.91%	5.39%
75th percentile estimate	7.94%	7.34%	6.83%

2(ii): Information Supporting the ROI

		($000)	
	Total opening RAB value	104,498	
plus	Opening deferred tax	(2,873)	
	Opening RIV		101,624
	Operating surplus / (deficit)	13,710	
less	Regulatory tax allowance	3,120	
less	Assets commissioned	9,279	
plus	Asset disposals	100	
	Notional net cash flows		1,412
	Total closing RAB value	110,624	
less	Adjustment resulting from asset allocation	0	
less	Lost and found assets adjustment	-	
plus	Closing deferred tax	(3,777)	
	Closing RIV		106,848
	ROI—comparable to a vanilla WACC		6.57%
	Leverage (%)		44%
	Cost of debt assumption (%)		5.56%
	Corporate tax rate (%)		28.00%
	ROI—comparable to a post tax WACC		5.89%

2(iii): Information Supporting the Monthly ROI

Cash flows ($000)

	Total regulatory income	Expenses	Tax payments	Assets commissioned	Asset disposals	Notional net cash flows
April	-	-	-	-	-	-
May	-	-	-	-	-	-
June	-	-	-	-	-	-
July	-	-	-	-	-	-
August	-	-	-	-	-	-
September	-	-	-	-	-	-
October	-	-	-	-	-	-
November	-	-	-	-	-	-
December	-	-	-	-	-	-
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
Total	-	-	-	-	-	-

	Opening / closing RAB	Adjustment resulting from asset allocation	Lost and found assets adjustment	Opening / closing deferred tax	Revenue related working capital	Total
Monthly ROI - opening RIV	104,498			(2,873)	-	101,624
Monthly ROI -closing RIV	110,624	0	-	(3,777)	-	106,848
Monthly ROI -closing RIV less term credit spread differential allowance						106,848
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	7.09%
Year-end ROI—comparable to a post-tax WACC	6.41%

** 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	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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 3(i), 3(iv) and 3(v) and must provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).
Non-exempt EDBs must also complete sections 3(ii) and 3(iii).
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

3(i): Regulatory Profit

			($000)
8		**Income**	
9		Line charge revenue	29,977
10	*plus*	Gains / (losses) on asset disposals	(44)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)	390
12			
13		**Total regulatory income**	30,323
14		**Expenses**	
15	*less*	Operational expenditure	7,731
17	*less*	Pass-through and recoverable costs	8,882
18			
19		**Operating surplus / (deficit)**	13,710
20			
21	*less*	Total depreciation	4,656
22			
23	*plus*	Total revaluation	1,604
24			
25		**Regulatory profit / (loss) before tax & term credit spread differential allowance**	10,658
26			
27	*less*	Term credit spread differential allowance	-
28			
29		**Regulatory profit / (loss) before tax**	10,658
30			
31	*less*	Regulatory tax allowance	3,120
32			
33		**Regulatory profit / (loss)**	7,539
34			

3(ii): Pass-Through and Recoverable Costs

				($000)
36		**Pass-through costs**		
37		Rates	135	
38		Commerce Act levies	48	
		Electricity Authority levies	60	
40		Other specified pass-through costs	9	
41		**Recoverable costs**		
42		Net recoverable costs allowed under incremental rolling incentive scheme	-	
43		Non-exempt EDB electricity lines service charge payable to Transpower	5,561	
44		Transpower new investment contract charges	-	
45		System operator services	-	
46		Avoided transmission charge	3,069	
47		Input Methodology claw-back	-	
48		Recoverable customised price-quality path costs	-	
49		**Pass-through and recoverable costs**		8,882

3(iii): Incremental Rolling Incentive Scheme

			($000)	
58			**CY-1**	**CY**
59			**31 March 2013**	**31 March 2014**
60		Allowed controllable opex	-	-
61		Actual controllable opex	-	-
62				
63		Incremental change in year		-
64				
65			**Previous years' incremental change**	**Previous years' incremental change adjusted for inflation**
66	CY-5	31 Mar 09	-	-
67	CY-4	31 Mar 10	-	-
68	CY-3	31 Mar 11	-	-
69	CY-2	31 Mar 12	-	-
70	CY-1	31 Mar 13	-	-
71		**Net incremental rolling incentive scheme**		-
72				
73		**Net recoverable costs allowed under incremental rolling incentive scheme**		-

3(iv): Merger and Acquisition Expenditure

75	Merger and acquisition expenses	-
76		
77	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

79	Self-insurance allowance	-

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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 10 ($000)	RAB 31 Mar 11 ($000)	RAB 31 Mar 12 ($000)	RAB 31 Mar 13 ($000)	RAB 31 Mar 14 ($000)
	Total opening RAB value	99,283	99,190	101,071	101,722	104,498
less	**Total depreciation**	4,260	4,361	4,483	4,378	4,656
plus	**Total revaluations**	2,030	2,384	1,578	870	1,604
plus	**Assets commissioned**	2,199	4,229	3,976	6,688	9,279
less	**Asset disposals**	62	371	420	404	100
plus	**Lost and found assets adjustment**	-	-	-	-	-
plus	**Adjustment resulting from asset allocation**	-	-	-	0	0
	Total closing RAB value	99,190	101,071	101,722	104,498	110,624

4(ii): Unallocated Regulatory Asset Base

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Total opening RAB value		104,498		104,498
less					
	Total depreciation		4,656		4,656
plus					
	Total revaluations		1,604		1,604
plus					
	Assets commissioned (other than below)	565		565	
	Assets acquired from a regulated supplier	-		-	
	Assets acquired from a related party	8,714		8,714	
	Assets commissioned		9,279		9,279
less					
	Asset disposals (other than below)	100		100	
	Asset disposals to a regulated supplier	-		-	
	Asset disposals to a related party	-		-	
	Asset disposals		100		100
plus	**Lost and found assets adjustment**		-		-
plus	**Adjustment resulting from asset allocation**				0
	Total closing RAB value		110,624		110,624

** 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 non-regulated 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	1,192
CPI_4^{-4}	1,174
Revaluation rate (%)	1.53%

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Total opening RAB value	104,498		104,498	
less	Opening RAB value of fully depreciated, disposed and lost assets	141		141	
	Total opening RAB value subject to revaluation	104,356		104,356	
	Total revaluations		1,604		1,604

4(iv): Roll Forward of Works Under Construction

		Unallocated works under construction		Allocated works under construction	
	Works under construction—preceding disclosure year		2,194		2,194
plus	Capital expenditure	9,083		9,083	
less	Assets commissioned	9,279		9,279	
plus	Adjustment resulting from asset allocation			-	
	Works under construction - current disclosure year		1,998		1,998
	Highest rate of capitalised finance applied				1.3%

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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(v): Regulatory Depreciation

	Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
Depreciation - standard	4,213		4,213	
Depreciation - no standard life assets	443		443	
Depreciation - modified life assets	-		-	
Depreciation - alternative depreciation in accordance with CPP	-		-	
Total depreciation		4,656		4,656

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	5,491	694	7,137	34,548	22,190	16,953	8,571	5,473	3,441	104,498
less	Total depreciation	219	24	267	1,163	1,017	651	483	362	472	4,656
plus	Total revaluations	84	10	104	420	383	312	142	95	55	1,604
plus	Assets commissioned	30	-	508	198	2,761	1,430	1,960	1,544	579	9,010
less	Asset disposals	-	-	5	-	-	82	-	13	-	100
plus	Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
plus	Adjustment resulting from asset allocation	-	-	-	-	-	-	-	-	-	-
plus	Asset category transfers	9	(11)	(370)	(7,166)	2,801	3,456	700	712	139	268
	Total closing RAB value	5,395	669	7,108	26,837	27,118	21,417	10,891	7,449	3,741	110,624
	Asset Life										
	Weighted average remaining asset life	28.5	36.6	30.4	28.0	29.7	37.3	26.3	23.4	9.1	(years)
	Weighted average expected total asset life	57.1	50.1	49.8	58.7	47.9	53.8	36.9	36.6	10.0	(years)

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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

5a(i): Regulatory Tax Allowance

sch ref					($000)
8		**Regulatory profit / (loss) before tax**			10,658
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	-	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	77	*	
12		Amortisation of initial differences in asset values	4,219		
13		Amortisation of revaluations	278		
14					4,574
15					
16	*less*	Income included in regulatory profit / (loss) before tax but not taxable	1,604	*	
17		Discretionary discounts and consumer rebates	-		
18		Expenditure or loss deductible but not in regulatory profit / (loss) before tax**	-	*	
19		Notional deductible interest	2,486		
20					4,090
21					
22		**Regulatory taxable income**			11,141
23					
24	*less*	Utilised tax losses	-		
25		Regulatory net taxable income			11,141
26					
27		Corporate tax rate (%)	28%		
28		**Regulatory tax allowance**			3,120
29					
30	*	Workings to be provided in Schedule 14			
31	**	Excluding discretionary discounts and consumer rebates			

5a(ii): Disclosure of Permanent Differences

In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

5a(iii): Amortisation of Initial Difference in Asset Values

sch ref		($000)
36	Opening unamortised initial differences in asset values	61,090
37	Amortisation of initial differences in asset values	4,219
38	Adjustment for unamortised initial differences in assets acquired	-
39	Adjustment for unamortised initial differences in assets disposed	-
40	Closing unamortised initial differences in asset values	56,872
41		
42	Opening weighted average remaining asset life (years)	14

5a(iv): Amortisation of Revaluations

sch ref		($000)
44		
45	Opening Sum of RAB values without revaluations	98,493
46		
47	Adjusted depreciation	4,379
48	Total depreciation	4,656
49	Amortisation of revaluations	278

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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

5a(v): Reconciliation of Tax Losses

sch ref				($000)
57				
58				
59		**Opening tax losses**	-	
60	*plus*	Current period tax losses	-	
61	*less*	Utilised tax losses	-	
62		**Closing tax losses**		-

5a(vi): Calculation of Deferred Tax Balance

sch ref				($000)
63				
64				
65		**Opening deferred tax**	(2,873)	
66				
67	*plus*	Tax effect of adjusted depreciation	1,226	
68				
69	*less*	Tax effect of total tax depreciation	1,038	
70				
71	*plus*	Tax effect of other temporary differences*	90	
72				
73	*less*	Tax effect of amortisation of initial differences in asset values	1,181	
74				
75	*plus*	Deferred tax balance relating to assets acquired in the disclosure year	-	
76				
77	*less*	Deferred tax balance relating to assets disposed in the disclosure year	-	
78				
79	*plus*	Deferred tax cost allocation adjustment	-	
80				
81		**Closing deferred tax**		(3,777)
82				

5a(vii): Disclosure of Temporary Differences

84 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).

85

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

sch ref				($000)
87				
88		**Opening sum of regulatory tax asset values**	31,887	
89	*less*	Tax depreciation	3,708	
90	*plus*	Regulatory tax asset value of assets commissioned	8,877	
91	*less*	Regulatory tax asset value of asset disposals	11	
92	*plus*	Lost and found assets adjustment	-	
93	*plus*	Other adjustments to the RAB tax value	263	
94		**Closing sum of regulatory tax asset values**		37,308

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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

7 **5b(i): Summary—Related Party Transactions**

		($000)
8	Total regulatory income	-
9	Operational expenditure	2,586
10	Capital expenditure	8,162
11	Market value of asset disposals	-
12	Other related party transactions	(546)

13 **5b(ii): Entities Involved in Related Party Transactions**

	Name of related party	Related party relationship
15	Horizon Services Limited	100% owned
16	Aquaheat New Zealand Limited	100% owned

20 ** include additional rows if needed*

21 **5b(iii): Related Party Transactions**

22	Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value
23	Horizon Services Limited	Capex	Construction of Network Assets	8,162	Directly Attributable Cost
24	Horizon Services Limited	Opex	Maintenance of Network Assets	2,526	Directly Attributable Cost
25	Horizon Services Limited	Opex	Rental Expense	60	Directly Attributable Cost
26	Horizon Services Limited	Opex	Management Fee Income from Subsidiary	(451)	ABAA
27	Aquaheat New Zealand Limited	Opex	Management Fee Income from Subsidiary	(95)	ABAA

** include additional rows if needed*

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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

7

8 **5c(i): Qualifying Debt (may be Commission only)**

9

10	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
11										
12										
13										
14										
15										
16	** include additional rows if needed*						-	-	-	-

17

18 **5c(ii): Attribution of Term Credit Spread Differential**

19

20	**Gross term credit spread differential**		-
21			
22	Total book value of interest bearing debt	-	
23	Leverage	44%	
24	Average opening and closing RAB values	-	
25	**Attribution Rate (%)**		-
26			
27	**Term credit spread differential allowance**		-

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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		672			
Not directly attributable	-	-	-	-	-
Total attributable to regulated service		672			
Vegetation management					
Directly attributable		365			
Not directly attributable	-	-	-	-	-
Total attributable to regulated service		365			
Routine and corrective maintenance and inspection					
Directly attributable		930			
Not directly attributable	-	-	-	-	-
Total attributable to regulated service		930			
Asset replacement and renewal					
Directly attributable		707			
Not directly attributable	-	-	-	-	-
Total attributable to regulated service		707			
System operations and network support					
Directly attributable		2,269			
Not directly attributable	-	-	-	-	-
Total attributable to regulated service		2,269			
Business support					
Directly attributable		-			
Not directly attributable	-	2,788	1,460	4,248	-
Total attributable to regulated service		2,788			
Operating costs directly attributable		4,943			
Operating costs not directly attributable	-	2,788	1,460	4,248	-
Operating expenditure		7,731			

5d(ii): Other Cost Allocations

Pass through and recoverable costs	
Pass through costs	
Directly attributable	252
Not directly attributable	-
Total attributable to regulated service	252
Recoverable costs	
Directly attributable	8,630
Not directly attributable	-
Total attributable to regulated service	8,630

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

($000)

Change in cost allocation 1

			CY-1 31 Mar 13	Current Year (CY) 31 Mar 14
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

			CY-1 31 Mar 13	Current Year (CY) 31 Mar 14
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

			CY-1 31 Mar 13	Current Year (CY) 31 Mar 14
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

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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
10	**Subtransmission lines**	
11	Directly attributable	5,395
12	Not directly attributable	-
13	**Total attributable to regulated service**	5,395
14	**Subtransmission cables**	
15	Directly attributable	669
16	Not directly attributable	-
17	**Total attributable to regulated service**	669
18	**Zone substations**	
19	Directly attributable	7,108
20	Not directly attributable	-
21	**Total attributable to regulated service**	7,108
22	**Distribution and LV lines**	
23	Directly attributable	26,837
24	Not directly attributable	-
25	**Total attributable to regulated service**	26,837
26	**Distribution and LV cables**	
27	Directly attributable	27,118
28	Not directly attributable	-
29	**Total attributable to regulated service**	27,118
30	**Distribution substations and transformers**	
31	Directly attributable	21,417
32	Not directly attributable	-
33	**Total attributable to regulated service**	21,417
34	**Distribution switchgear**	
35	Directly attributable	10,891
36	Not directly attributable	-
37	**Total attributable to regulated service**	10,891
38	**Other network assets**	
39	Directly attributable	7,449
40	Not directly attributable	-
41	**Total attributable to regulated service**	7,449
42	**Non-network assets**	
43	Directly attributable	
44	Not directly attributable	3,741
45	**Total attributable to regulated service**	3,741
46		
47	**Regulated service asset value directly attributable**	106,883
48	**Regulated service asset value not directly attributable**	3,741
49	**Total closing RAB value**	110,624

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

($000)

				CY-1 31 Mar 13	Current Year (CY) 31 Mar 14
60	**Change in asset value allocation 1**				
61	Asset category		Original allocation		
62	Original allocator or line items		New allocation		
63	New allocator or line items		Difference	-	-
65	Rationale for change				

				CY-1 31 Mar 13	Current Year (CY) 31 Mar 14
68	**Change in asset value allocation 2**				
69	Asset category		Original allocation		
70	Original allocator or line items		New allocation		
71	New allocator or line items		Difference	-	-
73	Rationale for change				

				CY-1 31 Mar 13	Current Year (CY) 31 Mar 14
77	**Change in asset value allocation 3**				
78	Asset category		Original allocation		
79	Original allocator or line items		New allocation		
80	New allocator or line items		Difference	-	-
82	Rationale for change				

85 * 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

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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

sch ref			($000)	($000)
8		Consumer connection		172
9		System growth		10
10		Asset replacement and renewal		5,723
11		Asset relocations		54
12		Reliability, safety and environment:		
13		Quality of supply	1,839	
14		Legislative and regulatory	446	
15		Other reliability, safety and environment	11	
16		**Total reliability, safety and environment**		2,295
17		**Expenditure on network assets**		8,254
18		Non-network assets		718
19				
20		**Expenditure on assets**		8,972
21	*plus*	Cost of financing		133
22	*less*	Value of capital contributions		22
23	*plus*	Value of vested assets		-
24				
25		**Capital expenditure**		9,083

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

sch ref			($000)
27		Energy efficiency and demand side management, reduction of energy losses	
28		Overhead to underground conversion	351
29		Research and development	

6a(iii): Consumer Connection

sch ref		*Consumer types defined by EDB**	($000)	($000)
32		130 - Capital - Customer Connection - NC1 assets created	172	
33				
34				
35				
36				
37		** include additional rows if needed*		
38		**Consumer connection expenditure**		172
39				
40	*less*	Capital contributions funding consumer connection expenditure	22	
41		**Consumer connection less capital contributions**		150

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

sch ref			System Growth ($000)	Asset Replacement and Renewal ($000)
45		Subtransmission	-	30
46		Zone substations	6	1,006
47		Distribution and LV lines	-	117
48		Distribution and LV cables	2	1,481
49		Distribution substations and transformers	-	906
50		Distribution switchgear	-	1,314
51		Other network assets	3	869
52		**System growth and asset replacement and renewal expenditure**	10	5,723
53	*less*	Capital contributions funding system growth and asset replacement and renewal	-	-
54		**System growth and asset replacement and renewal less capital contributions**	10	5,723

6a(v): Asset Relocations

sch ref		*Project or programme**	($000)	($000)
58				
59				
60				
61				
62				
63		** include additional rows if needed*		
64		All other asset relocations projects or programmes	54	
65		**Asset relocations expenditure**		54
66	*less*	Capital contributions funding asset relocations		
67		**Asset relocations less capital contributions**		54

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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(vi): Quality of Supply

	*Project or programme**	($000)	($000)
	1282 1000 KVA Generator	455	
	** include additional rows if needed*		
	All other quality of supply projects or programmes	1,384	
	Quality of supply expenditure		1,839
less	Capital contributions funding quality of supply		
	Quality of supply less capital contributions		1,839

6a(vii): Legislative and Regulatory

	*Project or programme**	($000)	($000)
	** include additional rows if needed*		
	All other legislative and regulatory projects or programmes	446	
	Legislative and regulatory expenditure		446
less	Capital contributions funding legislative and regulatory	-	
	Legislative and regulatory less capital contributions		446

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

	*Project or programme**	($000)	($000)
	** include additional rows if needed*		
	All other reliability, safety and environment projects or programmes	11	
	Other reliability, safety and environment expenditure		11
less	Capital contributions funding other reliability, safety and environment		
	Other reliability, safety and environment less capital contributions		11

6a(ix): Non-Network Assets

Routine expenditure

	*Project or programme**	($000)	($000)
	Plant & Equipment	190	
	Furniture & Fittings	7	
	Vehicles	54	
	Intangible	467	
	-		
	** include additional rows if needed*		
	All other routine expenditure projects or programmes		
	Routine expenditure		718

Atypical expenditure

	*Project or programme**	($000)	($000)
	** include additional rows if needed*		
	All other atypical expenditure projects or programmes		
	Atypical expenditure		-
	Non-network assets expenditure		718

Company Name	prizon Energy Distribution Limite
For Year Ended	31 March 2014

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

This schedule requires a breakdown of operating 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 operating 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	672	
9	Vegetation management	365	
10	Routine and corrective maintenance and inspection	930	
11	Asset replacement and renewal	707	
12	**Network opex**		2,674
13	System operations and network support	2,269	
14	Business support	2,788	
15	**Non-network opex**		5,057
16			
17	**Operational expenditure**		7,731
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		
20	Direct billing*		
21	Research and development		
22	Insurance		
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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	30,242	29,977	(1%)
9	**7(ii): Expenditure on Assets**	**Forecast ($000) [2]**	**Actual ($000)**	**% variance**
10	Consumer connection	786	172	(78%)
11	System growth	480	10	(98%)
12	Asset replacement and renewal	4,720	5,723	21%
13	Asset relocations	20	54	174%
14	Reliability, safety and environment:			
15	Quality of supply	2,901	1,839	(37%)
16	Legislative and regulatory	87	446	410%
17	Other reliability, safety and environment	35	11	(69%)
18	**Total reliability, safety and environment**	3,023	2,295	(24%)
19	**Expenditure on network assets**	9,029	8,254	(9%)
20	Non-network capex	858	718	(16%)
21	**Expenditure on assets**	9,887	8,972	(9%)
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	699	672	(4%)
24	Vegetation management	424	365	(14%)
25	Routine and corrective maintenance and inspection	539	930	73%
26	Asset replacement and renewal	884	707	(20%)
27	**Network opex**	2,546	2,674	5%
28	System operations and network support	2,230	2,269	2%
29	Business support	3,736	2,788	(25%)
30	**Non-network opex**	5,966	5,057	(15%)
31	**Operational expenditure**	8,512	7,731	(9%)
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses	-	-	-
34	Overhead to underground conversion	298	351	18%
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	N/A	-	-
39	Direct billing	N/A	-	-
40	Research and development	N/A	-	-
41	Insurance	N/A	-	-
42				

43 *1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of the Determination*

44 *2 From the nominal dollar expenditure forecast and disclosed in the second to last AMP as the year CY+1 forecast*

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**
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 **8(i): Billed Quantities by Price Component**

9
10
11

					Billed quantities by price component							
					Price component	Fixed	Fixed	Fixed	Fixed	Fixed	Variable	Fixed	
12					**Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)**	Days	kVA/Day	kVA/Month	kW/Month	Light/Month	kWh	Month	*Add extra columns for additional billed quantities by price component as necessary*
13	**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)**								
14													
15	(LUDU) Domestic LFC Urban	Domestic	Standard	7,771	38,174	2,836,249	-	-	-	-	38,174	-	
	(LUDR) Domestic LFC Rural	Domestic	Standard	3,764	19,227	1,373,797	-	-	-	-	19,227	-	
	(N1U)	Capacity	Standard	588	3,269	214,654	-	-	-	-	3,269	-	
	(N2U)	Capacity	Standard	801	13,120	292,527	-	-	-	-	13,120	-	
	(N3U)	Capacity	Standard	271	10,298	98,896	-	-	-	-	10,298	-	
	(N4U)	Capacity	Standard	56	2,930	20,385	-	-	-	-	2,930	-	
	(N5U)	Capacity	Standard	32	2,452	-	1,973,920	-	-	-	2,452	-	
	(N1R)	Capacity	Standard	888	3,058	324,222	-	-	-	-	3,058	-	
	(N2R)	Capacity	Standard	1,836	24,396	670,287	-	-	-	-	24,396	-	
	(N3R)	Capacity	Standard	310	14,661	113,190	-	-	-	-	14,661	-	
	(N4R)	Capacity	Standard	40	2,712	14,451	-	-	-	-	2,712	-	
	(N5R)	Capacity	Standard	27	1,278	-	1,764,045	-	-	-	1,278	-	
	(SDU) Domestic Standard - Urban	Domestic	Standard	4,253	31,865	1,552,332	-	-	-	-	31,865	-	
	(SDR) Domestic Standard - Rural	Domestic	Standard	3,067	26,782	1,119,408	-	-	-	-	26,782	-	
16	(NSDU) Domestic Non-Standard - U	Domestic	Standard	318	1,081	115,970	-	-	-	-	1,081	-	
17	(NSDR) Domestic Non-Standard - Ru	Domestic	Standard	392	943	143,138	-	-	-	-	943	-	
18	Variable Charge (NMD)	Network Maximum Demand	Standard	148	43,848	-	-	442,224	264,624	-	43,848	-	
19	(UV) Veranda Light	Special	Standard	22	-	8,030	-	-	-	-	-	-	
20	(EF) Electric Fence	Special	Standard	17	-	6,370	-	-	-	-	-	-	
21	(PCM 24) PCM 24 hour	Special	Standard	81	-	-	-	-	-	-	-	78,512	
22	(PCMN) PCM Night only	Special	Standard	17			-	-	-	-		3,468	
23	(SL) Street Lights	Special	Standard	21	2,192	-	-	-	-	4,645	2,192	-	
24	Majors	Industrial	Non-standard	12	270,520	-	-	-	-	-	270,520	144	
25	*Add extra rows for additional consumer groups or price category codes as necessary*												
26			**Standard consumer totals**	24,720	242,286	8,903,906	3,737,965	442,224	264,624	4,645	242,286	81,980	
27			**Non-standard consumer totals**	12	270,520	-	-	-	-	-	270,520	144	
28			**Total for all consumers**	24,732	512,806	8,903,906	3,737,965	442,224	264,624	4,645	512,806	82,124	

29

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**
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

38 **8(ii): Line Charge Revenues ($000) by Price Component**

39

40 **Line charge revenues ($000) by price component**

41

42 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 (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Price component: Fixed	Fixed	Fixed	Fixed	Fixed	Variable	Fixed
							Rate (eg, $/day, $/kWh, etc.): $/Days	c/kVA/Day	$/kVA/Month	$/kW/Month	$/Light/Month	c/kWh	$/Month
43													
44 (LUDU) Domestic LFC Urban	Domestic	Standard	$4,226		$3,278	$948	$425	-	-	-	-	$3,801	-
45 (LUDR) Domestic LFC Rural	Domestic	Standard	$2,121		$1,652	$470	$206	-	-	-	-	$1,915	-
(N1U)	Commercial	Standard	$397		$317	$80	$336	-	-	-	-	$62	-
(N2U)	Commercial	Standard	$1,174		$900	$274	$589	-	-	-	-	$585	-
(N3U)	Commercial	Standard	$728		$542	$185	$358	-	-	-	-	$370	-
(N4U)	Commercial	Standard	$279		$202	$76	$141	-	-	-	-	$138	-
(N5U)	Commercial	Standard	$212		$148	$64	-	$117	-	-	-	$94	-
(N1R)	Commercial	Standard	$565		$443	$122	$507	-	-	-	-	$58	-
(N2R)	Commercial	Standard	$3,262		$2,633	$629	$1,570	-	-	-	-	$1,692	-
(N3R)	Commercial	Standard	$1,206		$994	$212	$547	-	-	-	-	$658	-
(N4R)	Commercial	Standard	$223		$168	$54	$106	-	-	-	-	$117	-
(N5R)	Commercial	Standard	$193		$136	$56	-	$118	-	-	-	$74	-
(SDU) Domestic Standard - Urban	Domestic	Standard	$3,534		$2,750	$784	$2,333	-	-	-	-	$1,201	-
(SDR) Domestic Standard - Rural	Domestic	Standard	$2,689		$2,123	$565	$1,682	-	-	-	-	$1,006	-
(NSDU) Domestic Non-Standard - U	Domestic	Standard	$202		$158	$43	$181	-	-	-	-	$21	-
46 (NSDR) Domestic Non-Standard - Ru	Domestic	Standard	$241		$187	$54	$224	-	-	-	-	$17	-
47 Variable Charge (NMD)	Commercial	Standard	$3,582		$2,651	$931	-	-	$533	$1,676	-	$1,372	-
48 (UV) Veranda Light	Commercial	Standard	$4		$4	$0	$4	-	-	-	-	-	-
49 (EF) Electric Fence	Commercial	Standard	$3		$3	$0	$3	-	-	-	-	-	-
50 (PCM 24) PCM 24 hour	Commercial	Standard	$49		$41	$8	-	-	-	-	-	-	$49
51 (PCMN) PCM Night only	Commercial	Standard	$5		$5	$1	-	-	-	-	-	-	$5
52 (SL) Street Lights	Commercial	Standard	$262		$224	$38	-	-	-	-	$262	-	-
53 Majors	Industrial	Non-standard	$4,822		$1,004	$3,818	-	-	-	-	-	-	$4,822
54 *Add extra rows for additional consumer groups or price category codes as necessary*													
55 **Standard consumer totals**			$25,155	-	$19,561	$5,595	$9,214	$236	$533	$1,676	$262	$13,181	$54
56 **Non-standard consumer totals**			$4,822	-	$1,004	$3,818	-	-	-	-	-	-	$4,822
57 **Total for all consumers**			$29,977	-	$20,565	$9,412	$9,214	$236	$533	$1,676	$262	$13,181	$4,876

Add extra columns for additional line charge revenues by price component as necessary

58

59 **8(iii): Number of ICPs directly billed**

Check OK

60 **Number of directly billed ICPs at year end** 8

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**
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

8	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.	19,311	18,435	(876)	2
10	All	Overhead Line	Wood poles	No.	2,760	2,009	(751)	2
11	All	Overhead Line	Other pole types	No.	1,286	70	(1,216)	2
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	174	174	(0)	3
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	4	4	(0)	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	-	-	-	N/A
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.	11	11	-	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.	22	26	4	1
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	10	10	-	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	9	8	(1)	2
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	52	53	1	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	8	6	(2)	4
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	22	15	(7)	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,454	1,447	(8)	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
37	HV	Distribution Line	SWER conductor	km	62	62	1	3
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	155	154	(2)	2
39	HV	Distribution Cable	Distribution UG PILC	km	33	35	2	2
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.	84	100	16	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	6,048	4,328	(1,720)	1
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	N/A
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	209	213	4	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	2,602	2,484	(118)	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	740	729	(11)	2
48	HV	Distribution Transformer	Voltage regulators	No.	1	1	-	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	734	784	50	2
50	LV	LV Line	LV OH Conductor	km	226	229	3	2
51	LV	LV Cable	LV UG Cable	km	264	277	13	2
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	203	211	8	2
53	LV	Connections	OH/UG consumer service connections	No.	24,675	24,733	58	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	74	99	25	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	4
56	All	Capacitor Banks	Capacitors including controls	No	1	1	-	4
57	All	Load Control	Centralised plant	Lot	4	4	-	4
58	All	Load Control	Relays	No	-	-	-	N/A
59	All	Civils	Cable Tunnels	km	-	-	-	N/A

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**
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

Disclosure Year (year ended): 31 March 2014

Number of assets at disclosure year end by installation date

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	No. with Age unknown	Total assets at year end	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	No.		39	720	2,995	5,551	2,927	885	308	123	107	82	93	97	118	82	102	83	86	55	45	107	89	3,741	18,435		2
11	All	Overhead Line	Wood poles	No.		6	91	111	82	158	106	22	22	23	4	13	15	22	11	17	36	20	46	13	21	32	1,138	2,009		2
12	All	Overhead Line	Other pole types	No.		-	8	3	13	14	-	1	-	-	-	-	-	-	-	-	1	3	-	-	1	-	26	70		2
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km		-	-	31	36	85	21	-	-	-	-	-	-	0	-	-	0	-	0	-	-	1	-	174		1
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km		-	-	0	-	3	0	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	4		4
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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		N/A
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	2	3	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	11		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.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26		1
30	HV	Zone substation switchgear	33kV RMU	No.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		N/A
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	10		4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.		-	-	-	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	8		2
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.		-	-	-	-	15	29	-	-	-	-	-	-	-	-	-	-	1	-	-	8	-	-	53		4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.		-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6		4
45	HV	Zone Substation Transformer	Zone Substation Transformers	No.		-	-	8	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	15		4
46	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1	8	50	247	287	406	264	14	23	19	7	15	10	15	10	15	7	9	10	0	10	4	16	1,447		3
47	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		N/A
48	HV	Distribution Line	SWER conductor	km		-	-	42	3	5	4	-	-	5	-	-	-	-	-	-	-	-	-	-	-	3	-	62		3
49	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0	0	0	2	11	41	26	3	5	2	2	3	4	5	6	5	8	4	4	4	8	6	2	154		2
50	HV	Distribution Cable	Distribution UG PILC	km	-	-	-	3	9	20	1	1	-	-	0	-	-	0	0	0	0	0	0	1	0	0	1	35		2
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.		-	-	-	-	7	-	-	-	-	-	-	-	-	1	-	-	2	18	35	17	4	16	100		1
53	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		N/A
54	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,328	4,328		1
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	2	12	27	28	6	10	6	5	9	5	14	4	8	14	7	5	5	22	15	7	213		3
57	HV	Distribution Transformer	Pole Mounted Transformer	No.	25	6	101	308	457	520	362	46	57	85	55	60	37	83	47	11	5	1	-	29	44	66	79	2,484		3
58	HV	Distribution Transformer	Ground Mounted Transformer	No.	9	3	7	58	121	177	48	10	19	16	15	23	30	37	13	1	4	1	5	6	23	24	79	729		2
59	HV	Distribution Transformer	Voltage regulators	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1		4
60	HV	Distribution Substations	Ground Mounted Substation Housing	No.	1	1	-	34	74	241	199	9	16	12	11	21	12	23	13	18	13	12	11	14	17	18	14	784		2
61	LV	LV Line	LV OH Conductor	km		-	1	7	43	23	90	46	1	1	1	1	-	2	-	0	0	0	1	0	1	0	11	229		2
62	LV	LV Cable	LV UG Cable	km		-	0	24	55	26	106	35	3	3	4	2	1	2	1	1	0	0	0	1	2	4	6	277		2
63	LV	LV Street lighting	LV OH/UG Streetlight circuit	km		-	-	15	45	24	80	20	3	3	4	2	2	2	3	1	0	0	0	0	2	2	3	211		2
64	LV	Connections	OH/UG consumer service connections	No.	1	8	37	2,180	4,464	6,626	7,397	627	302	234	285	320	338	335	270	351	239	187	148	134	60	70	120	24,733		3
65	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.						7	18	-	5	2						2	1	16	2	-	46	-	-	99		3
66	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot								-	-	-	1									-	-	-	-	1		4
67	All	Capacitor Banks	Capacitors including controls	No								-	-	-										-	1	-	-	1		4
68	All	Load Control	Centralised plant	Lot						4		-	-	-										-	-	-	-	4		4
69	All	Load Control	Relays	No								-	-	-										-	-	-	-	-		N/A
70	All	Civils	Cable Tunnels	km								-	-	-										-	-	-	-	-		N/A

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**
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	174	4	178
14	SWER (all SWER voltages)	62	-	62
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	1,447	189	1,635
17	Low voltage (< 1kV)	229	277	506
18	**Total circuit length (for supply)**	1,912	469	2,381
19				
20	Dedicated street lighting circuit length (km)	-	19	19
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			466
22				
23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**	
24	Urban	222	12%	
25	Rural	1,019	53%	
26	Remote only	162	8%	
27	Rugged only	371	19%	
28	Remote and rugged	118	6%	
29	Unallocated overhead lines	20	1%	
30	**Total overhead length**	1,912	100%	
31				
32		**Circuit length (km)**	**(% of total circuit length)**	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	1,846	78%	
34		**Circuit length (km)**	**(% of total overhead length)**	
35	Overhead circuit requiring vegetation management	1,912	100%	

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**

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)
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
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*

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**
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

8 **9e(i): Consumer Connections**

9 *Number of ICPs connected in year by consumer type*

	*Consumer types defined by EDB**	**Number of connections (ICPs)**
10		
11	Domestic	50
12	General	16
13	Demand	(8)
14	Majors	-
15	* include additional rows if needed	-

16 ** include additional rows if needed*

17	**Connections total**	58

18

19 **Distributed generation**

20	Number of connections made in year	15	**connections**
21	Capacity of distributed generation installed in year	0	**MVA**

22 **9e(ii): System Demand**

23

24

25 **Maximum coincident system demand**

			Demand at time of maximum coincident demand (MW)
26		GXP demand	80
27	*plus*	Distributed generation output at HV and above	4
28		**Maximum coincident system demand**	84
29	*less*	Net transfers to (from) other EDBs at HV and above	-
30		**Demand on system for supply to consumers' connection points**	84

31 **Electricity volumes carried**

			Energy (GWh)	**Energy (GWh)**
32		Electricity supplied from GXPs	450	
33	*less*	Electricity exports to GXPs	-	
34	*plus*	Electricity supplied from distributed generation	85	
35	*less*	Net electricity supplied to (from) other EDBs	-	
36		**Electricity entering system for supply to consumers' connection points**	535	
37	*less*	Total energy delivered to ICPs	513	
38		**Electricity losses (loss ratio)**	22	4.1%

39

40	**Load factor**	1

41 **9e(iii): Transformer Capacity**

		(MVA)
42		
43	Distribution transformer capacity (EDB owned)	222
44	Distribution transformer capacity (Non-EDB owned)	79
45	**Total distribution transformer capacity**	301

46

47	**Zone substation transformer capacity**	88

Company Name	**Horizon Energy Distribution Limited**
For Year Ended	**31 March 2014**
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

8 **10(i): Interruptions**

		Number of interruptions
9	**Interruptions by class**	
10	Class A (planned interruptions by Transpower)	1
11	Class B (planned interruptions on the network)	70
12	Class C (unplanned interruptions on the network)	92
13	Class D (unplanned interruptions by Transpower)	5
14	Class E (unplanned interruptions of EDB owned generation)	-
15	Class F (unplanned interruptions of generation owned by others)	-
16	Class G (unplanned interruptions caused by another disclosing entity)	-
17	Class H (planned interruptions caused by another disclosing entity)	-
18	Class I (interruptions caused by parties not included above)	-
19	**Total**	168

		≤3Hrs	>3hrs
21	**Interruption restoration**		
22	Class C interruptions restored within	74	18

		SAIFI	SAIDI
24	**SAIFI and SAIDI by class**		
25	Class A (planned interruptions by Transpower)	0.04	0.89
26	Class B (planned interruptions on the network)	0.12	16.46
27	Class C (unplanned interruptions on the network)	1.65	181.52
28	Class D (unplanned interruptions by Transpower)	0.30	29.49
29	Class E (unplanned interruptions of EDB owned generation)	-	-
30	Class F (unplanned interruptions of generation owned by others)	-	-
31	Class G (unplanned interruptions caused by another disclosing entity)	-	-
32	Class H (planned interruptions caused by another disclosing entity)	-	-
33	Class I (interruptions caused by parties not included above)	-	-
34	**Total**	2.11	228.4

		Normalised SAIFI	Normalised SAIDI
36	**Normalised SAIFI and SAIDI**		
37	Classes B & C (interruptions on the network)	1.77	186.3

		SAIFI reliability limit	SAIDI reliability limit
39	**Quality path normalised reliability limit**		
40	SAIFI and SAIDI limits applicable to disclosure year*	2.40	220.1
41	** not applicable to exempt EDBs*		

42 **10(ii): Class C Interruptions and Duration by Cause**

		SAIFI	SAIDI
44	**Cause**		
45	Lightning	0.05	6.73
46	Vegetation	0.13	11.35
47	Adverse weather	0.07	14.29
48	Adverse environment	-	-
49	Third party interference	0.20	20.47
50	Wildlife	0.00	0.29
51	Human error	0.11	1.09
52	Defective equipment	0.83	114.35
53	Cause unknown	0.26	12.95

62 **10(iii): Class B Interruptions and Duration by Main Equipment Involved**

		SAIFI	SAIDI
64	**Main equipment involved**		
65	Subtransmission lines	-	-
66	Subtransmission cables	-	-
67	Subtransmission other	-	-
68	Distribution lines (excluding LV)	0.09	11.23
69	Distribution cables (excluding LV)	0.03	4.50
70	Distribution other (excluding LV)	0.00	0.73

71 **10(iv): Class C Interruptions and Duration by Main Equipment Involved**

		SAIFI	SAIDI
73	**Main equipment involved**		
74	Subtransmission lines	0.32	67.25
75	Subtransmission cables	-	-
76	Subtransmission other	-	-
77	Distribution lines (excluding LV)	1.12	90.50
78	Distribution cables (excluding LV)	0.21	23.78
79	Distribution other (excluding LV)	-	-

80 **10(v): Fault Rate**

		Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
81	**Main equipment involved**			
82	Subtransmission lines	4	174	2.30
83	Subtransmission cables	-	4	-
84	Subtransmission other	-		
85	Distribution lines (excluding LV)	80	1,509	5.30
86	Distribution cables (excluding LV)	8	189	4.24
87	Distribution other (excluding LV)	-		
88	**Total**	92		

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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*
7													
8		for year ended	**31 Mar 14**	**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**
9	**11a(i): Expenditure on Assets Forecast**		**$000 (in nominal dollars)**										
10		Consumer connection	140	394	405	416	428	440	452	465	478	491	505
11		System growth	96	492	539	3,466	4,157	4,599	2,510	129	1,479	479	492
12		Asset replacement and renewal	5,712	3,977	5,178	3,618	3,592	2,911	4,946	5,170	6,257	7,439	7,905
13		Asset relocations	71	20	20	21	21	22	23	23	24	25	25
14		Reliability, safety and environment:											
15		Quality of supply	1,685	2,292	2,750	1,974	330	227	126	1,276	1,170	1,091	238
16		Legislative and regulatory	285	77	202	-	-	219	226	232	238	-	-
17		Other reliability, safety and environment	13	710	729	-	250	-	421	361	-	-	-
18		**Total reliability, safety and environment**	1,983	3,078	3,680	1,974	581	447	773	1,870	1,408	1,091	238
19		**Expenditure on network assets**	8,002	7,961	9,823	9,495	8,779	8,419	8,704	7,657	9,645	9,524	9,166
20		Non-network assets	950	1,669	1,198	674	788	605	669	955	720	675	923
21		**Expenditure on assets**	8,952	9,629	11,020	10,169	9,566	9,023	9,373	8,611	10,365	10,200	10,089
22													
23	*plus*	Cost of financing	104	103	128	123	114	109	113	100	125	124	119
24	*less*	Value of capital contributions	265	269	276	284	292	300	308	317	326	335	344
25	*plus*	Value of vested assets											
26													
27		**Capital expenditure forecast**	8,791	9,464	10,872	10,008	9,388	8,833	9,178	8,394	10,164	9,988	9,863
28													
29		Value of commissioned assets	8,206	9,701	10,569	10,114	9,563	8,939	9,169	8,630	9,853	10,057	9,975

			Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*	*CY+6*	*CY+7*	*CY+8*	*CY+9*	*CY+10*
30		for year ended	**31 Mar 14**	**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**
32			**$000 (in constant prices)**										
33		Consumer connection	140	388	388	388	388	388	388	388	388	388	388
34		System growth	96	485	517	3,235	3,774	4,062	2,157	108	1,203	379	379
35		Asset replacement and renewal	5,712	3,922	4,968	3,377	3,261	2,571	4,249	4,321	5,086	5,883	6,081
36		Asset relocations	71	19	19	19	19	19	19	19	19	19	19
37		Reliability, safety and environment:											
38		Quality of supply	1,685	2,261	2,638	1,842	300	201	108	1,067	951	863	183
39		Legislative and regulatory	285	76	194	-	-	194	194	194	194	-	-
40		Other reliability, safety and environment	13	700	699	-	227	-	362	302	-	-	-
41		**Total reliability, safety and environment**	1,983	3,036	3,531	1,842	527	395	664	1,562	1,145	863	183
42		**Expenditure on network assets**	8,002	7,851	9,424	8,861	7,970	7,435	7,477	6,398	7,841	7,532	7,051
43		Non-network assets	950	1,646	1,149	629	715	534	575	798	585	534	710
44		**Expenditure on assets**	8,952	9,497	10,573	9,490	8,685	7,969	8,052	7,196	8,426	8,066	7,761
45													
46	**Subcomponents of expenditure on assets (where known)**												
47		Energy efficiency and demand side management, reduction of energy losses											
48		Overhead to underground conversion	298	278	322	205	319	161	197	1,107	1,135	1,620	986
49		Research and development											

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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*
58	for year ended	**31 Mar 14**	**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**
59	**Difference between nominal and constant price forecasts**	**$000**										
60	Consumer connection	-	5	16	28	39	51	64	76	89	103	116
61	System growth	-	7	22	231	383	537	354	21	277	100	114
62	Asset replacement and renewal	-	55	210	241	331	340	697	850	1,170	1,556	1,824
63	Asset relocations	-	0	1	1	2	3	3	4	4	5	6
64	Reliability, safety and environment:											
65	Quality of supply	-	31	112	132	30	27	18	210	219	228	55
66	Legislative and regulatory	-	1	8	-	-	26	32	38	45	-	-
67	Other reliability, safety and environment	-	10	30	-	23	-	59	59	-	-	-
68	**Total reliability, safety and environment**	-	42	149	132	53	52	109	307	263	228	55
69	**Expenditure on network assets**	-	109	399	633	809	984	1,226	1,258	1,804	1,993	2,115
70	Non-network assets	-	23	49	45	73	71	94	157	135	141	213
71	**Expenditure on assets**	-	132	447	678	881	1,054	1,321	1,415	1,939	2,134	2,328
72												

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
73	for year ended	**31 Mar 14**	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**
74	**11a(ii): Consumer Connection**						
75	*Consumer types defined by EDB**	**$000 (in constant prices)**					
76	General	140	388	388	388	388	388
77	[EDB consumer type]						
78	[EDB consumer type]						
79	[EDB consumer type]						
80	[EDB consumer type]						
81	**include additional rows if needed*						
82	**Consumer connection expenditure**	140	388	388	388	388	388
83	*less* Capital contributions funding consumer connection	265	265	265	265	265	265
84	**Consumer connection less capital contributions**	(125)	123	123	123	123	123
85	**11a(iii): System Growth**						
86	Subtransmission	96					
87	Zone substations		485	517	3,235	3,774	2,912
88	Distribution and LV lines						
89	Distribution and LV cables						1,150
90	Distribution substations and transformers						
91	Distribution switchgear						
92	Other network assets						
93	**System growth expenditure**	96	485	517	3,235	3,774	4,062
94	*less* Capital contributions funding system growth						
95	**System growth less capital contributions**	96	485	517	3,235	3,774	4,062

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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*
104		for year ended	**31 Mar 14**	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**
105	**11a(iv): Asset Replacement and Renewal**		**$000 (in constant prices)**					
106	Subtransmission		5,712	24	186	425	24	256
107	Zone substations			453	2,286	197	698	12
108	Distribution and LV lines			781	697	566	548	605
109	Distribution and LV cables			690	1,010	1,171	912	912
110	Distribution substations and transformers			257	293	408	541	407
111	Distribution switchgear			155	78	129	78	78
112	Other network assets			1,563	419	481	460	302
113	**Asset replacement and renewal expenditure**		5,712	3,922	4,968	3,377	3,261	2,571
114	*less* Capital contributions funding asset replacement and renewal							
115	**Asset replacement and renewal less capital contributions**		5,712	3,922	4,968	3,377	3,261	2,571
116	**11a(v):Asset Relocations**							
117	*Project or programme**							
118	Transformer relocations driven by customer requests			19	19	19	19	19
119	[Description of material project or programme]							
120	[Description of material project or programme]							
121	[Description of material project or programme]							
122	[Description of material project or programme]							
123	**include additional rows if needed*							
124	All other asset relocations projects or programmes		71					
125	**Asset relocations expenditure**		71	19	19	19	19	19
126	*less* Capital contributions funding asset relocations							
127	**Asset relocations less capital contributions**		71	19	19	19	19	19
128								
129	**11a(vi):Quality of Supply**							
130	*Project or programme**							
131	4th Poletop repeater- Installation					216		
132	2nd 33kV line into Aniwhenua					718		
	Gateway-33kV development & integration to CHH Y1			845				
	Manawahe Voltage ragulator						207	
	SCADA System-smart network enhancements					310		
133	Underground Plains-East bank high capacity tie feeder					277		
	Valley Road Tie Kawerau			291				
134	Manawahe-McIvor Rd tie line Stage 3					227		
135	Gateway-33kV development & integration to CHH Y2				1,302			
136	**include additional rows if needed*							
137	All other quality of supply projects or programmes		1,685	1,125	1,336	93	93	201
138	**Quality of supply expenditure**		1,685	2,261	2,638	1,842	300	201
139	*less* Capital contributions funding quality of supply							
140	**Quality of supply less capital contributions**		1,685	2,261	2,638	1,842	300	201
141								
142	**11a(vii): Legislative and Regulatory**							
143	*Project or programme**							
144	[Description of material project or programme]							
145	[Description of material project or programme]							
146	[Description of material project or programme]							
147	[Description of material project or programme]							
148	[Description of material project or programme]							
149	**include additional rows if needed*							
150	All other legislative and regulatory projects or programmes		285	76	194			194
151	**Legislative and regulatory expenditure**		285	76	194	-	-	194
152	*less* Capital contributions funding legislative and regulatory							
153	**Legislative and regulatory less capital contributions**		285	76	194	-	-	194

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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*
161							
162	for year ended	**31 Mar 14**	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**
163	**11a(viii): Other Reliability, Safety and Environment**						
164	*Project or programme**	**$000 (in constant prices)**					
165	Te Rahu South /WBM South Structures reconfigure					227	
166	Galatea 33kV bus upgrade plus line CB's		259				
167	1000 KVA Generator #2			687			
168	[Description of material project or programme]						
169	[Description of material project or programme]						
170	*include additional rows if needed*						
171	All other reliability, safety and environment projects or programmes	13	441	13			
172	**Other reliability, safety and environment expenditure**	13	700	699	-	227	-
173	*less* Capital contributions funding other reliability, safety and environment						
174	**Other reliability, safety and environment less capital contributions**	13	700	699	-	227	-
175							
176							
177							
178	**11a(ix): Non-Network Assets**						
179	**Routine expenditure**						
180	*Project or programme**						
181	Information and technology systems	487	661	306	501	672	506
182	Asset management systems	17	3				
183	Office buildings, depots, and workshops	31	42	5	25	5	25
184	Office furniture and equipment	166	8	3	3	3	3
185	Motor vehicles	54		35		35	
186	*include additional rows if needed*						
187	All other routine expenditure projects or programmes						
188	**Routine expenditure**	755	714	349	529	715	534
189	**Atypical expenditure**						
190	*Project or programme**						
191	Information and technology systems			300	100		
192	Asset management systems	195	932	500			
193	[Description of material project or programme]						
194	[Description of material project or programme]						
195	[Description of material project or programme]						
196	*include additional rows if needed*						
197	All other atypical projects or programmes						
198	**Atypical expenditure**	195	932	800	100	-	-
199							
200	**Non-network assets expenditure**	950	1,646	1,149	629	715	534

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*	*CY+6*	*CY+7*	*CY+8*	*CY+9*	*CY+10*
7												
8	for year ended	**31 Mar 14**	**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**
9	**Operational Expenditure Forecast**	**$000 (in nominal dollars)**										
10	Service interruptions and emergencies	701	564	579	596	612	635	653	671	690	709	729
11	Vegetation management	364	482	495	509	523	538	553	569	585	601	618
12	Routine and corrective maintenance and inspection	548	723	807	952	921	875	801	877	824	942	942
13	Asset replacement and renewal	1,088	1,001	974	803	960	1,091	1,107	1,330	1,140	1,033	1,063
14	**Network Opex**	2,701	2,769	2,855	2,860	3,017	3,139	3,113	3,446	3,238	3,285	3,351
15	System operations and network support	2,187	2,517	2,587	2,660	2,734	2,811	2,890	2,970	3,054	3,139	3,227
16	Business support	2,710	2,741	2,818	2,897	2,978	3,061	3,147	3,235	3,326	3,419	3,514
17	**Non-network opex**	4,897	5,258	5,405	5,557	5,712	5,872	6,037	6,206	6,379	6,558	6,742
18	**Operational expenditure**	7,598	8,027	8,260	8,416	8,729	9,011	9,150	9,652	9,617	9,843	10,093

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*	*CY+6*	*CY+7*	*CY+8*	*CY+9*	*CY+10*
19												
20	for year ended	**31 Mar 14**	**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**
21		**$000 (in constant prices)**										
22	Service interruptions and emergencies	701	556	556	556	556	561	561	561	561	561	561
23	Vegetation management	364	475	475	475	475	475	475	475	475	475	475
24	Routine and corrective maintenance and inspection	548	714	774	889	836	773	688	733	670	745	724
25	Asset replacement and renewal	1,088	987	934	749	871	964	951	1,111	926	817	818
26	**Network Opex**	2,701	2,731	2,739	2,669	2,739	2,772	2,674	2,880	2,632	2,598	2,578
27	System operations and network support	2,187	2,482	2,482	2,482	2,482	2,482	2,482	2,482	2,482	2,482	2,482
28	Business support	2,710	2,704	2,704	2,704	2,704	2,704	2,704	2,704	2,704	2,704	2,704
29	**Non-network opex**	4,897	5,186	5,186	5,186	5,186	5,186	5,186	5,186	5,186	5,186	5,186
30	**Operational expenditure**	7,598	7,917	7,925	7,855	7,925	7,958	7,860	8,066	7,818	7,784	7,764
31	**Subcomponents of operational expenditure (where known)**											
32	Energy efficiency and demand side management, reduction of energy losses											
33	Direct billing*											
34	Research and Development											
35	Insurance											
36												

37 ** Direct billing expenditure by suppliers that direct bill the majority of their consumers*

38

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*	*CY+6*	*CY+7*	*CY+8*	*CY+9*	*CY+10*
39												
40	for year ended	**31 Mar 14**	**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**
41	**Difference between nominal and real forecasts**	**$000**										
42	Service interruptions and emergencies	-	8	24	40	56	74	92	110	129	148	168
43	Vegetation management	-	7	20	34	48	63	78	93	109	126	143
44	Routine and corrective maintenance and inspection	-	10	33	64	85	102	113	144	154	197	217
45	Asset replacement and renewal	-	14	40	54	88	128	156	219	213	216	245
46	**Network Opex**	-	38	116	191	278	367	439	566	606	687	773
47	System operations and network support	-	35	105	177	252	328	407	488	571	657	745
48	Business support	-	38	114	193	274	358	443	532	622	715	811
49	**Non-network opex**	-	72	219	371	526	686	851	1,020	1,193	1,372	1,556
50	**Operational expenditure**	-	110	335	561	804	1,053	1,289	1,586	1,799	2,059	2,329

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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)**						
8	**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**
9											
10	All	Overhead Line	Concrete poles / steel structure	No.	-	0.86%	99.14%	-	-	3	1.05%
11	All	Overhead Line	Wood poles	No.	-	3.90%	96.10%	-	-	3	4.40%
12	All	Overhead Line	Other pole types	No.	-	-	-	-	-	3	-
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	-	100.00%	-	-	3	-
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	-	-	N/A	-
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-	-	100.00%	-	-	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	-	-	-	-	-	N/A	-
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.	-	-	88.89%	11.11%	-	3	-
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	-	-	N/A	-
26	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	100.00%	-	4	-
27	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	100.00%	-	-	4	50.00%
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	-	-	0	-
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	-	-	100.00%	-	3	20.00%
30	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	-	-	N/A	-
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.	-	-	100.00%	-	-	3	-
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	66.67%	33.33%	-	-	3	60.00%

Company Name	**Horizon Energy Distribution Limited**
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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)						
42											
43											
	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**
44											
45	HV	Zone Substation Transformer	Zone Substation Transformers	No.	-	-	100.00%	-	-	4	9.09%
46	HV	Distribution Line	Distribution OH Open Wire Conductor	km	-	-	100.00%	-	-	3	0.33%
47	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	-	-	N/A	-
48	HV	Distribution Line	SWER conductor	km	-	9.38%	90.63%	-	-	3	9.38%
49	HV	Distribution Cable	Distribution UG XLPE or PVC	km	-	-	100.00%	-	-	2	-
50	HV	Distribution Cable	Distribution UG PILC	km	-	-	100.00%	-	-	2	-
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.	-	-	71.83%	28.17%	-	3	-
53	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	100.00%	-	-	3	-
54	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	-	-	100.00%	-	-	2	0.63%
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.	-	6.67%	88.00%	5.33%	-	3	13.33%
57	HV	Distribution Transformer	Pole Mounted Transformer	No.	-	-	100.00%	-	-	2	1.85%
58	HV	Distribution Transformer	Ground Mounted Transformer	No.	-	-	100.00%	-	-	3	6.85%
59	HV	Distribution Transformer	Voltage regulators	No.	-	-	-	100.00%	-	4	-
60	HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	-	100.00%	-	-	3	5.88%
61	LV	LV Line	LV OH Conductor	km	-	-	100.00%	-	-	2	2.09%
62	LV	LV Cable	LV UG Cable	km	-	-	100.00%	-	-	2	0.64%
63	LV	LV Streetlighting	LV OH/UG Streetlight circuit	km	-	-	100.00%	-	-	2	0.89%
64	LV	Connections	OH/UG consumer service connections	No.	-	1.25%	98.75%	-	-	3	2.08%
65	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-	55.67%	20.62%	23.71%	-	4	60.82%
66	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	-	-	100.00%	-	-	3	100.00%
67	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	100.00%	-	4	-
68	All	Load Control	Centralised plant	Lot	-	25.00%	75.00%	-	-	3	25.00%
69	All	Load Control	Relays	No.	-	-	-	-	-	N/A	-
70	All	Civils	Cable Tunnels	km	-	-	-	-	-	N/A	-

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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

7 **12b(i): System Growth - Zone Substations**

8

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
East Bank	8	-	N	20	-	-	-	No constraint within +5 years	N-1 switched security of supply from adjacent substations
Galatea	5	8	N-1	-	61%	8	62%	No constraint within +5 years	None
Kaingaroa	3	5	N-1	-	48%	5	48%	No constraint within +5 years	None
Kopeopeo	14	13	N-1	12	109%	13	120%	Subtransmission circuit	Incoming cables thermal capacity exceeded
Ohope	4	-	N	4	-	-	-	Transformer	Single phase tx with one installed spare
Plains	7	-	N	17	-	-	-	No constraint within +5 years	N-1 switched security of supply from adjacent substations
Station Road	10	10	N-1	18	101%	10	103%	Transformer	N-1 switched security of supply from adjacent substations
[Zone Substation_08]					-			[Select one]	
[Zone Substation_09]					-			[Select one]	
[Zone Substation_10]					-			[Select one]	
[Zone Substation_11]					-			[Select one]	
[Zone Substation_12]					-			[Select one]	
[Zone Substation_13]					-			[Select one]	
[Zone Substation_14]					-			[Select one]	
[Zone Substation_15]					-			[Select one]	
[Zone Substation_16]					-			[Select one]	
[Zone Substation_17]					-			[Select one]	
[Zone Substation_18]					-			[Select one]	
[Zone Substation_19]					-			[Select one]	
[Zone Substation_20]					-			[Select one]	

9–28

29 [1] *Extend forecast capacity table as necessary to disclose all capacity by each zone substation*

30 **12b(ii): Transformer Capacity**

	(MVA)
Distribution transformer capacity (EDB owned)	225
Distribution transformer capacity (Non-EDB owned)	79
Total distribution transformer capacity	304
Zone substation transformer capacity	88

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**

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 14**	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**
	*Consumer types defined by EDB**						
	All Consumer types	55	43	39	36	33	31
	[EDB consumer type]						
	[EDB consumer type]						
	[EDB consumer type]						
	[EDB consumer type]						
	Connections total	55	43	39	36	33	31

**include additional rows if needed*

Distributed generation

Number of connections	31	45	60	75	90	105
Installed connection capacity of distributed generation (MVA)	4	4	4	4	5	5

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 14**	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**
	GXP demand	80	81	82	83	85	86
plus	Distributed generation output at HV and above	4	4	4	4	4	4
	Maximum coincident system demand	84	85	86	88	89	90
less	Net transfers to (from) other EDBs at HV and above						
	Demand on system for supply to consumers' connection points	84	85	86	88	89	90
Electricity volumes carried (GWh)							
	Electricity supplied from GXPs	445	445	445	445	445	445
less	Electricity exports to GXPs	-	-	-	-	-	-
plus	Electricity supplied from distributed generation	112	112	112	112	112	112
less	Net electricity supplied to (from) other EDBs	-	-	-	-	-	-
	Electricity entering system for supply to ICPs	557	557	557	557	557	557
less	Total energy delivered to ICPs	534	534	534	534	534	534
	Losses	23	23	23	23	23	23
	Load factor	76%	75%	74%	73%	72%	70%
	Loss ratio	4.1%	4.1%	4.1%	4.1%	4.1%	4.1%

Company Name	**Horizon Energy Distribution Limited**
AMP Planning Period	**1 April 2014 – 31 March 2024**
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*
8							
9	for year ended	**31 Mar 14**	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**	**31 Mar 19**
10	**SAIDI**						
11	Class B (planned interruptions on the network)	45.0	20.0	20.0	20.0	20.0	20.0
12	Class C (unplanned interruptions on the network)	100.0	125.0	125.0	125.0	120.0	120.0
13	**SAIFI**						
14	Class B (planned interruptions on the network)	0.30	0.14	0.14	0.14	0.14	0.14
15	Class C (unplanned interruptions on the network)	1.50	1.60	1.60	1.60	1.60	1.60

Company Name	Horizon Energy Distribution Limited
For Year Ended	31 March 2014

Schedule 14 Mandatory Explanatory Notes

(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012)

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 2.5.2.

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 clause 2.7.1(2).

Box 1: Explanatory comment on return on investment
There were no reclassified items during the disclosure year.

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 regulatory line income' other than gains and losses on asset sales, as disclosed in 3(i) of Schedule 3

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

Box 2: Explanatory comment on regulatory profit

Other regulatory income includes:

$219,487 Insurance proceeds for Network Assets
$57,583 Insurance proceeds for DPP Breach
$60,000 Application Fees
$13,440 Engineering & Design Fees
$36, 685 Miscellaneous Network Service Income
$2,480 Bad debts recovered
$389,675 Total

There were no reclassified items during the disclosure year.

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 clause 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

There was no merger and acquisition activity during the year. There have been no items classified differently from the previous year.

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 clause 2.7.1(2).

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

The Regulatory Asset Base has been calculated in accordance with the IM Determination.

However the information contained in Schedule 4(vii) is based on historical records manually maintained in spreadsheet format. Sufficient records have been utilised where possible to comply with the Electricity Distribution Information Disclosure Determination 2012 to determine asset category and asset life. However the historical information used to determine asset category and asset life has been sourced from spreadsheets where the requirements under the Electricity Distribution Information Disclosure Determination 2012 could not have been previously foreseen, and therefore historically these spreadsheets have not been wholly maintained to determine asset category and asset life at the level required under the Electricity Distribution Information Disclosure Determination 2012.

There have been no items classified differently from the previous year.

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

8. In the box below, provide descriptions and workings of the following items, as recorded in the asterisked categories in 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

Income not included in regulatory profit / (loss) before tax but taxable:
Nil

Expenditure or loss in regulatory profit / (loss) before tax but not deductible:
$251,000 Non Deductible Professional Fees
$5,000 Entertainment Non Deductible
$37,000 Provisions Relating to Employee Costs
($90,000) Movement in Bonus Provision
($126,000) General Accrual
$77,000 Total

Income included in regulatory profit / (loss) before tax but not taxable:
Revaluation from schedule 4 (iii) $1,604,000

Expenditure or loss deductible but not in regulatory profit / (loss) before tax:
Nil

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

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

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

($35,000) General Provision
$106,000 DPP Breach Provision
($1,000) ACC Accrual
$12,000 Movement in Bonus Provision
$1,000 Movement in Retirement /Provision
$7,000 Movement in Holiday Pay Provision
$90,000 Total

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 clause 2.3.6(1)(b).

Box 7: Related party transactions

Schedule 5b contains disclosure of all 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 clause 2.7.1(2).

Box 8: Cost allocation

Cost Allocations have been calculated using the ABAA approach as per the IM Determination.

All operating costs except Business Support costs are directly attributable to regulated services. Business Support costs have been allocated to regulated and unregulated services using proxy cost allocators such as; Management's estimate of percentage of staff time working on regulated and unregulated services, apportionment of office space utilised for staff conducting regulated and unregulated services, and apportionment of ICT related costs based on number of staff within regulated and unregulated services. Further use of causal relationships has been utilised to allocate costs to regulated and unregulated services, where the cost driver has led to the cost being incurred.

No items have been reclassified during the disclosure year.

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 clause 2.7.1(2).

Box 9: Commentary on asset allocation

Asset Allocations have been calculated using the ABAA approach as per the IM Determination.

All regulated service asset values except Non-Network asset values are directly attributable to regulated services. Non-Network asset values comprise of ICT equipment and have been allocated to regulated services where a causal relationship exists. Due to the quantum allocated to unregulated services deemed as being not material, Schedule 5e has 100% of the not directly attributable Non-Network asset values being allocated to regulated services.

As noted in Box 4 above, the information contained in Schedule 5e(i) is based on historical records manually maintained in spreadsheet format. Sufficient records have been utilised where possible to comply with the Electricity Distribution Information Disclosure Determination 2012 to determine asset category. However the historical information used to determine asset category has been sourced from spreadsheets where the requirements under the Electricity Distribution Information Disclosure Determination 2012 could not have been previously foreseen, and therefore historically these spreadsheets have not been wholly maintained to determine asset category at the level required under the Electricity Distribution Information Disclosure Determination 2012.

No items have been reclassified during the disclosure year.

Capital Expenditure for the Disclosure Year (Schedule 6a)

13. In the box below, comment on capital expenditure 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 clause 2.7.1(2),

Box 10: Explanation of capital expenditure for the disclosure year

The level of materiality applied for project disclosure is $300K. The 1MVA generator under the quality of supply category has been purchased to reduce planned outages and provide support in emergency situations.

There were no reclassified items during the disclosure year.

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 operating expenditure, as reported in 6b(i) of Schedule 6b;

    14.2 information on reclassified items in accordance with clause 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

The operating expenditure category asset replacement and renewal is used mainly for: non capital expenditure driven by capital expenditure work and refurbishment jobs that do not increase the life of the main asset e.g. Cross arm replacement and cable termination replacement projects.

There were no reclassified items during the disclosure year.

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 clause 2.7.1(2).

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

Customer Connection and System Growth: Were lower than forecast due to a lower than expected number of customer connections requiring capacity upgrades.

Asset Replacement: Was higher than budget mainly due to asset condition testing results and work carried over in conjunction with a Zone Transformer replacement

Reliability Safety and Environment: Was lower than forecast due to a Zone Substation Transformer failure delaying planned work in the affected area but more was spent on ECP34 work.

Routine & Corrective Maintenance & Inspection: Was higher than forecast due to repairs to a faulty Zone Transformer and the new Partial Discharge Testing program which resulted in increased defect identification

There were no reclassified items during the disclosure year.

Information relating to revenue 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 clauses 2.4.1 and 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

There was no material difference between the forecast and actual revenue for the disclosure year.

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

Network reliability is compliant with quality requirements under the default price-quality path, however there are inherent limitations in ability of Horizon Energy Distribution Limited to collect and record the network reliability information required to be disclosed in Reports 10(i) to 10(iv). Consequently there is no independent evidence available to support the completeness and accuracy of recorded faults and control over the completeness and accuracy of installation control point ('ICP') data included in the SAIDI and SAIFI calculations is limited throughout the year.

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

Property insurance coverage for 2014-15 includes Material Damage and Business Interruption with an insured value of $71.2M. Other insurance lines include Motor Vehicle insurance with third party coverage at $10M.

There is no self-insurance or reinsurance scheme operated by Horizon Energy Distribution Limited.

Independent Auditors' Report

To the Directors of Horizon Energy Distribution Limited and the Commerce Commission as a recipient of the Report

Assurance Report Pursuant to Electricity Distribution Information Disclosure Determination 2012

We have completed our assurance engagement in respect of the compliance of Horizon Energy Distribution Limited (the "Company") in the preparation of Schedules 1 to 4, 5a to 5g, 6a and 6b, 7, 10(i) to 10(iv), the explanatory notes disclosed in boxes 1 to 12 of Schedule 14 (the "Schedules") in accordance with the Electricity Distribution Information Disclosure Determination 2012 (the "Determination") for the year ended 31 March 2014.

Directors' Responsibilities

The Directors are responsible for preparation of the Schedules in accordance with the Determination and ensuring the Company keeps records to enable the preparation of the Schedules that are free from material misstatement.

Auditors' Responsibilities

Our responsibility is to express an opinion on whether the Company has complied, in all material respects, with the Determination in the preparation of the Schedules for the year ended 31 March 2014 and to report our opinion to you.

Basis of Opinion

Our engagement has been conducted in accordance with ISAE (NZ) 3000, Assurance Engagements Other than Audits or Reviews of Historical Financial Information and SAE 3100 Compliance Engagements to obtain reasonable assurance that the Company has complied, in all material respects, with the Determination in the preparation of the Schedules for the year ended 31 March 2014.

The procedures we performed were based on our professional judgment, including assessment of the risks of material misstatement in the Audited Schedules, whether due to fraud or error. In making those risk assessments, we considered internal controls relevant to the Company's preparation of the Schedules to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Our procedures included analytical procedures, evaluating the appropriateness of assumptions used and whether they have been consistently applied, and agreement of the Schedules to, or reconciling with, source systems and underlying records. We included an assessment of the significant judgements made by the Company in the preparation of the disclosure information and also evaluated the overall adequacy of the presentation of supporting information and explanations.

These procedures have been undertaken to form an opinion as to whether the Company has complied, in all material respects, with the Determination in the preparation of the Schedules for the year ended 31 March 2014.

We believe that the recorded evidence and explanations we have obtained is sufficient and appropriate to provide a basis for our opinion expressed below.

Use of Report

This report has been prepared for the Directors of the Company in accordance with section 2.8.1(1) of the Determination and is provided solely to assist you in establishing that compliance requirements have been met. We acknowledge that the Directors will provide the report to the Commerce Commission in accordance with clause 2.8.1(1)(a) of the Determination.

The report has been prepared in accordance with the scope and terms of our letter of engagement with the Company dated 11 June 2014. The terms and conditions are attached and form part of this report and are applicable to the Commerce Commission. Our report should not be used for any other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility for any reliance on this report to anyone other than the Directors, or for any purpose other than that for which it was prepared.

Inherent Limitations

Because of the inherent limitations in evidence gathering procedures, it is possible that fraud, error or non-compliance may occur and not be detected. As the procedures performed for this engagement are not performed continuously throughout the year and the procedures performed in respect of the Company's compliance with the Determination are undertaken on a test basis, our engagement cannot be relied on to detect all instances where the Company may not have complied with the Determination. Our opinion has been formed on the above basis.

Independence

Other than in our capacities as auditors, tax advisors and providers of other assurance, due diligence, regulatory and treasury advisory services we have no other relationship, or interests in, Horizon Energy Distribution Limited. These services have not impaired our independence as auditors of the Company.

Basis for Qualified Opinion on Schedules 10(i) to 10(iv)

As described in Box 14 of Schedule 14, there are inherent limitations in ability of the Company to collect and record the network reliability information required to be disclosed in Schedules 10(i) to 10(iv). Consequently there is no independent evidence available to support the completeness and accuracy of recorded faults and limited control over the completeness and accuracy of interconnection point ('ICP') data representing individual customer connections to the network included in the SAIDI and SAIFI outage statistics throughout the year.

There are no practical audit procedures to determine the effect of these limitations in independent evidence and controls. As a result, we are unable to form an opinion as to whether the amounts set out in the SAIDI and SAIFI outage statistics in Schedules 10(i) to 10(iv), of which the faults and ICP data are integral elements, are complete and accurate. In these respects alone we have not obtained all the information and explanations that we have required.

Qualified Opinion

In our opinion, except for the matters described in the Basis of Qualified Opinion paragraph above:

- As far as appears from our examination, proper records have been kept by the Company to enable the complete and accurate compilation of the Schedules;
- The information used in the preparation of the Schedules has been properly extracted from the Company's accounting and other records and has been sourced where appropriate, from the Company's financial and non-financial systems; and
- The Company has complied, in all material respects, with the Determination in preparing the Schedules.

PricewaterhouseCoopers

Chartered Accountants
6 August 2014

Auckland, New Zealand

Certification for Year-end Disclosures

Clause 2.9.2 of section 2.9

We, JOHN MCDONALD and ROBERT TAIT, being Directors of HORIOZN ENERGY DISTRIBUTION LIMITED certify that, having made all reasonable enquiry, to the best of our knowledge -

a) the information prepared for the purposes of clauses 2.3.1 and 2.3.2; and clauses 2.4.21 and 2.4.22; clauses 2.5.1 and 2.5.2; and clauses 2.7.1 and 2.7.2 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and

b) the historical information used in the preparation of Reports 8, 9a, 9b, 9c, 9d, 9e, and 10 has been properly extracted from the HORIZON ENERGY DISTRIBUTION LIMITED's accounting and other records sourced from its financial and non-financial systems, and that sufficient records have been retained, except for network reliability data disclosed in Report 10 which has been extracted from the company's outage database records. HORIZON ENERGY DISTRIBUTION LIMITED is reliant on third parties to notify it of outages. Control over ICP data is also limited. Consequently there is an inherent limitation in the company's ability to maintain outage records sufficient to ensure complete and accurate disclosure of network reliability statistics. In addition, while historical records have been maintained, requirements under the Electricity Distribution Information Disclosure Determination 2012 specific to clauses 2.5.1(2)(a) and 2.5.1(2)(b) could not have been previously foreseen to have been required and therefore information obtained from the Geospatial Information Systems will not be wholly sufficient for the purposes of Electricity Distribution Information Disclosure Determination 2012; and

c) the forecasts in Reports 11a, 11b, 12a, 12b, 12c, 12d, and 14a are based on objective and reasonable assumptions which both align with HORIZON ENERGY DISTRIBUTION LIMITED's corporate vision and strategy and are documented in retained records.

Dated 31 day of July 2014

.....
JOHN MCDONALD

.....
ROBERT TAIT