Gas Information Disclosure 2016

10 FEBRUARY 2017

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1. Introduction

This disclosure of information is submitted by Powerco Limited ("Powerco") pursuant to subpart 9 of Part 4 of the Commerce Act 1986 and in accordance with the Commerce Commission's Gas Distribution Information Disclosure Determination 2012 ("IDD") and all its subsequent amendments including the 2015 information disclosure amendments.

Part 4 of the Commerce Act 1986 ("the Act") provides a regulatory regime for gas pipeline services and sets out the requirements of information disclosure regulation. The purpose of the information disclosure regulation is to ensure that sufficient information is readily available to enable interested persons to assess whether the purpose of Part 4 of the Act is being met. The purpose of Part 4 is to promote the long-term benefit of consumers by promoting outcomes that are consistent with those produced in competitive markets.

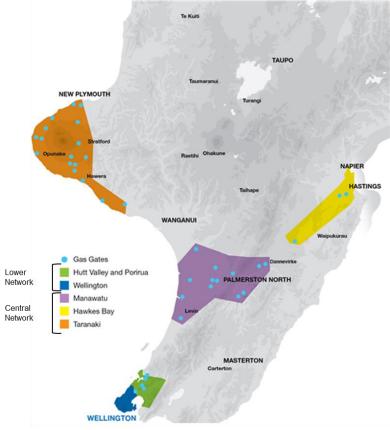
For the purpose of regulatory compliance, Powerco is a provider of "gas pipeline services", as defined by section 55A of the Act, and is required to comply with the requirements of Part 4 of the Act.

Schedule	Information provided
1	Analytical ratios
2	Return on investment
3	Regulatory profit
4	Regulatory asset base (rolled forward)
5a	Regulatory tax allowance
5b	Related party transactions
5c	Term credit spread differential
5d	Report on cost allocation
5e	Report on asset allocation
6a	Capital expenditure
6b	Operational expenditure
7	Actual capital and operation expenditure compared to forecast
8	Billed quantities and line charge revenues
9a	Asset register
9b	Asset age profile
9c	Pipeline data
9d	Network demand
10a	Network reliability and interruptions
10b	Network integrity and customer service

The IDD requires disclosure of the following information for the 2016 disclosure year:

The IDD requires that network and billed quantity information be provided separately for each subnetwork of a supplier's network. Powerco has two sub-networks in the North Island; the Central Network and Lower Network. These sub-networks are shown in Map 1. The following schedules are provided for Powerco Limited, Powerco's Central Network and Powerco's Lower Network:

- Schedule 8 Billed quantities and line charge revenue
- Schedule 9a Asset register
- Schedule 9b Asset age profile
- Schedule 9c Pipeline data
- Schedule 9d Network demand
- Schedule 10a Network reliability and interruptions
- Schedule 10b
 Network integrity and customer service



Map 1: Powerco's sub-networks

Schedules 14 and 15 provide mandatory and voluntary notes to accompany the schedules relating to the current disclosure year.

Directors' certification of the 2016 information disclosure is provided in section 23 at the end of this document.

2. Schedule 1: Analytical Ratios

				Company Name		erco Limited
				For Year Ended	30 Sep	otember 2016
	HEDULE 1: ANALYTICAL RATIOS					
r	schedule calculates expenditure, revenue and service ratios from the information disclosed. The discl merce Commission will publish a summary and analysis of information disclosed in accordance with imation disclosed under the other requirements of the determination. information is part of audited disclosure information (as defined in section 1.4 of the ID determination)	the ID determination.	This will include inf	ormation disclosed i	n accordance with this a	
	1(i): Expenditure Metrics					
2		Expenditure per TJ energy delivered to ICPs (\$/TJ)	Expenditure per average no. of ICPs (\$/ICP)	Ratio of expenditure to maximum monthly load (\$ per GJ/month)	Expenditure per km of pipeline for supply (\$/km)	
,	Operational expenditure	1,924	155	16	2,760	
,	Network	618	50	5	886	
	Non-network	1,307	105	11	1,874	
2	Expenditure on assets Network	1,510 1,367	122 110	13	2,166 1,961	
	Non-network	1,367	110	11	205	
		145			200	
ľ	1(ii): Revenue Metrics					
		Revenue per TJ				
		energy delivered to	Revenue per			
		ICPs (\$/TJ)	average no. of ICPs (\$/ICP)			
	Total line charge revenue	5,996	483			
	Standard consumer line charge revenue	10,147	432			
	Non-standard consumer line charge revenue	1,350	23,626			
	1(iii): Service Intensity Measures					
	I(III). Service Intensity Measures					
	Demand density	172	Maximum monthly l	oad (GJ per month) p	er system lenath	
	Volume density	1		vered per km of syster		
	Connection point density	18	Average number of			
	Energy intensity	81	Total GJ delivered to	ICPs per average nur	nber of ICPs in disclosure	year
	1(iv): Composition of Revenue Requirement					
	The semposition of neveral nequirement	(\$000)	% of revenue			
	Operational expenditure	16,236	32.10%			
	Pass-through and recoverable costs excluding financial incentives and wash-ups	2,038	4.03%			
1	Total depreciation	9,959	19.69%			
	Total revaluations	1,445	2.86%			
	Regulatory tax allowance	5,404	10.68%			
	Regulatory profit/(loss) including financial incentives and wash-ups	18,394	36.36%			
	Total regulatory income	50,585				
	1(v): Reliability					
£.	Interruption rate	15.61	Interruptions per 10	0km of system length		

3. Schedule 2: Return on Investment

		Company Name	Po	werco Limited	
		For Year Ended	30 5	September 201	6
This s their in 2(ii GDBs	IEDULE 2: REPORT ON RETURN ON INVESTMENT chedule requires information on the Return on Investment (R01) for the GDB relative to the Co ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they ele i). must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Note information is part of audited disclosure information (as defined in section 1.4 of the ID deter	mmerce Commission's estimates c ct to. If a GDB makes this election rs).	, information supporti	ng this calculation	must be provided
			ussulance report req		
sch ref					
7 8	2(i): Return on Investment	for year ended	CY-2 30 Sep 14	CY-1 30 Sep 15	Current Year CY 30 Sep 16
9	ROI – comparable to a post tax WACC	-	%	%	%
10	Reflecting all revenue earned	-	6.14%	5.53%	5.13%
11 12	Excluding revenue earned from financial incentives Excluding revenue earned from financial incentives and wash-ups	_	6.14% 6.14%	5.53% 5.53%	5.13% 5.13%
13	Excluding revenue earned non mancial incentives and wash-ups	L	0.1476	5.55%	5.15%
14	Mid-point estimate of post tax WACC	Г	6.80%	6.66%	5.69%
15	25th percentile estimate		5.99%	5.85%	4.88%
16	75th percentile estimate		7.61%	7.47%	6.50%
17					
18					
19	ROI – comparable to a vanilla WACC	_	I		
20	Reflecting all revenue earned	_	6.93%	6.28%	5.71%
21	Excluding revenue earned from financial incentives	_	6.93%	6.28%	5.71%
22	Excluding revenue earned from financial incentives and wash-ups	L	6.93%	6.28%	5.71%
23 24	WACC rate used to set regulatory price path		7.44%	7.44%	7.44%
24	where the used to set regulatory price path	L	7.4470	7.4476	7.4470
26	Mid-point estimate of vanilla WACC	F	7.58%	7.41%	6.26%
27	25th percentile estimate		6.77%	6.60%	5.45%
28	75th percentile estimate		8.39%	8.22%	7.07%
29				(\$000)	
30	2(ii): Information Supporting the ROI				
31	Total approved to DAD uplus	Г	248 205		
32 33	Total opening RAB value plus Opening deferred tax		348,395 (22,452)		
34	Opening RIV		(, ·•-)	325,943	
35					
36	Line charge revenue			50,593	
37		_			
38	Expenses cash outflow		18,274		
39	plus Assets commissioned		12,910		
40	less Asset disposals		376		
41	plus Tax payments	_	2,643		
42	less Other regulated income		(8)	22.450	
43 44	Mid-year net cash flows			33,459	
44 45	Term credit spread differential allowance				
45					
47	Total closing RAB value		351,954		
48	less Adjustment resulting from asset allocation		(461)		
49	less Lost and found assets adjustment		-		
50	plus Closing deferred tax		(25,212)		
51	Closing RIV			327,203	
52					
53	ROI – comparable to a vanilla WACC				5.71%
54				-	
55	Leverage (%)				44%
	Cost of debt assumption (%)				4.67%
56					
57	Corporate tax rate (%)				28%
57 58	Corporate tax rate (%)			[r	
57					28% 5.13%

61	2(iii): Information Supporting the	Monthly ROI						
62								
63	Opening RIV							N/A
64 65					(\$000)			
66		Line charge revenue		Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
67	Month 1							-
68	Month 2							-
69	Month 3							-
70	Month 4							-
71	Month 5							-
72	Month 6							-
73	Month 7							-
74	Month 8							-
75	Month 9							-
76	Month 10							
77 78	Month 11 Month 12							
78 79	Total				_		_	
80	local				-		-	
81	Tax Payments							N/A
82	Tux i dynchis							19/5
83	Term credit spread differential allow	ance						N/A
84								· · · · ·
85	Closing RIV							N/A
86								
87								
88	Monthly ROI – comparable to a vanilla	a WACC						N/A
89								
90	Monthly ROI – comparable to a post t	tax WACC						N/A
91								
92	2(iv): Year-End ROI Rates for Con	nparison Purpose	S					
93								
94	Year-end ROI – comparable to a vanil	la WACC						5.53%
95 06	Y							1.00%
96 07	Year-end ROI – comparable to a post	tax wACC						4.96%
97 98	* these year-end ROI values are compara	hle to the ROI reported in	nre 20	112 disclosures by GDR	and do not represent	the Commission's cur	rent view on ROI	
98 99			prc 20	12 disclosures by GDDs	und do not represent		chi view on non.	
99 100	2(v): Financial Incentives and Wa	sh-Ups						
101	. ,							
102	Net recoverable costs allowed under	incremental rolling ince	ntive s	cheme			-	
103	Other financial incentives						-	
104	Financial incentives							-
105								
106	Impact of financial incentives on ROI							-
107								
108	Input methodology claw-back						-	
109	Recoverable customised price-qualit	y path costs					-	
110	Other wash-ups						-	
111	Wash-up costs							-
112	Impact of wash up sorts on POIs							
113	Impact of wash-up costs on ROIs							

A monthly ROI must only be calculated if during the first three months or last three months of the 2016 disclosure year, the value of assets commissioned by Powerco had exceeded 10% of the total opening regulatory asset base values. These criteria are not met and Powerco has elected to report the ROI for the full disclosure year only.

4. Schedule 3: Regulatory Profit

	Company Name	Powerco Limited
	For Year Ended	30 September 2016
	HEDULE 3: REPORT ON REGULATORY PROFIT	
	schedule requires information on the calculation of regulatory profit for the GDB for the disclosure year. GDBs must complete all sections r regulatory profit in Schedule 14 (Mandatory Explanatory Notes).	and must provide explanatory comment on
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	e report required by section 2.8.
sch re	ſ	
7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	50,593
10 11	plus Gains / (losses) on asset disposals plus Other regulated income (other than gains / (losses) on asset disposals)	(376) 367
12		
13	Total regulatory income	50,585
14	Expenses	
15 16	less Operational expenditure	16,236
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	2,038
18 19	Operating surplus (/doficit)	32,311
20	Operating surplus / (deficit)	52,511
21	less Total depreciation	9,959
22	der Tetel er elveline	1.445
23 24	plus Total revaluations	1,445
25	Regulatory profit / (loss) before tax	23,797
26 27	less Term credit spread differential allowance	[]
27	less Term credit spread differential allowance	
29	less Regulatory tax allowance	5,404
30 31	Regulatory profit/(loss) including financial incentives and wash-ups	18,394
32	Regulatory pronty (ross) including inductor incentives and wash-ups	10,554
33	3(ii): Pass-through and recoverable costs excluding financial incentives and wash-ups	(\$000)
34 35	Pasts through costs	1,519
36	Rates Commerce Act levies	462
37	Industry Levies	56
38 39	CPP specified pass through costs Recoverable costs excluding financial incentives and wash-ups	
40	Other recoverable costs excluding financial incentives and wash-ups	-
41 42	Pass-through and recoverable costs excluding financial incentives and wash-ups	2,038
42		
44	3(iii): Incremental Rolling Incentive Scheme	(\$000)
45 46		CY-1 CY 30 Sep 15 30 Sep 16
40	Allowed controllable opex	30 Sep 15 30 Sep 16
48	Actual controllable opex	
49 50	Incremental change in year	
51		
		Previous years' incremental change
52		Previous years' adjusted for incremental change inflation
53	CY-5 30 Sep 11	
54	CY-4 30 Sep 12	
55 56	CY-3 30 Sep 13 CY-2 30 Sep 14	
57	CY-1 30 Sep 15	
58	Net incremental rolling incentive scheme	
59 60	Net recoverable costs allowed under incremental rolling incentive scheme	
61		
62 63	3(iv): Merger and Acquisition Expenditure	(\$000)
64	Merger and acquisition expenditure	(\$000)
65		isclosures in accordance with section 3.7 in
66	Provide commentary on the benefits of merger and acquisition expenditure to the gas distribution business, including required d Schedule 14 (Mandatory Explanatory Notes)	isclosures in accordance with section 2.7, in
67		(\$000)
68	3(v): Other Disclosures	
69		(\$000)
70	Self-insurance allowance	

5. Schedule 4: Value of Regulatory Asset Base

SC	HEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)			mpany Name r Year Ended		werco Limited eptember 201	
This of th	schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This inform eir RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section						
2.8. sch ref							
7 8 9	4(i): Regulatory Asset Base Value (Rolled Forward) for year of	ended 3	RAB 30 Sep 12 (\$000)	RAB 30 Sep 13 (\$000)	RAB 30 Sep 14 (\$000)	RAB 30 Sep 15 (\$000)	RAB 30 Sep 16 (\$000)
10	Total opening RAB value		331,587	337,842	339,835	340,539	348,395
11 12	less Total depreciation		8,669	9,077	9,454	9,458	9,959
13 14	plus Total revaluations		2,568	4,614	3,435	1,417	1,445
15 16	plus Assets commissioned		12,450	6,633	6,931	16,706	12,910
17 18	less Asset disposals		65	135	33	309	376
19 20	plus Lost and found assets adjustment		_	-	-	-	
21 22			(29)	(43)	(175)	(500)	(461)
23	Plus Adjustment resulting from asset allocation						
24 25	Total dosing RAB value	L	337,842	339,835	340,539	348,395	351,954
26	4(ii): Unallocated Regulatory Asset Base						
26 27	4(I). Unanocated Regulatory Asset Dase			Unallocate (\$000)		RAE (\$000)	(\$000)
28 29	Total opening RAB value			(3000)	(\$000) 389,140	(3000)	348,395
30 31	less Total depreciation			Γ	11,918	Γ	9,959
32 33	plus Total revaluations			C	1,614	E	1,445
34 35	plus Assets commissioned (other than below)		Г	17,117	 [12,910	
36	Assets acquired from a regulated supplier			-	F	-	
37 38	Assets acquired from a related party Assets commissioned		L	-	17,117	-	12,910
39 40	less Asset disposals (other than below)		Г	385	Г	376	
41	Asset disposals to a regulated supplier			-		-	
42 43	Asset disposals to a related party Asset disposals		L	-	385	-	376
44 45	plus Lost and found assets adjustment			Г		Г	
46 47	plus Adjustment resulting from asset allocation					Г	(461)
48				Г	205 5 6 0		
49	Total dosing RAB value * The 'unallocated RAB' is the total value of those assets used wholly or partially to provide gas distribution services without any allowant	ice being mi	ade for the allo	L cation of costs to s	395,568 ervices provided b	y the supplier that	351,954 are not gas
50 51	distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works u			·	,		,
52	4(iii): Calculation of Revaluation Rate and Revaluation of Assets						
53 54	CPI4					Г	1,209
54 55	CPI ₄ CPI ₄					-	1,209
56 57	Revaluation rate (%)					L	0.42%
58				Unallocate		RAE	
59 60	Total opening RAB value		Γ	(\$000) 389,140	(\$000)	(\$000) 348,395	(\$000)
61 62	less Opening value of fully depreciated, disposed and lost assets			427		415	
63	Total opening RAB value subject to revaluation		[388,712		347,979	
64 65	Total revaluations			L	1,614	L	1,445
66	4(iv): Roll Forward of Works Under Construction						
67				Unallocated w constru		Allocated wo construe	
68	Works under construction—preceding disclosure year		-		6,457		4,004
69 70	plus Capital expenditure less Assets commissioned			18,070 17,117	-	12,604 12,910	
71 72	plus Adjustment resulting from asset allocation Works under construction - current disclosure year			, 	7,410	(10)	3,687
73				L	7,410	L	
74	Highest rate of capitalised finance applied						6.50%

POWERCO LIMITED

76 77	4(v): Regulatory Depreciation							Unallocated RAB		RAB					
78								(\$000)	(\$000)	(\$000)	(\$000)				
79	Depreciation - standard							10,215		9,654					
80	Depreciation - no standard life assets							1,703		305					
81	Depreciation - modified life assets							-							
82	Depreciation - alternative depreciation in acc	ordance with CPP						-		-	r				
83	Total depreciation							L	11,918		9,959				
84															
							(\$000 ur	nless otherwise sp	ecified)						
85	4(vi): Disclosure of Changes to Depreciation Profiles														
										Closing RAB	Closing RAB				
									Depreciation	value under	value under				
86	Asset or assets with changes to depreciation				Baacon	ior non standar	d depreciation (t	avt antru)	charge for the period (RAB)	'non-standard' depreciation	'standard' depreciation				
87	Asset of assets with thanges to depredation				RedSUIT	or non-stanuar		ext entry	period (KAB)	depreciation	depreciation				
88															
89															
90															
91															
92															
93															
94															
95	* include additional rows if needed														
96	4(vii): Disclosure by Asset Category														
97						(\$000 unless o	therwise specifi	ed)							
		Intermediate pressure main	Medium pressure main	Low pressure					Other network	Non-network					
98		pipelines	pipelines	main pipelines	Service pipe	Stations	Line valve	Special crossings	assets	assets	Total				
99	Total opening RAB value	46,673	168,773	4,541	94,940	5,457	2,377	368	12,559	12,708	348,395				
100	less Total depreciation	1,411	4,548	109	2,475	364	59	7	466	520	9,959				
101	plus Total revaluations	197	711	19	400	24	11	2	29	53	1,445				
102	plus Assets commissioned	1,490	4,975	134	2,589	1,185	439	75	1,240	784	12,910				
103	less Asset disposals	33	119	3	34	151	15	-	18	3	376				
104	plus Lost and found assets adjustment	-		-	-	-		-	-	-	-				
105	plus Adjustment resulting from asset allocation	-	2,552	-	-	-	-	-	- /F_F0.43	(461)	(461)				
106 107	plus Asset category transfers Total closing RAB value	764 47.680	2,552	69 4,650	1,328 96,747	608 6,759	225	38 475	(5,584) 7,760	12,562	(0) 351,954				
107	Total COSING FMD Value	47,080	1/2,343	4,050	50,747	0,759	2,978	475	7,760	12,302	551,554				
108	Asset Life														
110	Weighted average remaining asset life	34	38	42	39	16	44	55	15	21	(years)				
111	Weighted average expected total asset life	67	60		60	35	62	70	20	27	(years)				

6. Schedule 5a: Regulatory Tax Allowance

		а. н. Г	Provide the first of
		Company Name	Powerco Limited
		For Year Ended	30 September 2016
		a: REPORT ON REGULATORY TAX ALLOWANCE	
		res information on the calculation of the regulatory tax allowance.This information is used to calculate regulator explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory N	
		part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the	
sch ref			
scritej			
7	5a(i): R	egulatory Tax Allowance	(\$000)
8		Regulatory profit / (loss) before tax	23,797
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	190 *
12		Amortisation of initial differences in asset values	2,304
13		Amortisation of revaluations	999
14			3,493
15			
16	less	Total revaluations	1,445
17 18		Income included in regulatory profit / (loss) before tax but not taxable Expenditure or loss deductible but not in regulatory profit / (loss) before tax	*
10		Notional deductible interest	6,546
20		Notional deductible interest	7,991
21			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
22		Regulatory taxable income	19,298
23			
24	less	Utilised tax losses	-
25		Regulatory net taxable income	19,298
26			
27		Corporate tax rate (%)	28%
28		Regulatory tax allowance	5,404
29	* 14/	and the bar was defined to Calculate 14	
30	* WORKI	ngs to be provided in Schedule 14	
31			
32	5a(ii): D	isclosure of Permanent Differences	
33	. ,	In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Sche	dule 5a(i).
34	5a(iii):	Amortisation of Initial Difference in Asset Values	(\$000)
35			
36		Opening unamortised initial differences in asset values	78,337
37	less	Amortisation of initial differences in asset values	2,304
38	plus	Adjustment for unamortised initial differences in assets acquired	-
39 40	less	Adjustment for unamortised initial differences in assets disposed	109
40 41		Closing unamortised initial differences in asset values	75,924
41 42		Opening weighted average remaining useful life of relevant assets (years)	34
43		opening neighter and a period in a province and a set (fears)	

44	5a(iv):	Amortisation of Revaluations	(\$000)
45			
46		Opening sum of RAB values without revaluations	325,248
47			
48		Adjusted depreciation	8,960
49		Total depreciation	9,959
50 51		Amortisation of revaluations	999
	- () -		
52	5a(v): H	econciliation of Tax Losses	(\$000)
53			
54		Opening tax losses	
55 56	plus less	Current period tax losses Utilised tax losses	
57		Closing tax losses	
5.			
58	5a(vi):	Calculation of Deferred Tax Balance	(\$000)
59			
60		Opening deferred tax	(22,452)
61			
62	plus	Tax effect of adjusted depreciation	2,509
63	,		
64	less	Tax effect of tax depreciation	4,821
65 66	plus	Tax effect of other temporary differences*	(24)
67	plus		(2-4)
68	less	Tax effect of amortisation of initial differences in asset values	645
69			
70	plus	Deferred tax balance relating to assets acquired in the disclosure year	-
71			
72	less	Deferred tax balance relating to assets disposed in the disclosure year	(44)
73	,		
74 75	plus	Deferred tax cost allocation adjustment	177
76		Closing deferred tax	(25,212)
77			<u></u>
78	5a(vii):	Disclosure of Temporary Differences	
70		to Calendaria 14, Dev C. annuide descriptions and conditions of theme arounded in the activity of advances in Calendaria Cale	(7
79 80		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).
80			
81	5a(viii)	Regulatory Tax Asset Base Roll-Forward	
82			(\$000)
83		Opening sum of regulatory tax asset values	168,254
84	less	Tax depreciation	17,218
85	plus	Regulatory tax asset value of assets commissioned	12,910
86	less	Regulatory tax asset value of asset disposals	219
87 88	plus plus	Lost and found assets adjustment Adjustments resulting from asset allocation	
88 89	pius plus	Other adjustments to the RAB tax value	-
90		Closing sum of regulatory tax asset values	163,897

7. Schedule 5b: Related Party Transactions

			Company Name	i i	Powerco Limited
			For Year Ended	30) September 2016
sc	HEDULE 5b: REPORT ON RELATED PAR	TY TRANSACTIONS			•
	schedule provides information on the valuation of related p		e with section 2.3.6 and 2.3.7 of the ID	determination.	
	information is part of audited disclosure information (as d				ction 2.8.
sch re	،				
7	5b(i): Summary—Related Party Transa	ctions		(\$000)	
8	Total regulatory income				
9	Operational expenditure			-	
10	Capital expenditure			-	
11	Market value of asset disposals			-	
12	Other related party transactions			-	
	Eh/ii), Entities Involved in Belated Day				
13	5b(ii): Entities Involved in Related Part	ly mansactions			
14	Name of related party			Related party relationsh	ip
15					
16					
17 18		—			
19					
20	* include additional rows if needed				
20	* include additional rows if needed				
20 21	* include additional rows if needed 5b(iii): Related Party Transactions				
		Eclated parts		Value of	
21	5b(iii): Related Party Transactions	Related party transaction type	Description of transaction	transaction	Basis for determining value
		Related party transaction type [Select one]	Description of transaction		Basis for determining value [Select one]
21 22	5b(iii): Related Party Transactions	transaction type	Description of transaction	transaction	
21 22 23	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26	5b(iii): Related Party Transactions	transaction type [Select one] [Select one] [Select one] [Select one]	Description of transaction	transaction	[Selectione] [Selectione] [Selectione] [Selectione]
21 22 23 24 25 26 27	5b(iii): Related Party Transactions	transaction type [Select one] [Select one] [Select one] [Select one] [Select one] [Select one]	Description of transaction	transaction	[Select one] [Select one] [Select one] [Select one] [Select one]
21 22 23 24 25 26 27 28	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one] [Select one] [Select one] [Select one] [Select one] [Select one]
21 22 23 24 25 26 27 28 29	5b(iii): Related Party Transactions	transaction type Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30 31	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30 31 32	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30 31 32 33	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30 31 32 33 33	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30 31 32 33	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	5b(iii): Related Party Transactions	transaction type [Select one]	Description of transaction	transaction	[Select one]
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	5b(iii): Related Party Transactions	transaction type [Select one] [Select one]	Description of transaction	transaction	[Select one] [Select one]

8. Schedule 5c: Term Credit Spread Differential

								Company Name	F	owerco Limited	
								For Year Ended	30	September 201	L 6
SC	HEDULE	5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIA	L ALLOWANG	CE .							
This	schedule is o	nly to be completed if, as at the date of the most recently published financial state	ements, the weighted	average original ten	or of the debt portfo	lio (both qualifying deb	t and non-qualifying	debt) is greater than	five years. This infor	mation is part of aud	ited disclosure
info	mation (as d	efined in section 1.4 of the ID determination), and so is subject to the assurance r	eport required by sec	tion 2.8.							
sch rej											
7											
8	5c(i): C	ualifying Debt (may be Commission only)									
9											
								Book value at date		Cost of executing	
					Original tenor (in		Book value at issue	of financial	Term Credit Spread	an interest rate	Debt issue cost
10		Issuing party	Issue date	Pricing date	years)	Coupon rate (%)	date (NZD)	statements (NZD)	Difference	swap	readjustment
11		2005 Guaranteed Bonds - 2	28/09/2005	26/09/2005	12.0	6.74%	50,000,000	49,859,540	75,000	9,587	(102,083)
12		USPP (2003) US\$65m/NZ\$109.3m	25/11/2003	24/09/2003		BKBM+0.88%	109,298,806	96,734,335	163,948	-	(235,413)
13		USPP (2011) US\$72m/NZ\$91.4m	7/06/2011	7/06/2011		BKBM+1.945%	91,370,558	109,482,635	137,056	-	(142,132)
14		USPP (2011) US\$90m/NZ\$114.2m	7/06/2011	7/06/2011		BKBM+1.835%	114,213,198	139,805,945	171,320	-	(233,185)
		USPP (2011) US\$83m/NZ\$105.3m	7/06/2011	7/06/2011		BKBM+1.980%	105,329,949	130,721,984	157,995	-	(245,770)
		2011 Wholesale Bond - Fixed rate	20/12/2011	20/12/2011	7.0	6.31%	65,000,000	65,695,939	97,500	13,127	(65,000)
		2011 Wholesale Bond - Floating rate	20/12/2011	20/12/2011		BKBM + 2.60%	35,000,000	35,374,736	52,500	7,068	(35,000)
		USPP(2013) US\$25m/NZ\$30.4m USPP(2013) US\$80m/NZ\$97.4m	23/01/2013 23/01/2013	1/11/2012 1/11/2012		BKBM + 2.20% BKBM + 2.21%	30,439,547 97,406,551	35,697,700 112,313,228	45,659 146,110	-	(62,147) (227,282)
		NZD USPP(2014) NZ\$135m	15/10/2014	3/07/2014	12.5	6.62%	135,000,000	136,073,034	202,500	- 20,411	(283,500)
15		2015 Wholesale Bond - Fixed rate	28/09/2015	16/09/2015	7.0	4.76%	150,000,000	149,696,075	225,000	22,454	(150,000)
16		* include additional rows if needed	20/03/2013	10/03/2013	7.0	4.70%	150,000,000	1,061,455,151	1,474,588	72,648	(1,781,513)
17								1,001,100,101	1,17 1,500	, 2,010	(1), 01,010
18	5c(ii)·	Attribution of Term Credit Spread Differential									
19	56(11)17										
20	G	oss term credit spread differential]	(234,277)						
21	С.			L	(201)2777						
22		Total book value of interest bearing debt]	1,267,763,245							
23		Leverage		44%							
24		Average opening and closing RAB values		350,174,744							
25	At	tribution Rate (%)			12%						
26											
27	Т	erm credit spread differential allowance			-						

9. Schedule 5d: Cost Allocations

			Company Name For Year Ended		Powerco Limited) September 201	
SCL	HEDULE 5d: REPORT ON COST ALLOCATIONS		FOI TEUI EIIUEU	50	September 201	
	Schedule provides information on the allocation of operational costs. GDBs n	ust provide evolapatory comment o	n their cost allocation	in Schedule 14 (Mand	atory Explanatory No	tes) including on
the in	mpact of any reclassifications. information is part of audited disclosure information (as defined in section 1.					nes), meruunig on
ich ref 7	5d(i): Operating Cost Allocations					
8			Value alloca	ted (\$000s)		
9		Arm's length deduction	Gas distribution services	Non-gas distribution services	Total	OVABAA allocation increase (\$000s)
10	Service interruptions, incidents and emergencies	deduction	Services	Services	Total	11012832 (30003)
11	Directly attributable		367			
12	Not directly attributable			-	-	-
13	Total attributable to regulated service		367			
14	Routine and corrective maintenance and inspection					
15	Directly attributable		2,304			
16 17	Not directly attributable Total attributable to regulated service		2,304	-	-	
18	Asset replacement and renewal		2,304			
19	Directly attributable		2,540			
20	Not directly attributable			-	_	-
21	Total attributable to regulated service		2,540			
22	System operations and network support					
23	Directly attributable		4,573			
24 25	Not directly attributable Total attributable to regulated service		- 151 4,724	707	858	<u> </u>
25 26	Business support		4,724			
27	Directly attributable		957			
28	Not directly attributable		- 5,344	24,654	29,998	-
29	Total attributable to regulated service		6,301			
30	On emotion and a diseastly attails at all			I		
31 32	Operating costs directly attributable Operating costs not directly attributable		- 5,495	25,361	30,856	
33	Operating costs not unectly attributable		16,236	25,501	50,850	
34						
25						
35	5d(ii): Other Cost Allocations		Value alloca	ted (\$000s)		
35	Sa(II): Other Cost Allocations Pass through and recoverable costs	Arm's length deduction		ted (\$000s) Non-gas distribution services	Total	OVABAA allocation increase (\$000s)
			Gas distribution	Non-gas distribution	Total	
36	Pass through and recoverable costs		Gas distribution	Non-gas distribution	Total	
36 37 38 39	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable		Gas distribution services 1,982 - 56	Non-gas distribution	Total	
36 37 38 39 40	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service		Gas distribution services	Non-gas distribution services		
36 37 38 39 40 41	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs		Gas distribution services 1,982 - 56	Non-gas distribution services		
36 37 38 39 40 41 42	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable		Gas distribution services 1,982 - 56	Non-gas distribution services		
36 37 38 39 40 41	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs		Gas distribution services 1,982 - 56	Non-gas distribution services		
36 37 38 39 40 41 42 43 44 45	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable		Gas distribution services 1,982 - 56	Non-gas distribution services	222	
36 37 38 39 40 41 42 43 44	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service		Gas distribution services 1,982 - 56	Non-gas distribution services	222	
36 37 38 39 40 41 42 43 44 45 46	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service 5d(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category		Gas distribution services	Non-gas distribution services	222	
36 37 38 39 40 41 42 43 44 45 46 45 46 47 48 49	Pass through and recoverable costs Pass through costs Directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Stal (iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items		Gas distribution services 1,982 2,038 2,038 0 0 0 0 riginal allocation New allocation	Non-gas distribution services	222	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service 5d(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category		Gas distribution services	Non-gas distribution services	222	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Not directly attributable Total attributable to regulated service Statistical attributable Total attributable to regulated service Statistical attributable Total attributable to regulated service Statistical attributable Change in cost Allocations* † Cost category Original allocator or line items New allocator or line items		Gas distribution services 1,982 2,038 2,038 0 0 0 0 riginal allocation New allocation	Non-gas distribution services	222	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Pass through and recoverable costs Pass through costs Directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Stal (iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items		Gas distribution services 1,982 2,038 2,038 0 0 0 0 riginal allocation New allocation	Non-gas distribution services 167 (\$0 CY-1	222 - D0) Current Year (CY)	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Directly attributable Total attributable to regulated service Total attributable to regulated service Stal attributable to regulated service Cold(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change		Gas distribution services 1,982 2,038 2,038 0 0 0 0 riginal allocation New allocation	Non-gas distribution services	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 55 55	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Not directly attributable Not directly attributable Statistic directly attributable Total attributable to regulated service Statistic directly attributable Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2		Gas distribution services	Non-gas distribution services 167 (\$0 CY-1	222 - D0) Current Year (CY)	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 55 55 55 55 55 56 57	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Not directly attributable Not directly attributable Total attributable to regulated service Std(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category		Gas distribution services 1,982 56 2,038	Non-gas distribution services	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 55 55	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Not directly attributable Not directly attributable Statistic directly attributable Total attributable to regulated service Statistic directly attributable Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2		Gas distribution services	Non-gas distribution services	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 55 55 55 55 55	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Scd(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items		Gas distribution services	Non-gas distribution services	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55 55 55 55 55 55 55 55 55	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Scd(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items		Gas distribution services	Non-gas distribution services	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 55 56 57 58 59 60 61	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Statistic cost allocation 1 Cost category Original allocator or line items New allocator or line items		Gas distribution services	Non-gas distribution services	222 	
36 37 38 39 40 41 42 43 44 45 46 77 55 56 57 58 59 60 61 62 63 64	Pass through and recoverable costs Pass through costs Directly attributable Tota ttributable to regulated service Brectly attributable Directly attributable		Gas distribution services	Non-gas distribution services 167 (Sou CY-1 (Sou CY-1 (Sou CY-1 (Sou	222 	
36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 52 53 55 56 57 58 59 60 61 62 63 64	Pass through and recoverable costs Pass through costs Directly attributable Total attributable to regulated service Brectly attributable Directly attributable Not directly attributable Not directly attributable Directly attributable Directly attributable Not directly attributable Not directly attributable Not directly attributable Stat attributable to regulated service Stat attributable Original allocator or line items New allocator or line items New allocator or line items Rationale for change Change in cost allocation 3 Change in cost allocation 4 Rationale for change		Gas distribution services	Non-gas distribution services	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 55 55 55 55 55 55 55 55 55 56 57 58 59 60 61 62 63 64 65 66	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Total attributable to regulated service Statistic content of the service Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items New allocator or line items New allocator or line items New allocator or line items Rationale for change Change in cost allocation 3 Cost category Original allocator or line items New allocator or line items Rationale for change		Gas distribution services 1,982 56 2,038 	Non-gas distribution services 167 (Sou CY-1 (Sou CY-1 (Sou CY-1 (Sou	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 55 55 55 55 55 55 55 55 55 55 55 56 60 61 65 66 66 66 66	Pass through and recoverable costs Pass through costs Directly attributable Total attributable to regulated service Brectly attributable Directly attributable Not directly attributable Not directly attributable Directly attributable Directly attributable Not directly attributable Not directly attributable Not directly attributable Stat attributable to regulated service Stat attributable Original allocator or line items New allocator or line items New allocator or line items Rationale for change Change in cost allocation 3 Change in cost allocation 4 Rationale for change		Gas distribution services	Non-gas distribution services 167 (Sou CY-1 (Sou CY-1 (Sou CY-1 (Sou	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 55 55 55 55 55 55 55 55 55 55 56 57 58 59 60 61 62 63 64 65 66	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Scd(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items New allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items New allocator or line items Rationale for change Rationale for change Change in cost allocation 3 Cost category Original allocator or line items		Gas distribution services 1,982 56 2,038 Criginal allocation New allocation Difference Original allocation New allocation Difference	Non-gas distribution services 167 (Sou CY-1 (Sou CY-1 (Sou CY-1 (Sou	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55 55 55 55 55 55 55 55 56 60 61 62 63 64 65 66 66 67 68 970	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Scd(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items New allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items New allocator or line items Rationale for change Rationale for change Change in cost allocation 3 Cost category Original allocator or line items		Gas distribution services 1,982 56 2,038 Criginal allocation New allocation Difference Original allocation New allocation Difference	Non-gas distribution services 167 (Sou CY-1 (Sou CY-1 (Sou CY-1 (Sou	222 	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 55 55 55 55 55 55 55 55 55 56 57 58 60 61 2 59 60 61 62 63 64 65 66 66 66 67 68 69	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Not directly attributable Not directly attributable Total attributable to regulated service Statistic cost allocations* f Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items		Gas distribution services 1,982 56 2,038 0 0 0 0 1 0 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Non-gas distribution services	222 200) Current Year (CY) Current Year (CY) 200) Current Year (CY) 200 Current Year (CY) 200 200 200 200 200 200 200 20	increase (\$000s)

10. Schedule 5e: Asset Allocations

		Company Name		Powerco Limited
		For Year Ended	3	0 September 2016
sche nent	DULE 5e: REPORT ON ASSET ALLOCA dule requires information on the allocation of asset valu on their cost allocation in Schedule 14 (Mandatory Expl. e information (as defined in section 1.4 of the ID determi	ues. This information supports the calculation anatory Notes), including on the impact of any	changes in asset allocati	ions. This information is part of audited
5	e(i): Regulated Service Asset Values			
			Value allocated (\$000s)	
			Gas distribution services	
	Main pipe			
	Directly attributable		224,674	
	Not directly attributable		-	
	Total attributable to regulated service		224,674	
	Service pipe Directly attributable		96,747	
	Not directly attributable			
	Total attributable to regulated service		96,747	
	Stations			
	Directly attributable		6,759	
	Not directly attributable		-	
	Total attributable to regulated service		6,759	
	Line valve			
	Directly attributable		2,978	
	Not directly attributable		-	
	Total attributable to regulated service		2,978	
	Special crossings		475	
	Directly attributable Not directly attributable		475	
	Total attributable to regulated service		475	
	Other network assets			
	Directly attributable		7,760	
	Not directly attributable		-	
	Total attributable to regulated service		7,760	
	Non-network assets			
	Directly attributable		3,265	
	Not directly attributable		9,297	
	Total attributable to regulated service		12,562	
	Regulated service asset value directly attributable		342,657	
	Regulated service asset value not directly attribut		9,297	
	Total closing RAB value		351,954	
_				
5	5e(ii): Changes in Asset Allocations* †			
	Change in asset value allocation 1			(\$000) CY-1 Current Year (CY
	Asset category		Original allocation	
	Original allocator or line items		New allocation	
	New allocator or line items		Difference	-
	Rationale for change			
	Rationale for change			
				(\$000)
	Change in asset value allocation 2		Original II II	CY-1 Current Year (C)
	Asset category		Original allocation	
	Original allocator or line items		New allocation Difference	
	New allocator or line items		Billerence	
	Rationale for change			
				(\$000)
	Change in asset value allocation 3			CY-1 Current Year (C)
	Asset category		Original allocation	<u> </u>
	Original allocator or line items		New allocation	
	New allocator or line items		Difference	-
	Rationale for change			

11. Schedule 6a: Capital Expenditure

	Company Name For Year Ended	Powerco Limited 30 September 2016
This s	HEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of wh	
GDBs	iding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory notes to templates).	
sch ref	information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assu	rance report required by section 2.8.
7	6a(i): Expenditure on Assets	(\$000) (\$000)
8	Consumer connection	4,953
9	System growth	687
10 11	Asset replacement and renewal Asset relocations	1,799
12	Reliability, safety and environment:	
13	Quality of supply	1,263
14 15	Legislative and regulatory Other reliability, safety and environment	2,794
16	Total reliability, safety and environment	4,057
17	Expenditure on network assets	11,536
18 19	Expenditure on non-network assets	1,206
20	Expenditure on assets	12,742
21	plus Cost of financing	73
22	less Value of capital contributions	211
23 24	plus Value of vested assets	
25	Capital expenditure	12,604
26	6a(ii): Subcomponents of Expenditure on Assets (where known)	(\$000)
27	Research and development	
28 29	6a(iii): Consumer Connection	(\$000) (\$000)
29 30	Consumer types defined by GDB* Residential/Small Commercial	4,520
31	Commercial	433
32	Industrial	
33 34		
35	* include additional rows if needed	
36 37	Consumer connection expenditure	4,953
38	less Capital contributions funding consumer connection expenditure	90
39 40	Consumer connection less capital contributions	4,864
41	6a(iv): System Growth and Asset Replacement and Renewal	
42		Asset Replacement System Growth and Renewal
43 44	Intermediate pressure	(\$000) (\$000)
45	Main pipe	- 4
46	Service pipe	
47	Stations	- 15
48 49	Line valve Special crossings	- (190)
50	Intermediate pressure -total	- (171)
51	Medium pressure	
52	Main pipe	687 1,807
53 54	Service pipe Stations	
54 55	Line valve	
56	Special crossings	
57	Medium pressure - total	687 1,807
58	Low pressure	
59 60	Main pipe Service pipe	- 25
61	Line valve	
62	Special crossings	
63	Low pressure - total	- 25
64 65	Other network assets	(m)
65 66	Monitoring and control systems Cathodic protection systems	- (5) - 145
67	Other assets (other than above)	- (2)
68	Other network assets - total	- 138
69 70	Suctom growth and accet confacement and consult even diffuse	697 4 700
70 71	System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal	687 <u>1,799</u> 74 -
72	System growth and asset replacement and renewal less capital contributions	614 1,799

73	6a(v): Asset Relocations		
74	Project or programme*	(\$000)	(\$000)
75 76			
77		-	
78		-	
79	* to do a different way if an elect	-	
80	* include additional rows if needed	38	
81 82	All other projects or programmes - asset relocations Asset relocations expenditure	38	38
83	less Capital contributions funding asset relocations	47	50
84	Asset relocations less capital contributions		(9)
	Faluily Quality of Supply		
85 86	6a(vi): Quality of Supply Project or programme*	(\$000)	(\$000)
87	Palmerston North Eastern Reinforcement	358	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
88	Wellington CBD - Phase 2	257	
89	Base Hospital DRS installation	155	
90 91	Wellington CBD Westown Capacity Reinforcement	124	
91 92	* include additional rows if needed	119	
93	All other projects or programmes - quality of supply	250	
94	Quality of supply expenditure		1,263
95	less Capital contributions funding quality of supply		
96 97	Quality of supply less capital contributions	L	1,263
31			
98	6a(vii): Legislative and Regulatory		
99	Project or programme*	(\$000)	(\$000)
100	[Description of material project or programme]		
101 102	[Description of material project or programme] [Description of material project or programme]	<u> </u>	
102	(Description of material project or programme)	-	
104	[Description of material project or programme]	-	
105	* include additional rows if needed		
106 107	All other projects or programmes - legislative and regulatory		
107	Legislative and regulatory expenditure less Capital contributions funding legislative and regulatory	-	
109	Legislative and regulatory less capital contributions		-
110			
111	6a(viii): Other Reliability, Safety and Environment		
112	Project or programme*	(\$000)	(\$000)
113	Hutt River Crossing	1,667	
114	HAB IP Valve Safety Improvement	302	
115	Kings Wharf DRS Safety	194	
116 117	Wellington CP Safety Improvement Curtis St DRS Safety Improvement	160 142	
118	* include additional rows if needed	142	
119	All other projects or programmes - other reliability, safety and environment	329	
120	Other reliability, safety and environment expenditure	·	2,794
121	less Capital contributions funding other reliability, safety and environment Other reliability, safety and environment less capital contributions		2,794
122	סנותר הנוסטוונץ, אורנץ אות בושו טוווובות ובא נסטונו שענוטוא		2,754
123	6a(ix): Non-Network Assets		
124	Routine expenditure		/4
125	Project or programme*	(\$000)	(\$000)
126 127	IT Renewal	217	
128			
129			
130	* include additional cours if peeded		
131 132	* include additional rows if needed All other projects or programmes - routine expenditure	204	
132	Routine expenditure	204	420
134	Atypical expenditure		
134 135	Project or programme*	(\$000)	(\$000)
136	Data Centre	375	
137			
138			
139			
140 141	* include additional rows if needed		
141	All other projects or programmes - atypical expenditure	411	
143	Atypical expenditure		786
144			
145	Expenditure on non-network assets		1,206

12. Schedule 6b: Operational Expenditure

	Company Name	Powerco Limited
	For Year Ended	30 September 2016
	SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR	
	This schedule requires a breakdown of operational expenditure incurred in the current disclosure year. GDBs must provide explanatory com	ment on their operational expenditure in Schedule 14
	(Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renew	
	operational expenditure, and additional information on insurance.	
Γ	This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assura	nce report required by section 2.8.
sc	h ref	
	7 6b(i): Operational Expenditure	(\$000) (\$000)
	8 Service interruptions, incidents and emergencies	367
	9 Routine and corrective maintenance and inspection	2,304
1	0 Asset replacement and renewal	2,540
3	11 Network opex	5,211
1	12 System operations and network support	4,724
1	13 Business support	6,301
1	14 Non-network opex	11,025
	15	
1	16 Operational expenditure	16,236
	6b(ii): Subcomponents of Operational Expenditure (where known)	
	18 Research and development	· · · · · · · · · · · · · · · · · · ·
1	19 Insurance	109

13. Schedule 7: Forecast v Actual Expenditure

	Company Name	Р	owerco Limited	
	For Year Ended	30	September 201	6
SC	HEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDI			
This	schedule compares actual revenue and expenditure to the previous forecasts that were made for th cast revenue and expenditure information from previous disclosures to be inserted.	-	cordingly, this sched	ule requires the
GDB Note	is must provide explanatory comment on the variance between actual and target revenue and foreca es). This information is part of the audited disclosure information (as defined in section 1.4 of the II	D determination), and	so is subject to the a	assurance report
requ	uired by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only nee	ed to be verified back	to previous disclosu	res.
ch ref	f			
8	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
9	Line charge revenue	50,908	50,593	(1%)
		· · · · · ·		
10	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
11	Consumer connection	4,067	4,953	22%
12	System growth	1,778	687	(61%)
13	Asset replacement and renewal	2,167	1,799	(17%)
14	Asset relocations	227	38	(83%)
15	Reliability, safety and environment:			
16	Quality of supply	3,526	1,263	(64%)
17	Legislative and regulatory	-	-	-
18	Other reliability, safety and environment	2,615	2,794	7%
19	Total reliability, safety and environment	6,141	4,057	(34%)
	Expenditure on network assets	14,380	11,536	(20%)
21	Expenditure on non-network assets	2,183	1,206	(45%)
22	Expenditure on assets	16,563	12,742	(23%)
23	7(iii): Operational Expenditure			
24	Service interruptions, incidents and emergencies	377	367	(3%)
25	Routine and corrective maintenance and inspection	2,492	2,304	(8%)
26	Asset replacement and renewal	2,487	2,540	2%
27	Network opex	5,356	5,211	(3%)
28	System operations and network support	3,969	4,724	19%
29	Business support	6,641	6,301	(5%)
30	Non-network opex	10,610	11,025	4%
31	Operational expenditure	15,966	16,236	2%
32	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Research and development	_	-	-
34	7(v): Subcomponents of Operational Expenditure (where known)			
35	Research and development	-	-	-
36	Insurance	127	109	(14%)
27		in determine st		
37	1 From the nominal dollar target revenue for the pricing year disclosed under clause 2.4.3(3) of thi		aution at the best	a of the
38	2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for disclosure year (the second to last disclosure of Schedules 11a and 11b)	r the forecast period st	arting at the beginnin	g of the
,0				

14. Schedule 8: Billed Quantities and Line Charge Revenue

								mpany Name		werco Lin	
								or Year Ended		eptembe	
						I	Network / Sub-N	letwork Name	Po	werco Lin	nited
hedule requ nber of ICPs	ires the bille that are incl	RT ON BILLED QUANTITIES A ad quantities and associated line charge rev luded in each consumer group or price cate	enues for the disclosure yea	r for each consumer gr	oup or price category co	ode used by the GDB in its p	ricing schedules.	Information is also	required on		
- ()							Billed quantities l	by price component			dd extra coli
						Price component	Fixed	Variable		qu	r additional uantities by component necessary
nam	umer group ne or price egory code	Consumer type or types (eg, residential commercial, etc.)	Standard or non- standard consumer group (specify)	Average no. of ICPs in disclosure year	Quantity of gas delivered (TJ)	Unit charging basis (eg, days, GJ, etc.)	Days	GJ			
G06		Residential	Standard	25,590	302		-	302,059			
G11		Residential / Small Commercial	Standard	76,360	2,585		27,947,760	2,585,025			
G12		Commercial	Standard	1,762	418		644,892	418,280			
G14		Commercial	Standard	530	428		193,797	427,586			
G16		Commercial	Standard	286	541		104,493	541,419			
G18		Commercial	Standard	54	182		19,581	181,922			
G30		Commercial	Non-standard	127	455		34,011	454,706			
G40		Industrial	Non-standard	101	3,527		30,744	3,527,419			
=											
Add e	xtra rows for	additional consumer groups or price categor	v codes as necessary								
Add ex	xtra rows for a	additional consumer groups or price categor	codes as necessary Standard consumer totals	104.581	4,456		28,910,523	4,456,291	-		
Add ex	xtra rows for a			104,581	4,456 3,982		28,910,523 64,755	4,456,291 3,982,125	-		

POWERCO LIMITED

GAS INFORMATION DISCLOSURE 2016

								mpany Name		verco Limited
								or Year Ended		•
						٨	letwork / Sub-N	etwork Name	POW	verco Limited
h	edule requires the bill ber of ICPs that are inc	RT ON BILLED QUANTITIES AI ed quantities and associated line charge rever cluded in each consumer group or price catego ge revenues (\$000) by price com	ues for the disclosure year ry code, and the energy del	for each consumer g	oup or price category c	ode used by the GDB in its p	ricing schedules. I	nformation is also	required on	
							Line charge reven	ues (\$000) by price	component	Add extra co
						Price component	Fixed	Variable		for addition charge reven price compor necessa
	Consumer group name or price category code	Consumer type or types (eg, residential, commercial, etc.)	Standard or non- standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Rate (eg, \$ per day, \$ per GJ, etc.)	\$/day	\$/GJ		
	G06	Residential	Standard	\$5,598			-	\$5,598		
	G11	Residential / Small Commercial	Standard	\$30,666			\$16,428	\$14,239		
	G12	Commercial	Standard	\$2,756			\$710	\$2,046		
	G14	Commercial	Standard	\$2,632			\$922	\$1,710		
	G16	Commercial	Standard	\$2,776			\$680	\$2,096		
	G18	Commercial	Standard	\$790			\$208	\$582		
	G30	Commercial	Non-standard	\$1,213			\$410	\$803		
	G40	Industrial	Non-standard	\$4,162			\$1,472	\$2,690		
					I					
	Add extra rows for	additional consumer groups or price category c								
			tandard consumer totals	\$45,218	-		\$18,948	\$26,270		
			tandard consumer totals	\$5,375	-		\$1,882	\$3,493		
			Total for all consumers	\$50,593	-		\$20,830	\$29,763		

POWERCO LIMITED

GAS INFORMATION DISCLOSURE 2016

										Deverage	ture the set
								mpany Name		Powerco L	
							F	or Year Ended	3	0 Septeml	
						Ne	etwork / Sub-N	etwork Name		Central R	egion
sche	edule requires the billed q	ON BILLED QUANTITIE uantities and associated line charge s that are included in each consume	e revenues for the disclos	ure year for each c	onsumer group or p		he GDB in its prid	cing schedules. In	formation is	5	
	8(i): Billed quanti	ties by price component									
							Billed quantities	by price compone	ent		Add extra colu
						Price component	Fixed	Variable			for additional b quantities by p component o necessary
	Consumer group name or price category code		Standard or non- standard consumer group (specify)	Average no. of ICPs in disclosure year	Quantity of gas delivered (TJ)	Unit charging basis (eg, days, GJ, etc.)	Days	GJ			
	G06	Residential	Standard	12,099	139		-	138,702]
	G11	Residential / Small Commercial	Standard	30,759	911		11,257,611	911,189			
	G12	Commercial	Standard	687	183		251,442	182,918			
	G14	Commercial	Standard	278	245		101,748	244,889			
	G16	Commercial	Standard	168	307		61,488	306,790			
	G18	Commercial	Standard	33	127		11,895	127,255			
	G30	Commercial	Non-standard	22	123		5,845	122,634			
	G40	Industrial	Non-standard	69	2,885		23,424	2,884,573			
	Add extra rows for add	itional consumer groups or price cate	gory codes as necessary								
		Sta	andard consumer totals	44,023	1,912		11,684,184	1,911,743	-		
			andard consumer totals	91	3,007		29,269	3,007,206	-		
			Total for all consumers	44,114	4,919		11,713,453	4,918,949			

								ompany Name		werco L epteml	imited ber 2016
						Ne	etwork / Sub-N	letwork Name	C	entral F	Region
nis so	chedule requires the b	ORT ON BILLED QUANTITIE illed quantities and associated line charg of ICPs that are included in each consum	e revenues for the disclos	ure year for each o	onsumer group or p		he GDB in its pri	cing schedules. Infor	mation is		
1 2	8(ii): Line cha	arge revenues (\$000) by price	component				Line charge reve	enues (\$000) by price	component		Add extra columr
33						Price component	Fixed	Variable			for additional line charge revenues b price component o necessary
4	Consumer grou or price categor		Standard or non- standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts	Rate (eg, \$ per day, \$ per GJ, etc.)	\$/day	\$/GJ			
5											
5 6	G06	Residential	Standard	\$2,425			-	2,425		1	1
5	G06 G11	Residential Residential / Small Commercial	Standard Standard	\$2,425 \$10,676			- 6,565	2,425			-
5							- 6,565 355	· · · · ·]
5 7 8	G11	Residential / Small Commercial	Standard	\$10,676				4,111			
5 7 8	G11 G12	Residential / Small Commercial Commercial	Standard Standard	\$10,676 \$1,055			355	4,111 700			
5 7 3 9 0	G11 G12 G14	Residential / Small Commercial Commercial Commercial	Standard Standard Standard	\$10,676 \$1,055 \$1,080			355 403	4,111 700 677			
5 7 3 9 1	G11 G12 G14 G16	Residential / Small Commercial Commercial Commercial Commercial	Standard Standard Standard Standard Standard	\$10,676 \$1,055 \$1,080 \$1,267			355 403 308	4,111 700 677 959			
•	G11 G12 G14 G16 G18	Residential / Small Commercial Commercial Commercial Commercial Commercial	Standard Standard Standard Standard Standard	\$10,676 \$1,055 \$1,080 \$1,267 \$434			355 403 308 107	4,111 700 677 959 327			
5 7 3 9 9 9 9 9	G11 G12 G14 G16 G18 G30	Residential / Small Commercial Commercial Commercial Commercial Commercial Commercial	Standard Standard Standard Standard Standard Non-standard	\$10,676 \$1,055 \$1,080 \$1,267 \$434 \$381			355 403 308 107 114	4,111 700 677 959 327 267			
5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	G11 G12 G14 G16 G18 G30	Residential / Small Commercial Commercial Commercial Commercial Commercial Commercial	Standard Standard Standard Standard Standard Non-standard	\$10,676 \$1,055 \$1,080 \$1,267 \$434 \$381			355 403 308 107 114	4,111 700 677 959 327 267			
	G11 G12 G14 G16 G18 G30	Residential / Small Commercial Commercial Commercial Commercial Commercial Commercial	Standard Standard Standard Standard Standard Non-standard	\$10,676 \$1,055 \$1,080 \$1,267 \$434 \$381			355 403 308 107 114	4,111 700 677 959 327 267			
5 7 7 7 7 7 7 7	G11 G12 G14 G16 G18 G30 G40	Residential / Small Commercial Commercial Commercial Commercial Commercial Industrial	Standard Standard Standard Standard Standard Non-standard Non-standard	\$10,676 \$1,055 \$1,080 \$1,267 \$434 \$381			355 403 308 107 114	4,111 700 677 959 327 267			
5 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	G11 G12 G14 G16 G18 G30 G40	Residential / Small Commercial Commercial Commercial Commercial Commercial Industrial Industrial	Standard Standard Standard Standard Standard Non-standard Non-standard Standard Non-standard	\$10,676 \$1,055 \$1,080 \$1,267 \$434 \$381 \$3,223 			355 403 308 107 114 1,252	4,111 700 677 959 327 267 1,971			
	G11 G12 G14 G16 G18 G30 G40	Residential / Small Commercial Commercial Commercial Commercial Commercial Industrial Industrial St St St St	Standard Standard Standard Standard Standard Non-standard Non-standard	\$10,676 \$1,055 \$1,080 \$1,267 \$434 \$381			355 403 308 107 114	4,111 700 677 959 327 267			

								Company Name For Year Ended			verco Li eptemb	mited er 2016
							Network / Sub-	Network Name		Lov	wer Net	work
s sc	chedule requires the bille	RT ON BILLED QUANT ed quantities and associated line of ICPs that are included in each cor	harge revenues for th	ne disclosure year for	each consumer grou		the GDB in its pric	ing schedules. Info	ormatior	n is		
	8(i): Billed qua	ntities by price compon	ent									
							Billed quantities l	oy price componen	t			Add extra columi
						Price component	Fixed	Variable			-	or additional bill quantities by pric component as necessary
	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	Quantity of gas delivered (TJ)	Unit charging basis (eg, days, GJ, etc.)	Days	GJ				
	G06	Residential	Standard	13,492	163		-	163,357				
	G11		Standard	45,602	1,674		16,690,149	1,673,836				
	G12	Commercial	Standard	1,075	235		393,450	235,363				
	G14	Commercial	Standard	252	183		92,049	182,697				
	G16	Commercial	Standard	118	235		43,005	234,628				
	G18	Commercial	Standard	21	55		7,686	54,667				
	G30	Commercial	Non-standard	105	332		28,166	332,072				
	G40	Industrial	Non-standard	32	643		7,320	642,846				
							1	1		1	1	
	Add extra rows for	additional consumer groups or price	e category codes as n									
	Add extra rows for	Standa	e category codes as n rd consumer totals rd consumer totals	ecessary 60,558 137	2,545 975		17,226,339 35,486	2,544,548				

Г

							F	or Year Ended		30 S	epteml	per 2016
							Network / Sub-N	letwork Name		Lo	wer Ne	twork
sch	edule requires the bille	RT ON BILLED QUANT d quantities and associated line c ICPs that are included in each cor	harge revenues for th	e disclosure year fo	r each consumer group		the GDB in its prici	ng schedules. Info	rmatio	n is		
	8(ii): Line charg	e revenues (\$000) by p	rice componen	t								
							Line charge revenu	ues (\$000) by price	e compo	onent		Add extra colum for additional lii
						Price component	Fixed	Variable				charge revenues price component necessary
	Consumer group name or price category code	Consumer type or types (eg, residential, commercial, etc.)	Standard or non- standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Rate (eg, \$ per day, \$ per GJ, etc.)	\$/day	\$/GJ				ŕ
	G06	Residential	Standard	\$3,172				3,172		1		
	G11		Standard	\$19,993			9,862	10,131				
	G12	Commercial	Standard	\$1,701			355	1,346				
	G14	Commercial	Standard	\$1,552			519	1,033				
	G16	Commercial	Standard	\$1,508			372	1,137				
	G18	Commercial	Standard	\$356			102	254				
	G30	Commercial	Non-standard	\$832			296	536				
	G40	Industrial	Non-standard	\$936			220	716				
				-	·							
					·							
				-			├ ────┤					
							LI					
	Add extra rows for a	additional consumer groups or price	- · ·	cessary \$28,283			¢11.200	¢17.074				
			rd consumer totals rd consumer totals	\$28,283 \$1,768	-		\$11,209 \$516	\$17,074 \$1,253		-		
			for all consumers	\$30,051			\$11,725	\$18,327				

15. Schedule 9a: Asset Register

				mpany Name		Powerco		
				or Year Ended		30 Septem		
			Network / Sub-n	etwork Name		Powerco	Limited	
SC	HEDULE 9a: ASSET I	REGISTER						
This	s schedule requires a summary	of the quantity of assets that make up th	e network, by asset category and ass	et class.				
sch re	et							
					Items at start of	Items at end of		
8	Operating Pressure	Asset Category	Asset Class	Units	year (quantity)	year (quantity)	Net change	Data accuracy (1–4)
9	Intermediate Pressure	Main pipe	IP PE main pipe	km	1	1	0	
10	Intermediate Pressure	Main pipe	IP steel main pipe	km	265	264	(0)	
11	Intermediate Pressure	Main pipe	IP other main pipe	km	-	-		3
12	Intermediate Pressure	Service pipe	IP PE service pipe	km	0	0	(0)	
13	Intermediate Pressure	Service pipe	IP steel service pipe	km	11	11	(0)	
14	Intermediate Pressure	Service pipe	IP other service pipe	km	1	1	0	
15	Intermediate Pressure	Stations	Intermediate pressure DRS	No.	134	130	(4)	
16	Intermediate Pressure	Line valve	IP line valves	No.	827	812	(15)	
17	Intermediate Pressure	Special crossings	IP crossings	No.	114	111	(3)	
18	Medium Pressure	Main pipe	MP PE main pipe	km	3,406	3,433	27	
19	Medium Pressure	Main pipe	MP steel main pipe	km	154	153	(1)	
20	Medium Pressure	Main pipe	MP other main pipe	km	33	33	(0)	
21	Medium Pressure	Service pipe	MP PE service pipe	km	1,772	1,824	52	
22	Medium Pressure	Service pipe	MP steel service pipe	km	53	52	(1)	
23	Medium Pressure	Service pipe	MP other service pipe	km	54	54	1	
24	Medium Pressure	Stations	Medium pressure DRS	No.	63	68	5	
25	Medium Pressure	Line valve	MP line valves	No.	1,455	1,471	16	
26	Medium Pressure	Special crossings	MP special crossings	No.	262	259	(3)	
27	Low Pressure	Main pipe	LP PE main pipe	km	41	34	(7)	
28	Low Pressure	Main pipe	LP steel main pipe	km	4	4	(0)	
29	Low Pressure	Main pipe	LP other main pipe	km	1	1	0	
30	Low Pressure	Service pipe	LP PE service pipe	km	18	15	(3)	
31	Low Pressure	Service pipe	LP steel service pipe	km	2	1	(0)	
32	Low Pressure	Service pipe	LP other service pipe	km	1	1	0	
33	Low Pressure	Line valve	LP line valves	No.	318	219	(99)	
34	Low Pressure	Special crossings	LP special crossings	No.	5	5		3
35	All	Monitoring and control systems	Remote terminal units	No.	76	75	(1)	
36	All	Cathodic protection systems	Cathodic protection	No.	26	25	(1)	2

POWERCO LIMITED

			Con	npany Name		Powerco	Limited	
			Fo	r Year Ended		30 Septem	ber 2016	
			Network / Sub-ne			Central N		
-	IEDULE 9a: ASSET F		Network / Sub-ne					
This s	chedule requires a summary	of the quantity of assets that make up th	ie network, by asset category and asse	t class.				
h ref								
					Items at start of	Items at end of		
8	Operating Pressure	Asset Category	Asset Class	Units	year (quantity)	year (quantity)	Net change	Data accuracy (1-
9	Intermediate Pressure	Main pipe	IP PE main pipe	km	1	1	-	
10	Intermediate Pressure	Main pipe	IP steel main pipe	km	105	105	(0)	
11	Intermediate Pressure	Main pipe	IP other main pipe	km	-	-		
2	Intermediate Pressure	Service pipe	IP PE service pipe	km	0	0	(0)	
3	Intermediate Pressure	Service pipe	IP steel service pipe	km	3	3	0	
4	Intermediate Pressure	Service pipe	IP other service pipe	km	0	0	-	
5	Intermediate Pressure	Stations	Intermediate pressure DRS	No.	54	52	(2)	
6	Intermediate Pressure	Line valve	IP line valves	No.	159	161	2	
7	Intermediate Pressure	Special crossings	IP crossings	No.	59	57	(2)	
8	Medium Pressure	Main pipe	MP PE main pipe	km	1,794	1,805	10	
9	Medium Pressure	Main pipe	MP steel main pipe	km	141	140	(1)	
0	Medium Pressure	Main pipe	MP other main pipe	km	20	20	(0)	
1	Medium Pressure	Service pipe	MP PE service pipe	km	964	976	13	
2	Medium Pressure	Service pipe	MP steel service pipe	km	42	41	(1)	
3	Medium Pressure	Service pipe	MP other service pipe	km	29	29	0	
4	Medium Pressure	Stations	Medium pressure DRS	No.	42	45	3	
5	Medium Pressure	Line valve	MP line valves	No.	902	885	(17)	
6	Medium Pressure	Special crossings	MP special crossings	No.	165	163	(2)	
7	Low Pressure	Main pipe	LP PE main pipe	km	3	3	0	
8	Low Pressure	Main pipe	LP steel main pipe	km	3	3	(0)	
9	Low Pressure	Main pipe	LP other main pipe	km	0	0		
0	Low Pressure	Service pipe	LP PE service pipe	km	3	3	(0)	
1	Low Pressure	Service pipe	LP steel service pipe	km	0	0		
2	Low Pressure	Service pipe	LP other service pipe	km	1	1	0	
3	Low Pressure	Line valve	LP line valves	No.	12	13	1	
4	Low Pressure	Special crossings	LP special crossings	No.	-	-		
5	All	Monitoring and control systems	Remote terminal units	No.	35	36	1	

			Com	pany Name		Powerco	Limited	
			For	Year Ended		30 Septem	ber 2016	
			Network / Sub-net	work Name		Lower N	etwork	
2	HEDULE 9a: ASSET I	PECIETER	Networky Sub net	work wante				
his	schedule requires a summary	of the quantity of assets that make up th	ie network, by asset category and asset	class.				
n ref								
					Items at start of	Items at end of		
8	Operating Pressure	Asset Category	Asset Class	Units	year (quantity)	year (quantity)	Net change	Data accuracy (1-
9	Intermediate Pressure	Main pipe	IP PE main pipe	km	-	0	0	
0	Intermediate Pressure	Main pipe	IP steel main pipe	km	160	159	(0)	
11	Intermediate Pressure	Main pipe	IP other main pipe	km	-	-	-	
12	Intermediate Pressure	Service pipe	IP PE service pipe	km	0	0	(0)	
13	Intermediate Pressure	Service pipe	IP steel service pipe	km	8	8	(0)	
14	Intermediate Pressure	Service pipe	IP other service pipe	km	1	1	0	
5	Intermediate Pressure	Stations	Intermediate pressure DRS	No.	80	78	(2)	
6	Intermediate Pressure	Line valve	IP line valves	No.	668	651	(17)	
7	Intermediate Pressure	Special crossings	IP crossings	No.	55	54	(1)	
8	Medium Pressure	Main pipe	MP PE main pipe	km	1,611	1,628	16	
19	Medium Pressure	Main pipe	MP steel main pipe	km	13	13	0	
0	Medium Pressure	Main pipe	MP other main pipe	km	13	13	(0)	
21	Medium Pressure	Service pipe	MP PE service pipe	km	809	848	39	
22	Medium Pressure	Service pipe	MP steel service pipe	km	11	11	(0)	
3	Medium Pressure	Service pipe	MP other service pipe	km	25	25	0	
24	Medium Pressure	Stations	Medium pressure DRS	No.	21	23	2	
25	Medium Pressure	Line valve	MP line valves	No.	553	586	33	
6	Medium Pressure	Special crossings	MP special crossings	No.	97	96	(1)	
7	Low Pressure	Main pipe	LP PE main pipe	km	38	31	(7)	
8	Low Pressure	Main pipe	LP steel main pipe	km	1	1	(0)	
9	Low Pressure	Main pipe	LP other main pipe	km	1	1	0	
0	Low Pressure	Service pipe	LP PE service pipe	km	15	12	(3)	ļ
1	Low Pressure	Service pipe	LP steel service pipe	km	1	1	(0)	
2	Low Pressure	Service pipe	LP other service pipe	km	0	0	(0)	
3	Low Pressure	Line valve	LP line valves	No.	306	206	(100)	
4	Low Pressure	Special crossings	LP special crossings	No.	5	5	-	
5	All	Monitoring and control systems	Remote terminal units	No.	41	39	(2)	
36	All	Cathodic protection systems	Cathodic protection	No.	10	9	(1)	

16. Schedule 9b: Asset Age Profile

																									Compan	, Name		Powerco	imited	
																									For Yea			30 Septem		6
																												Powerco		•
																							IVE	WORK	/ Sub-networ	civame		Powerco	Imited	
	IEDULE 9b: ASSE																													
This	schedule requires a summ	ary of the age profile (based on yea	ar of installation) of the assets	that make up the	network, by	asset cat	egory and	asset cla	\$5.																					
sch ref				0																										
8		Disclosure Year (year ended)	30 September 2016							Number	of assets	at disclo	isure yea	ar end by	/ installation	on date														
																											No. with	Items at end	No. with	Data
					1970	1975				1995																	age	of year	default	accuracy
9	Operating Pressure	Asset Category	Asset Class	Units pre-1970	0 -1974	-1979	-1984	1989	-1994	-1999	2000	2001	2002	2003	2004	2005	2006	2007	2008 2	009	2010 2	011	2012	2013	2014 2015		unknown	(quantity)	dates	(1-4)
10	Intermediate Pressure	Main pipe	IP PE main pipe	km		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	- 0	0	-	1	-	3
11	Intermediate Pressure	Main pipe	IP steel main pipe	km 6	67	34	92	44	12	4	4	U	U	U	U	U	U	U	U	U	U	U	U	-	0 0	0		264	-	3
12 13	Intermediate Pressure Intermediate Pressure	Main pipe Service pipe	IP other main pipe IP PE service pipe	km km		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		- 0	-	3
13	Intermediate Pressure		IP steel service pipe	km (1	0	2	1	0	-	-		-	-	-	-	0	0	0	0	-	0	-	-			11		3
14	Intermediate Pressure		IP other service pipe	km	- 0	1	4	0	1	0	0	0		0	0	0	0	0	0	0	0	0	0	U	- 0			11		2
16	Intermediate Pressure	Stations	Intermediate pressure DRS	No.	1 2	2	36	30	28	1	-	-		1	2	2	2	1	2	-	2	3	3		2 7	3		130		2
17	Intermediate Pressure		IP line valves	No.	3 52	42	125	396	75	16	3	1		3	3	9	6	6	8	8	14	14	14	5	2 5	2		812	_	2
18	Intermediate Pressure	Special crossings	IP crossings	No.	9	6	65	18	4	5	2	-			-	-			-	-		-		-	-	- 1	-	111	-	2
19	Medium Pressure	Main pipe	MP PE main pipe	km	2 40	190	590	633	698	670	62	51	40	29	53	49	46	48	47	26	21	24	29	19	27 26	15	-	3,433	-	3
20	Medium Pressure	Main pipe	MP steel main pipe	km 3	7 58		24	24	7	6	1	0	0	0	0	0	-	0	0	0	0	0	0	-	0 0	0	-	153	-	3
21	Medium Pressure	Main pipe	MP other main pipe	km () 1	5	9	10	4	3	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	33	-	3
22	Medium Pressure	Service pipe	MP PE service pipe	km 5	5 16	86	324	311	370	306	34	29	28	25	26	23	22	25	21	18	21	21	23	21	21 25	23	-	1,824	-	3
23	Medium Pressure	Service pipe	MP steel service pipe	km 1	l 10	14	8	7	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	-	-	52	-	3
24	Medium Pressure	Service pipe	MP other service pipe	km 1	l 1	2	24	14	8	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	- 0	0	-	54	-	3
25	Medium Pressure	Stations	Medium pressure DRS	No.		-	7	34	14	1	-	-	1	-	-	2	-	-	-	1	-	2	2	-	2 2	-	-	68	-	2
26	Medium Pressure	Line valve	MP line valves	No. 4	12	37	62	625	249	27	1	2	11	11	22	17	24	19	35	34	51	51	57	29	39 42	10	-	1,471	-	2
27	Medium Pressure	Special crossings	MP special crossings	No.	2 19	8	98	61	33	18	3	6	2	-	1	3	-	-	1	3	-	-	-	1	-		-	259	-	2
28	Low Pressure	Main pipe	LP PE main pipe	km	- 0	0	2	6	17	3	0	0	-	1	0	0	0	1	1	0	0	0	0	0	2 0	0	-	34	-	3
29	Low Pressure	Main pipe	LP steel main pipe	km (0	0	0	3	1	-	-	-	-	-	-	-	-	-	-	-	-	0	-	0		-	4	-	3
30	Low Pressure	Main pipe	LP other main pipe	km		-	0	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	1	-	3
31	Low Pressure	Service pipe	LP PE service pipe	km (0 0	0	1	3	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	-	15	-	3
32	Low Pressure	Service pipe	LP steel service pipe	km (0 0	0	0	0	0	0	0	0	0	0	0	0		-	0	0	-	-	0	-		-	-	1	-	3
33	Low Pressure	Service pipe	LP other service pipe	km (-	0	0	0	0	0	0	-	0	0	-	-	0	-	0		0	0	0	-	0 0	0	-	1	-	3
34	Low Pressure	Line valve	LP line valves	No.		-	3	4	144	6	-	-	2	1	3	2	4	6	5	6	7	2	5	2	13 4	-		219	-	2
35	Low Pressure All	Special crossings	LP special crossings	No.		-	-	-	1	4	-	-	-	-	-	-	-	-	-		-	- 21	- 19	-	-	1		75	-	2
36 37	All	Monitoring and control systems	Remote terminal units Cathodic protection	No.	2	-	-	-	-	-	-	-	-	-	- 2	-	-	-	-	11	15	21	19	-	3 5	1	-	25	-	4
3/	All	Cathodic protection systems	camoure protection	NO.	<u> </u>	-	/	5	5	3	-	-	-	-	4	-	-	-	-	-	-1	-	-	-	-	1 -	3	25	-	2

																										С	ompan	y Name		Powerco Li	mited	
																										1	For Yea	r Ended		30 Septemb	er 2016	
																									Netwo	rk / Sub-	networ	k Name		Central Ne	twork	
	EDULE 9b: ASSE	ET AGE PROFILE nary of the age profile (based on yea	ar of installation) of the asset	s that n	nake up th	e network	, by asse	t category	/ and asse	et class.																		L				
8		Disclosure Year (year ended)	30 September 2016	1							N	lumber of	assets a	disclosure	year end l	oy instal	lation dat	e														
																													No. with	Items at end		
0	Operating Pressure	Asset Category	Asset Class	Units		1970			1985- 1989		1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2012	2014	2015	2016	age unknown	of year (quantity)	default dates	accuracy (1–4)
	Intermediate Pressure		IP PE main pipe	km	13/0	-13/4	-19/9	-1904	1969	-1994	-1999	2000	2001	2002	2003	2004	2005	2000	2007	2000	2009	2010	2011	1	2015		2013	2010	unklown	(qualitity)	uales	
	Intermediate Pressure		IP steel main pipe	km	2	12	7	57	19	7	0	0	0	0	-	0	0	0	0	0	0	0	-	0	-	0	0	-		105		1
	Intermediate Pressure		IP other main pipe	km		-	-	-	-	-				-	-	-	-			-	-	-	-	-		-		-				-
	Intermediate Pressure		IP PE service pipe	km	-	-		0	-	-	0	-		-	-	-	-			-	0	-	-	-	-	-				0		-
	Intermediate Pressure	e Service pipe	IP steel service pipe	km	0	0	1	1	1	0	0	0		-	-	0	0		- 0	0	-		0	-	0	-				3		-
	Intermediate Pressure	e Service pipe	IP other service pipe	km	-	-	-	-	0	-		-		-	-	-	-			-	-	-	-	-		-		-		0		-
	Intermediate Pressure	e Stations	Intermediate pressure DRS	No.	-	-	-	3	29	12		-		-	-	1	2		• 1			1		1		-	1	1		52		-
	Intermediate Pressure	e Line valve	IP line valves	No.	-	-	-	10	96	30		-		-	-	1	3	1	-		3	5	2	6	4	-		-		161		-
	Intermediate Pressure	 Special crossings 	IP crossings	No.	-	5	3	30	18	-	1	-		-	-	-	-			-	-	-	-	-	-	-		-		57		-
2	Medium Pressure	Main pipe	MP PE main pipe	km	2	15	61	371	440	304	280	32	30	23	13	21	27	32	29	27	14	10	16	16	8	12	11	9		1,805		-
)	Medium Pressure	Main pipe	MP steel main pipe	km	-	55	24	20	23	5	4	1	0	0	0	0	0		- 0	0	0	0	-	0	-	0	0	-		140		-
	Medium Pressure	Main pipe	MP other main pipe	km	-	1	3	4	8	2	1	0	0	0	-	0	-	0	0	0	0	-	-	-	-	-		-		20		-
2	Medium Pressure	Service pipe	MP PE service pipe	km		12	67	163	217	194	134	17	11	10	11	11	11	12	12	10	9	11	10	11	10	9	11	11		976		-
3	Medium Pressure	Service pipe	MP steel service pipe	km		9	14	7	6	3	1	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0		-		41		-
1	Medium Pressure	Service pipe	MP other service pipe	km	1	1	1	6	13		0	0	0	0	0	1	0	0	0	0	0	0	0	0	-	-		0	-	29		-
	Medium Pressure	Stations	Medium pressure DRS	No.	-	-	-	-	34		1	-		-	-	-	2		-	-	-	-	-	-	-	-	1		-	45		-
5	Medium Pressure	Line valve	MP line valves	No.	3	19	12	31	-			1	1	6	8	9	8	14	11	12	17	19	27	30	20	9	13	4	-	885		-
,	Medium Pressure	Special crossings	MP special crossings	No.	1	19	-	47	60	18	5	3	3	2	-	1	1			-	2		-	-	1	-			-	163		-
2	Low Pressure	Main pipe Main pipe	LP PE main pipe	km km		0	-	0	0	0	0	0			1		-			1	0	-	-	-		1				3		-
2	Low Pressure Low Pressure	Main pipe	LP steel main pipe LP other main pipe	km		-	U	0	U	3	U	-		-	-	-	-	-			-			-	-	-	-		-	3		-
	Low Pressure	Service pipe	LP PE service pipe	km				0	1	1	1		0	-	-	-	-	0		-	-	-	-	-	-	-		0	-	2		-
	Low Pressure	Service pipe	LP steel service pipe	km			0	0	0	0	0		0				0			0	0		0	0	0		_			0		1
	Low Pressure	Service pipe	LP other service pipe	km	-		0	0	0	0	0	0		0	0		-			0		0		-			_			1		+
1	Low Pressure	Line valve	LP line valves	No.	-		-	-	2	2	2	-		-	-					-		1				6	-			13		-
	Low Pressure	Special crossings	LP special crossings	No.						Ĩ.					-		-					Ĵ.		-		-						1
5	All	Monitoring and control systems		No.	-	-	-	-	-					-	-		-			-	-	-	16	18		-	1	1		36		-
7	All	Cathodic protection systems	Cathodic protection	No.				-	-	1		1		-					-									<u> </u>		16		+

POWERCO LIMITED

GAS INFORMATION DISCLOSURE 2016

																									Netwo		For Yea	y Name r Ended k Name		Powerco Li 30 Septemb Lower Net	er 2016	
	EDULE 9b: ASSET	AGE PROFILE of the age profile (based on yea	r of installation) of the assets	that m	ake up the	e network	, by asset	t category	and asse	et class.																						
ref																																
3	D	isclosure Year (year ended)	30 September 2016								N	lumber of	assets at	disclosur	e year en	d by insta	llation date															
																													No. with	Items at end		Data
,	Operating Pressure A	sset Category	Asset Class	Units	pre- 1970		1975 1979	1980 1984	1985- 1989	1990 1994	1995 1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	age unknown	of year (quantity)	default dates	accuracy (1-4)
	Intermediate Pressure		IP PE main pipe	km	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	. 0	0	-	0	-	
	Intermediate Pressure	Main pipe	IP steel main pipe	km	4	55	26	36	25	5	4	3	0	0	0	-	0	0	0	0	0	0	0	0	-	0	0	0	-	159	-	
	Intermediate Pressure	Main pipe	IP other main pipe	km	-			-	-	-		-	-	-		-	-	-	-		-	1.1		-	-					-	-	
	Intermediate Pressure	Service pipe	IP PE service pipe	km	-		0	0	-	-	0	-	-	-		-	-	-	0	0	-	0	-	0	-	-			-	0	-	
	Intermediate Pressure	Service pipe	IP steel service pipe	km	0	1	1	3	2	0	0	0	0	-	0	0	-	0	0	0	0	0	0	0	0	-	• 0	-	-	8	-	
	Intermediate Pressure	Service pipe	IP other service pipe	km	-	0	0	1	0	-		0	-	-		-	0		-		0			-	-	-	• 0	-	-	1	-	
	Intermediate Pressure	Stations	Intermediate pressure DRS	No.	1	2	2	33	1	16	1	-	-	-	1	1	-	2	-	2	-	1	3	2	-	2	6	2	-	78	-	
	Intermediate Pressure	Line valve	IP line valves	No.	3	52	42	115	300	45	16	3	1	-	3	2	6	5	6	8	5	9	12	8	1	2	5	2	-	651	-	
	Intermediate Pressure	Special crossings	IP crossings	No.	1	4	3	35		4	4	2		-	-		-		-					-		-		1	-	54	-	
	Medium Pressure	Main pipe	MP PE main pipe	km	0	24	129	219	193	394	390	30	21	16	16	32	21	14	18	20	12	11	8	13	10	15	15	6	-	1,628	-	
	Medium Pressure	Main pipe	MP steel main pipe	km	-	2	3	3	1	2	2	0	0	-	-	0	0		-	0	-	0	0	0	-	0	0	0	-	13	-	
	Medium Pressure	Main pipe	MP other main pipe	km	-	0	2	5	2	2	2	0	0	0	0	0	0	0	-	0	0	-		-	-	-			-	13	-	
	Medium Pressure	Service pipe	MP PE service pipe	km	3	5	19	161	94	176	172	17	18	17	13	15	13	11	13	11	9	10	11	12	11	12	14	12	-	848	-	
	Medium Pressure	Service pipe	MP steel service pipe	km	0	0	1	2	0	3	4	0	0	0	0	0	0	0	0	0	0			0		0	0	-	-	11	-	
	Medium Pressure	Service pipe	MP other service pipe	km	0	0	1	19	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		. 0	0	-	25	-	
	Medium Pressure	Stations	Medium pressure DRS	No.	-	-	1	7		7		-		1		-	-		-		1		2	2	-	2	1	-		23	-	
	Medium Pressure	Line valve	MP line valves	No.	1	5	25	31	141	126	11	-	1	5	3	13	9	10	8	23	17	32	24	27	9	30	29	6		586	-	
	Medium Pressure	Special crossings	MP special crossings	No.	1	-	8	51	1	15	13	-	3	-		-	2		-	1	1			-	-	-			-	96	-	
	Low Pressure	Main pipe	LP PE main pipe	km	-	0	0	2	6	17	3	0	0	-	0	0	0	0	1	0	0	0	0	0	0	0	0	0	-	31	-	
	Low Pressure	Main pipe	LP steel main pipe	km	0		0	0	0	0	0	-		-		-	-		-		-			0	-	0			-	1	-	
	Low Pressure	Main pipe	LP other main pipe	km	-		-	-		0	0	-		-		-	-		-		-			-	-	0				1	-	
	Low Pressure	Service pipe	LP PE service pipe	km	0	0	0	1	2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		12	-	
	Low Pressure	Service pipe	LP steel service pipe	km	0	0	0	0	0	0	0	0	0	0	0	0	0		-		0			0	-	-		· ·	-	1		
	Low Pressure	Service pipe	LP other service pipe	km	0		0	0	0	0	0	-		-		-	-	0	-	0	-		0	0	-	0	0	0	-	0		
	Low Pressure	Line valve	LP line valves	No.	-	-	-	3	2	142	4	-	-	2	1	3	2	4	6	5	6	6	2	5	2	7	4	-	-	206		
	Low Pressure	Special crossings	LP special crossings	No.	-		-	-		1	4	-		-		-	-		-		-			-	-	-		· ·	-	5		
	All	Monitoring and control systems	Remote terminal units	No.	-	-	-	-	-	-		-	-	-		-	-	-	-		11	15	5	1	-	3	4	-	-	39		
	All	Cathodic protection systems	Cathodic protection	No.		2		1	2		2																		1	0		1

17. Schedule 9c: Report on Pipeline Data

		Company Name	1	Powerco Limited	I
		For Year Ended	3(O September 20	16
	Netwo	rk / Sub-network Name	-	Powerco Limited	I
SCH	HEDULE 9c: REPORT ON PIPELINE DATA				
This s	schedule requires a summary of the key characteristics of the p	ipeline network.			
ch ref					
8	Network Information (end of year)				
9	System length by material (defined by GDB)	Length (km)	%	_	
10	PE	5,307	90.21%		
11	Steel	486	8.26%		
2	Other	90	1.53%		
3					
4					
15					
6	System length	5,883	100.00%		
17					
					Gas conveyed for
			Weighted average		Persons not
		System length (km)	pipe diameter	Number of ICPs (at	
8	By operating pressure:	(at year end)	(mm)	year end)	(LT)
9	Intermediate pressure	277	134	300	1,696
0	Medium pressure	5,550	40	103,472	6,404
	Low pressure	56	76	1,464	339
21 22	Total	5,883	45	105,236	8,438

		Company Name	I	Powerco Limited	
		For Year Ended	30	0 September 20	16
	Network / Si	ub-network Name		Central Networl	(
so	CHEDULE 9c: REPORT ON PIPELINE DATA				
	s schedule requires a summary of the key characteristics of the pi	ineline network			
	s senearie requires a summary of the key endracteristics of the p				
sch r	ef				
8	Network Information (end of year)				
9	System length by material (defined by GDB)	Length (km)	%		
10	PE	2,788	89.06%		
11	Steel	293	9.35%		
12	Other	50	1.58%		
13				-	
14				-	
15					
16	System length	3,130	100.00%	J	
17					
					Gas conveyed for
			Weighted average		Persons not
		System length (km)	pipe diameter	· · · · · · · · · · · · · · · · · · ·	involved in the GDB
18	By operating pressure:	(at year end)	(mm)	year end)	(цт)
19	Intermediate pressure	109	132	76	1,348
20	Medium pressure	3,011	37	43,757	3,550
21 22	Low pressure Total	10	49 40	324	21
22	IOTAI	3,130	40	44,157	4,919

			Company Name	1	Powerco Limited	l i
			For Year Ended	30	O September 20	16
		Network	/ Sub-network Name		Lower Network	
sc		c: REPORT ON PIPELINE DATA	·			
		res a summary of the key characteristics of the				
11115	s schedule requi	res a summary of the key characteristics of the	piperne network.			
sch ref	ef.					
8	Netwo	rk Information (end of year)				
9		em length by material (defined by GDB)	Length (km)	%		
10		PE	2,519	91.51%		
11		Steel	193	7.02%		
12		Other	40	1.47%		
13						
14						
15						
16	Syst	em length	2,753	100.00%		
17						
						Gas conveyed for
				Weighted average		Persons not
			System length (km)	pipe diameter	Number of ICPs (at	involved in the GDB
18	By c	perating pressure:	(at year end)	(mm)	year end)	(LT)
19		Intermediate pressure	168	135	224	348
20		Medium pressure	2,539	44	59,715	2,854
21		Low pressure	45	82	1,140	318
22	Tota	al	2,753	50	61,079	3,519

18. Schedule 9d: Network Demand

	Company Name	P	owerco Limited
	For Year Ended	30	September 201
	Network / Sub-network Name	P	owerco Limited
	DULE 9d: REPORT ON DEMAND		/
	edule requires a summary of the key measures of network demand ions including, maximum monthly loads and total gas conveyed)	for the disclosure yea	ar (number of new
ch ref			
8			
0			
9	9d(i): Consumer Connections		
10	Number of ICPs connected in year by consumer type		
11			Number of
12	Consumer types defined by GDB		connections (ICPs)
13	Residential / Small Commerical		1,625
14	Commercial		112
15	Industrial		-
16			
17			
18		Total	1,737
19	9d(ii): Gas Delivered		
20			
21	Number of ICPs at year end	105,236	connections
22	Maximum daily load	43,007	(GJ per day)
23	Maximum monthly load	1,012,724	(GJ per month)
24	Number of directly billed ICPs	-	(at year end)
25	Total gas conveyed	8,525,229	(GJ per annum)
26	Average daily delivery	23,293	(GJ per day)
27			

	Company Name	P	owerco Limited
	For Year Ended	30	September 2016
	Network / Sub-network Name	C	entral Network
SC	CHEDULE 9d: REPORT ON DEMAND		
	s schedule requires a summary of the key measures of network new connections including, maximum monthly loads and total		osure year (number
sch re		8	
SCIT			
8			
9	9d(i): Consumer Connections		
10	Number of ICPs connected in year by consumer type	e	
11			
12	Commentation defined by CDD		Number of
12 13	Consumer types defined by GDB		connections (ICPs)
13 14	Residential / Small Commerical		590
14 15	Industrial		52
15			
17			
18		Total	642
19	9d(ii): Gas Delivered		
20	Sully. das Denvered		
21	Number of ICPs at year end	44,157	connections
22	Maximum daily load	20,879	(GJ per day)
23	Maximum monthly load	529,461	(GJ per month)
24	Number of directly billed ICPs	-	(at year end)
25	Total gas conveyed	4,958,800	(GJ per annum)
26	Average daily delivery	13,549	(GJ per day)
27			
28	Load factor	78.05%	

	Company Name	P	owerco Limited
	For Year Ended	30	September 201
	Network / Sub-network Name	L	ower Network
s sche	DULE 9d: REPORT ON DEMAND edule requires a summary of the key measures of network demand for the o ons including, maximum monthly loads and total gas conveyed)	lisclosure year (num	ber of new
	9d(i): Consumer Connections Number of ICPs connected in year by consumer type		
10 11	Number of ters connected in year by consumer type		
12	Consumer types defined by GDB		Number of connections (ICPs)
3	Residential / Small Commerical		1.035
4	Commercial		60
5	Industrial		-
6			
7			
3		Total	1,095
9	9d(ii): Gas Delivered		
20 21			
1 2	Number of ICPs at year end	61,079	connections
	Maximum daily load	22,768	(GJ per day)
	Maximum monthly load	483,264	(GJ per month)
:	Number of directly billed ICPs Total gas conveyed	- 3,566,428	(at year end) (GJ per annum)
	Average daily delivery	9,744	(GJ per annum) (GJ per day)
	Average daily derivery	5,744	(or per day)
'			

19. Schedule 10a: Network Reliability and Interruptions

Company Name Powerco Limited				
	For Year Ended		30 September 2016	
			Powerco Limited	
	Network / Sub-network Name		wereo Einneu	
	HEDULE 10a: REPORT ON NETWORK RELIABILITY AND INTERRU			
GDB info	schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI a s must provide explanatory comment on their network reliability for the disclosure year in Schedule 2 rmation is part of audited disclosure information (as defined in section 1.4 of the ID determination), ion 2.8.	14 (Explanatory Notes	to Templates). The S	
sch rej				
8	10a(i): Interruptions			
9	Interruptions by class	Actual		
10	Class A (planned interruptions by GTB)			
11	Class B (planned interruptions on the network)	216		
12	Class C (unplanned interruptions on the network)	457		
13	Class D (unplanned interruptions by GTB)	-		
14 15	Class I (unplanned interruptions caused by third party damage) Total	245 918		
15		918		
16	Number of unplanned outage events (interruptions that affect more than 5 ICPs)	Actual		
17	Wellington	3		
18	Hutt Valley and Porirua	4		
19	Taranaki	1		
20	Manawatu & Horowhenua	-		
21	Hawke's Bay	-		
	Number of undersed subscreening successived by third south democe (interpretions that			
22	Number of unplanned outage events caused by third party damage (interruptions that affect more than 5 ICPs)	Actual		
23	Wellington			
24	Hutt Valley and Porirua	2		
25	Taranaki	-		
26	Manawatu & Horowhenua	-		
27	Hawke's Bay	-		
28	10a(ii): Reliability			
		CAID	CAUT	64151
29	Overall reliability	SAIDI	SAIFI	CAIDI
30	Based on the total number of interruptions	1,406.84	12.48	112.73
31	Class I (unplanned interruptions caused by third party damage)	195.24	2.97	65.80
32	Class B (planned interruptions on the network)	SAIDI	SAIFI	CAIDI
33	Wellington	436.27	4.77	91.54
34	Hutt Valley and Porirua	928.08	3.57	260.13
35	Taranaki	594.46	4.02	147.96
36	Manawatu & Horowhenua	745.12	2.68	278.31
37	Hawke's Bay	-	-	-
38	Class C (unplanned interruptions on the network)	SAIDI	SAIFI	CAIDI
39	Wellington	654.63	7.69	85.11
40	Hutt Valley and Porirua	1,030.23	9.15	112.58
41	Taranaki	349.11	3.80	91.79
42	Manawatu & Horowhenua	71.90	1.46	49.23
43	Hawke's Bay	11.83	0.20	58.00

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Company Name		owerco Limited	
For Year Ended	30 9	September 2016	5
Network / Sub-network Name Central Network			
IEDULE 10a: REPORT ON NETWORK RELIABILITY AND INTERRUP Inchedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI an must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 mation is part of audited disclosure information (as defined in section 1.4 of the ID determination), a	nd CAIDI) for the disclo 4 (Explanatory Notes 1	to Templates). The SA	
10a(i): Interruptions			
Interruptions by class	Actual		
Class A (planned interruptions by GTB)	-		
Class B (planned interruptions on the network)	34		
Class C (unplanned interruptions on the network)	89		
Class D (unplanned interruptions by GTB)	-		
Class I (unplanned interruptions caused by third party damage)	109		
Total	232		
Number of unplanned outage events (interruptions that affect more than 5 ICPs)	Actual		
Taranaki	1		
Manawatu & Horowhenua			
Hawke's Bay	-		
Number of unplanned outage events caused by third party damage (interruptions that affect more than 5 ICPs)	Actual		
Taranaki			
Manawatu & Horowhenua	-		
Hawke's Bay			
10a(ii): Reliability			
Overall reliability	SAIDI	SAIFI	CAIDI
Based on the total number of interruptions	963.31	8.16	118.
Class I (unplanned interruptions caused by third party damage)	182.23	2.90	62.
Class B (planned interruptions on the network)	SAIDI	SAIFI	CAIDI
Taranaki	594.46	4.02	147.
Manawatu & Horowhenua	745.12	2.68	278
Hawke's Bay	-	-	
Class C (unplanned interruptions on the network)	SAIDI	SAIFI	CAIDI
Taranaki	349.11	3.80	91.
Manawatu & Horowhenua	71.90	1.46	49.
	11.83	0.20	58
Hawke's Bay			
Hawke's Bay			

	Company Name	Poy	werco Limited	
	For Year Ended 30 September 2016			
This schedu GDBs must p	JLE 10a: REPORT ON NETWORK RELIABILITY AND INTERRUPTIC le requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and CA provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Ex is part of audited disclosure information (as defined in section 1.4 of the ID determination), and s	AIDI) for the disclosure oplanatory Notes to Ter	mplates). The SAIDI a	
	Da(i): Interruptions			
9	Interruptions by class	Actual		
10	Class A (planned interruptions by GTB)			
11	Class B (planned interruptions on the network)	182		
12	Class C (unplanned interruptions on the network)	368		
13 14	Class D (unplanned interruptions by GTB)	- 136		
14 15	Class I (unplanned interruptions caused by third party damage) Total	686		
15		000		
16	Number of unplanned outage events (interruptions that affect more than 5 ICPs)	Actual		
17	Wellington	3		
18	Hutt Valley and Porirua	4		
19				
20 21				
20 21 22 23	Number of unplanned outage events caused by third party damage (interruptions that affect more than 5 ICPs) Wellington Hutt Valley and Porirua	Actual		
20 21 22 23 24	affect more than 5 ICPs)			
20 21 22 23 24 25	affect more than 5 ICPs) Wellington			
20 21 22 23 24	affect more than 5 ICPs) Wellington			
20 21 22 23 24 25 26 27	affect more than 5 ICPs) Wellington Image: Comparison of the second			
20 21 22 23 24 25 26 27	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Oa(ii): Reliability		SAIFI	CAIDI
20 21 22 23 24 25 26 27 28 1	affect more than 5 ICPs) Wellington Image: Comparison of the second	2	SAIFI 15.62	CAIDI 110.71
20 21 22 23 24 25 26 27 28 10 29	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Hutt Valley and Porirua Da(ii): Reliability Overall reliability	2 SAIDI		
20 21 22 23 24 25 26 27 28 29 30 31	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Ga(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage)		15.62 3.02	110.71 67.89
20 21 22 23 24 25 26 27 28 10 30 31 32	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Hutt Valley and Porirua Oa(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network)		15.62 3.02 SAIFI	110.71 67.89 CAIDI
20 21 22 23 24 25 26 27 28 29 30 31	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Ga(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage)	 2 SAIDI 1,729.20 204.70 SAIDI 436.27	15.62 3.02	110.71 67.89 CAIDI 91.54
20 21 22 23 24 25 26 27 28 29 30 31 32 33	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington		15.62 3.02 SAIFI 4.77	110.71 67.89 CAIDI
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington	 2 SAIDI 1,729.20 204.70 SAIDI 436.27	15.62 3.02 SAIFI 4.77	110.71 67.89 CAIDI 91.54
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington	 2 SAIDI 1,729.20 204.70 SAIDI 436.27	15.62 3.02 SAIFI 4.77	110.71 67.89 CAIDI 91.54
20 21 22 23 24 25 26 27 28 10 30 31 32 33 34 33 34 35 36	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington	 2 SAIDI 1,729.20 204.70 SAIDI 436.27	15.62 3.02 SAIFI 4.77	110.71 67.89 CAIDI 91.54
20 21 22 23 24 25 26 27 28 10 30 31 30 31 32 33 34 35 36 37	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington Hutt Valley and Porirua	2	15.62 3.02 SAIFI 4.77 3.57 4.77	110.71 67.89 CAIDI 91.54 260.13
20 21 22 23 24 25 26 27 28 1 30 31 32 33 34 35 36 37 38	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington Hutt Valley and Porirua Class C (unplanned interruptions on the network)	 SAIDI _	15.62 3.02 SAIFI 4.77 3.57 SAIFI	110.71 67.89 CAIDI 91.54 260.13 CAIDI
20 21 22 23 24 25 26 27 28 10 27 28 30 31 30 31 32 33 34 35 36 37 38 39	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington Hutt Valley and Porirua Class C (unplanned interruptions on the network) Wellington		15.62 3.02 SAIFI 4.77 3.57 3.57 SAIFI SAIFI	110.71 67.89 CAIDI 91.54 260.13 CAIDI 85.11
20 21 22 23 24 25 26 27 28 1 27 28 1 30 30 31 30 31 32 33 34 35 36 37 38 39 40	affect more than 5 ICPs) Wellington Hutt Valley and Porirua Da(ii): Reliability Overall reliability Based on the total number of interruptions Class I (unplanned interruptions caused by third party damage) Class B (planned interruptions on the network) Wellington Hutt Valley and Porirua Class C (unplanned interruptions on the network) Wellington		15.62 3.02 SAIFI 4.77 3.57 3.57 SAIFI SAIFI	110.71 67.89 CAIDI 91.54 260.13 CAIDI 85.11

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20. Schedule 10b: Network Integrity and Consumer Service

		Company Name		owerco Limited	
		For Year Ended		September 201	6
		x / Sub-network Name		owerco Limited	
-	LE 10b: REPORT ON NETWOR	-		SERVICE	
nedule	e requires a summary of the key measures of n	etwork Integrity (gas esca	pes, response time to		
10	b(i): System Condition and In	itegrity			
	Number of confirmed public report	ed			
	gas escapes per system length				
	(escapes/1000 km)	Actual			
	Wellington Hutt Valley and Porirua	127 87			
	Taranaki	64			
	Manawatu & Horowhenua	85			
	Hawke's Bay	8			
	Number of leaks detected by routin	ie			
	survey per system length				
	(leaks/1000 km)	Actual			
	Wellington Hutt Valley and Porirua	5			
	Taranaki	2			
	Manawatu & Horowhenua	4			
	Hawke's Bay	4			
	Number of third party damage ever	nts			
	per system length				
	(events/1000 km)	Actual			
	Wellington Hutt Valley and Porirua	64 70			
	Taranaki	38			
	Manawatu & Horowhenua	78			
	Hawke's Bay	44			
	Number of poor pressure events du	IE Actual			
	to network causes Wellington	Actual			
	Hutt Valley and Porirua	-			
	Taranaki	-			
	Manawatu & Horowhenua	-			
	Hawke's Bay		1		
	Number of telephone calls to				
	emergency numbers answered with	in			
	30 seconds per total number of calls	S Actual			
	All regions	94.80%	The Commerce Comm		
			from reporting this in	itormation by region.	
	Product control—safety of distribut	tion { Actual			
	Number of non-compliant odour tests	-			
10	b(ii): Consumer Service	Proportion of	Proportion of		
		Proportion of emergencies	Proportion of emergencies	Average call	
		responded to	responded to	response time	Number
	Response time to emergencies (RTE)		within 3 hours (%)	(hours)	emergenci
	Wellington	100.00%	100.00%	0.33	
	Hutt Valley and Porirua	100.00%	100.00%	0.34	
		100.0076			
	Taranaki Manawatu & Horowhenua	91.67%	100.00%	0.36	
		91.67% 100.00%	100.00% 100.00%	0.38	
	Manawatu & Horowhenua				

		Company Name	P	owerco Limited	
		For Year Ended		September 201	6
	٨	letwork / Sub-network Name		Central Network	
edule r	E 10b: REPORT ON NETWORK INT equires a summary of the key measures of network Ir (i): System Condition and Integrit	ntegrity (gas escapes, response time			
Ν	Number of confirmed public reported gas e				
	per system length escapes/1000 km)	Actual			
,	Taranaki	64			
	Manawatu & Horowhenua	85			
	Hawke's Bay	8			
N	Number of leaks detected by routine surve	y per			
	system length				
(leaks/1000 km)	Actual			
	Taranaki	2			
	Manawatu & Horowhenua	4			
	Hawke's Bay	4			
	Number of third party damage events per s	system			
	ength	system			
	events/1000 km)	Actual			
``	Taranaki	38			
	Manawatu & Horowhenua	78			
	Hawke's Bay	44			
	Number of poor pressure events due to ne				
	Number of poor pressure events due to ne	twork			
	Number of poor pressure events due to ne causes Taranaki Manawatu & Horowhenua	twork			
c	Number of poor pressure events due to ne causes Taranaki Manawatu & Horowhenua	twork Actual Actual umbers ber of calls Actual 94.80%		nission has granted Po nformation by region	
C N a	Number of poor pressure events due to ne causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total num	twork Actual Act			
с М а 10b(Number of poor pressure events due to netrauses Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency nanswered within 30 seconds per total numl All regions Product control—safety of distribution gas Number of non-compliant odour tests (ii): Consumer Service	twork Actual twork Actual umbers ber of calls Actual 4.200 4.200 Actual	from reporting this in Proportion of emergencies responded to	nformation by region Average call response time	and subnetv
с М а 10b(Number of poor pressure events due to net causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total numl All regions Product control—safety of distribution gas Number of non-compliant odour tests (ii): Consumer Service Response time to emergencies (RTE)	twork Actual twork Actual twork Actual Actual Actual Actual Actual Actual Proportion of emergencies responded to within 1 hour (%)	from reporting this in Proportion of emergencies responded to within 3 hours (%)	nformation by region Average call response time (hours)	and subnet
с М а 10b(Number of poor pressure events due to net causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total numl All regions Product control—safety of distribution gas Number of non-compliant odour tests (ii): Consumer Service Response time to emergencies (RTE) Taranaki	twork Actual twork Actual twork Actual Actual Actual Actual Actual Proportion of emergencies responded to within 1 hour (%) 100.00%	from reporting this in Proportion of emergencies responded to within 3 hours (%) 100.00%	Average call response time (hours) 0.58	and subnetv
с М а 10b(Number of poor pressure events due to net causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total numl All regions	twork twork Actual twork Actual twork Actual Ac	From reporting this in Proportion of emergencies responded to within 3 hours (%) 100.00% 100.00%	Average call response time (hours) 0.58 0.36	and subnets
с М а 10b(Number of poor pressure events due to net causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total numl All regions Product control—safety of distribution gas Number of non-compliant odour tests (ii): Consumer Service Response time to emergencies (RTE) Taranaki	twork Actual twork Actual twork Actual Actual Actual Actual Actual Proportion of emergencies responded to within 1 hour (%) 100.00%	from reporting this in Proportion of emergencies responded to within 3 hours (%) 100.00%	Average call response time (hours) 0.58	and subnets
с М а 10b(Number of poor pressure events due to net causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total numl All regions	twork twork Actual twork Actual twork Actual Ac	From reporting this in Proportion of emergencies responded to within 3 hours (%) 100.00% 100.00%	Average call response time (hours) 0.58 0.36	
с Р а 10b(F	Number of poor pressure events due to net causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total numl All regions	twork twork Actual twork Actual A	From reporting this in Proportion of emergencies responded to within 3 hours (%) 100.00% 100.00%	Average call response time (hours) 0.58 0.36	and subnetv Number
с Р а 10b(F	Number of poor pressure events due to net causes Taranaki Manawatu & Horowhenua Hawke's Bay Number of telephone calls to emergency n answered within 30 seconds per total numl All regions	twork twork Actual twork Actual Actual A	From reporting this in Proportion of emergencies responded to within 3 hours (%) 100.00% 100.00%	Average call response time (hours) 0.58 0.36	and subnet

		Company Name		Powerco Limited	
		For Year Ended		O September 201	.6
		work / Sub-network Name		Lower Network	
edule requir 10b(i): Num per s (esca	Ob: REPORT ON NETWORK INTEG res a summary of the key measures of network Integ System Condition and Integrity uber of confirmed public reported gas eso system length apes/1000 km) Wellington Hutt Valley and Porirua	capes Actual 127 87 127 87 127 127 127 127			
-	em length ss/1000 km)	Actual			
	Wellington	5			
	Hutt Valley and Porirua	11			
	hor of third ports downers were to a	stom	1		
	ber of third party damage events per sys	stem			
leng (eve	nts/1000 km)	Actual			
	Wellington	64]		
	Hutt Valley and Porirua	70			
l l					
-					
E					
Num	ber of poor pressure events due to netw	vork			
Num		vork Actual			
caus	es Wellington]		
caus	es				
caus	es Wellington				
caus	es Wellington				
caus	es Wellington Hutt Valley and Porirua uber of telephone calls to emergency nun vered within 30 seconds per total numbe	Actual			
caus	es Wellington Hutt Valley and Porirua beer of telephone calls to emergency num	Actual	1	nission has granted F	
caus	es Wellington Hutt Valley and Porirua uber of telephone calls to emergency nun vered within 30 seconds per total numbe	Actual	1	nission has granted P nformation by region	
caus	es Wellington Hutt Valley and Porirua uber of telephone calls to emergency nun vered within 30 seconds per total numbe	Actual	1	-	
caus	es Wellington Hutt Valley and Porirua uber of telephone calls to emergency nun vered within 30 seconds per total numbe	Actual	1	-	
caus	es Wellington Hutt Valley and Porirua uber of telephone calls to emergency nun vered within 30 seconds per total numbe	Actual	1	-	
Caus	es Wellington Hutt Valley and Porirua wher of telephone calls to emergency num vered within 30 seconds per total numbe All regions	Actual	1	-	
Caus	es Wellington Hutt Valley and Porirua uber of telephone calls to emergency nun vered within 30 seconds per total numbe	Actual	1	-	
Caus	es Wellington Hutt Valley and Porirua wher of telephone calls to emergency num vered within 30 seconds per total numbe All regions	Actual Actual	1	-	
Caus	es Wellington Hutt Valley and Porirua aber of telephone calls to emergency nun vered within 30 seconds per total numbe All regions luct control—safety of distribution gas	Actual Actual	1	-	
Caus	es Wellington Hutt Valley and Porirua aber of telephone calls to emergency nun vered within 30 seconds per total numbe All regions luct control—safety of distribution gas	Actual Actual	1	-	
Caus	es Wellington Hutt Valley and Porirua aber of telephone calls to emergency nun vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests	Actual Actual	from reporting this i Proportion of	nformation by region	
Caus	es Wellington Hutt Valley and Porirua aber of telephone calls to emergency nun vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests	Actual Actual	from reporting this i Proportion of emergencies	nformation by region	and sub-network
Caus	es Wellington Hutt Valley and Porirua aber of telephone calls to emergency nun vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests	Actual Actual	from reporting this i Proportion of	nformation by region	
Caus	es Wellington Hutt Valley and Porirua wered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests Consumer Service	Actual Actual	from reporting this i Proportion of emergencies responded to	nformation by region Average call response time	and sub-network
Caus	es Wellington Hutt Valley and Porirua wher of telephone calls to emergency num vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests Consumer Service ponse time to emergencies (RTE)	Actual Actual	from reporting this i Proportion of emergencies responded to within 3 hours (%)	nformation by region Average call response time (hours)	and sub-network
Caus	es Wellington Hutt Valley and Porirua wher of telephone calls to emergency num- vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests Consumer Service conse time to emergencies (RTE) Wellington	Actual Actual	Proportion of emergencies responded to within 3 hours (%) 100.00%	nformation by region Average call response time (hours) 0.33	and sub-network
Caus	es Wellington Hutt Valley and Porirua wher of telephone calls to emergency num- vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests Consumer Service conse time to emergencies (RTE) Wellington	Actual Actual	Proportion of emergencies responded to within 3 hours (%) 100.00%	nformation by region Average call response time (hours) 0.33	and sub-network
Caus	es Wellington Hutt Valley and Porirua wher of telephone calls to emergency num- vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests Consumer Service conse time to emergencies (RTE) Wellington	Actual Actual	Proportion of emergencies responded to within 3 hours (%) 100.00%	nformation by region Average call response time (hours) 0.33	and sub-network
Caus	es Wellington Hutt Valley and Porirua wher of telephone calls to emergency num- vered within 30 seconds per total numbe All regions luct control—safety of distribution gas nber of non-compliant odour tests Consumer Service conse time to emergencies (RTE) Wellington	Actual Actual	Proportion of emergencies responded to within 3 hours (%) 100.00%	nformation by region Average call response time (hours) 0.33	and sub-networ Number of emergencies

21. Schedule 14: Mandatory Explanatory Notes

Schedule 14 contains mandatory explanatory notes required by the IDD. All clause references refer to the Gas Distribution Information Disclosure Determination 2012

21.1 Return on Investment (Schedule 2)

This box comments on return on investment as disclosed in Schedule 2. It includes information on reclassified items in accordance with clause 2.7.1(2).

Box 1: Explanatory comment on return on investment

Powerco's disclosed ROI under both a Vanilla and Post tax approach for 2016 is lower than 2015. Primarily this is a result of a decrease in operating surplus and a higher depreciation charge for 2016.

21.2 Regulatory Profit (Schedule 3)

This box comments on regulatory profit for the disclosure year and includes-

- a. a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3
- b. information on reclassified items in accordance with clause 2.7.1(2).

Box 2: Explanatory comment on regulatory profit

Other regulatory income includes recoveries from consumers for operational activities and the recovery of bad debts.

There have been no reclassified items.

Merger and acquisition expenses (Schedule 3(iv))

Information on merger and acquisitions expenditure during the disclosure year is provided below and includes—

- a. information on reclassified items in accordance with clause 2.7.1(2)
- b. any other commentary on the benefits of the merger and acquisition expenditure to the GDB.

Box 3: Explanatory comment on merger and acquisition expenditure

The business support operational expenditure category includes merger and acquisition expenditure of \$156k.

As opportunities arise, Powerco considers the purchase of assets or the merger/acquisition of assets aligned to our business. In DY15/DY16 the opportunity arose to bid for Vector's gas transmission assets and non-Auckland distribution assets. These assets were considered a good fit with Powerco's existing business and would enable Powerco to gain synergies from merging its current assets with those offered for sale. The \$156k of costs incurred in DY16 relate to the distribution business portion of Powerco's investigation and due diligence work prior to tendering for the assets.

Although Powerco was not successful in its bid for these assets, residual benefits are expected to accrue from the process. A number of independent experts were commissioned to support the Powerco tender and their perspectives on the long term outlook for the market and regulatory environment of the gas sector will be valuable to the business in supporting

future strategic planning. The process also required the business to undertake a targeted review of efficiency and growth opportunities for Powerco's gas business, with the results of the review informing Powerco's future plans.

21.3 Value of the Regulatory Asset Base (Schedule 4)

The comments below refer to the value of the regulatory asset base (rolled forward) in Schedule 4 and include information on reclassified items in accordance with clause 2.7.1(2).

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

The Regulatory Asset Base (RAB) has increased by \$3.560m during the 2016 disclosure year.

During the 2016 disclosure year Powerco has recategorised \$5.584m of commissioned assets that were classified as Other Network Assets in the 2015 disclosure. The individual assets, while in use, had not been added at the asset detail level to the fixed asset register. The detail for these assets was subsequently added to the fixed asset register in 2016 and transferred to the appropriate category.

As required by clause 2.7.2(2) of the 2012 information disclosure determination, we provide the following information.

- a) The nature of the assets reclassified were commissioned pipeline, valve and station assets that had been categorised as Other Network Assets
- b) The total value for these assets reported for the item in DY15 was \$5.584m
- c) The total value for these assets reported for the item in DY16 is \$5.584m
- d) In DY15 these assets had been allocated against Other Network Assets
- e) During DY16 these assets were correctly reclassified as follows
 - Intermediate pressure main pipeline: \$0.764m
 - Medium pressure main pipeline: \$2.552m
 - Low pressure main pipeline: \$0.069m
 - Service pipe: \$1.328m
 - Stations: \$0.608m
 - Line valve: \$0.225m
 - Special crossings \$0.038m

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

This narrative provides descriptions and workings of the material item recorded in the asterisked categories in of 5a(i) of Schedule 5a -

- a. Income not included in regulatory profit / (loss) before tax but taxable
- b. Expenditure or loss in regulatory profit / (loss) before tax but not deductible
- c. Income included in regulatory profit / (loss) before tax but not taxable
- d. Expenditure or loss deductible but not in regulatory profit / (loss) before tax

Box 5: Regulatory tax allowance: permanent differences

Permanent differences are comprised of entertainment \$34,000 and merger & acquisition

costs \$156,000.

A revaluation gain on RAB of \$1,445,000 included in Regulatory Profit is not taxable.

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

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

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

Temporary differences relate to the movement in provision for ACC (\$23,000) and employee entitlements of (\$1,000).

21.6 Related party transactions: disclosure of related party transactions (schedule 5b)

Related party transactions beyond those disclosed in Schedule 5b are described below. This includes identification and descriptions as to the nature of directly attributable costs disclosed under clause 2.3.6(2)(b).

Box 7: Related party transactions

There were no related party transactions in the 2016 disclosure year.

21.7 Cost allocation (Schedule 5d)

Comments on cost allocation as disclosed in Schedule 5d are set out below, including information on any reclassified items in accordance with clause 2.7.1(2).

Box 8: Cost allocation

Powerco has adopted a fully distributed cost approach to allocate shared costs and shared assets between Powerco's gas distribution business and electricity distribution business.

Costs have been allocated on the following basis:

- a) Direct allocation of all expenses which are directly attributable to the specific business
- b) For any expense items that are not directly attributable to a specific business, costs have been allocated between the businesses using allocators that are based on key cost drivers such as directly allocated revenue, employee numbers and the carrying value of network fixed assets

There were no changes in allocators in DY16.

There have been no reclassified items in accordance with clause 2.7.1(2) during DY16.

21.8 Asset allocation (Schedule 5e)

Comments on asset allocation as disclosed in Schedule 5e are set out below, including information on any reclassified items in accordance with clause 2.7.1(2).

Box 9: Commentary on asset allocation

Non-network assets have been allocated to the regulatory asset base (RAB) based on the split of accounting net book value between electricity and gas businesses.

During the 2016 Disclosure Year there have been no reclassified items affecting asset allocation. Powerco has recategorised \$5.584m of assets. The details of this reclassification required by clause 2.7.1 (2) are provided in box 4.

21.9 Capital Expenditure for the Disclosure Year (Schedule 6a)

The box below includes comment on capital expenditure for the disclosure year, as disclosed in Schedule 6a. This comment includes—

- a. a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
- b. information on reclassified items in accordance with clause 2.7.1(2).

Box 10: Explanation of capital expenditure for the disclosure year

1. Materiality threshold

A materiality threshold of \$100k has been applied to identify material projects and programmes listed in schedule 6a. Network projects or programmes of work have also been considered material if their costs make up 40 percent or more of the total costs in the expenditure category or 10% or more of the total costs in the other reliability, safety and environment category.

Expenditure Category	Threshold
Asset relocations	Projects exceed 40% of the total costs for that category in the disclosure year
Quality of supply Other Network capex	Project costs exceed \$100k in the disclosure year
Other reliability, safety and environment	Projects greater than 10% of total costs for that category in the disclosure year

2. Reclassified items

There have been no reclassified items in accordance with clause 2.7.1(2) during DY16.

As Powerco continues to refine its processes improvements in the level of information provided are expected and in DY16 capital contributions have been applied against the appropriate capex cost category. In prior years contributions have been applied in total to consumer connection capex.

There was a correction made in DY16 to transfer \$190k of the 'HAB IP Valve Safety Improvement project' into 'Other Reliability and Safety'. In DY15 this project was incorrectly included in 'Asset Replace Renewal –Intermediate Pressure Line Valve'.

21.10 Operational Expenditure for the Disclosure Year (Schedule 6b)

The box below contains commentary on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment includes—

- a. Commentary on assets replaced or renewed with asset replacement and renewal operating expenditure, as reported in 6b(i) of Schedule 6b;
- b. Information on reclassified items in accordance with clause 2.7.1(2);
- c. Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, including the value of the expenditure, the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

Box 11: Explanation of operation expenditure for the disclosure year

1. Asset Replacement and Renewal

Powerco had asset replacement and renewal expenditure of \$2.5m for the 2016 disclosure period.

Powerco considers replacement and renewal maintenance to be operating expenditure where the primary driver is the maintenance of asset integrity to address the progressive deterioration or obsolescence of particular assets, or the need to maintain physical security.

Powerco interprets asset replacement and renewal maintenance to include defect remedy of a non-routine nature which requires the replacement of assets or asset subcomponents in order to maintain the asset in its current state, but do not meet the thresholds of our capitalisation policy.

2. Reclassified Items

There were no reclassified items in the 2016 disclosure year.

3. Atypical Expenditure

In DY15 and DY16 Powerco investigated the possibility of purchasing Vector's non-Auckland gas assets. While Powerco was not successful in the tender process for these assets, \$156k of costs were incurred in the 2016 disclosure year relating to the due diligence process and eventual tender for these assets. This is considered atypical expenditure for Powerco. These costs are included in the Business Support cost category for DY16.

21.11 Variance between forecast and actual expenditure (Schedule 7)

This section comments 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

Total reported "Expenditure on assets (7(ii))" is below the forecast provided in the Gas Asset management Plan (the "AMP") published in September 2015. Total "Operational Expenditure (7(iii)" is in line with the forecast.

Some movement in expenditure between categories has occurred. The reasons for variances are noted below and commentary is provided for each category showing a forecast to actual variance of greater than 5% (subject to being material in dollar terms).

Network Capex

Overall expenditure on network assets is \$2,844k below the 2015 AMP forecast.

Our delivery programme slipped significantly in the second half of DY16 due to a number of factors outside our direct control, including shortages of field resources, pipe material and clashes with other infrastructure projects. The programme slippage contributed to capital expenditure being below forecast. Other factors also contributed to the lower capital expenditure:

- a) Lower than forecast subdivision growth (outside Powerco's control)
- b) Deferral of some projects where more detailed analysis and/or evidence to support the investment were necessary
- c) Lower cost project delivery through improved contracting and execution strategies
- d) Changes in project scope and design changes to enable a lower cost solution

In the paragraphs below, we explain the variance for each expenditure category.

Customer Connection

The customer connection category is 22% over forecast. This is due to a higher number of residential and small commercial connections, predominantly on our existing network. In our forecast, we accounted for a total of 1,401 connections in this category (as per schedule 12c). In the same period, we connected 1,737 customers, which is consistent with the increase in expenditure.

This increased number of customer connections contributed to the shortage of field resources to deliver other planned projects.

System Growth

The system growth category is 61% (\$1,091k) under forecast. This is primarily due to the lower than anticipated subdivision activity:

- a) Our 2015 AMP forecast included approximately \$150k to support the development of Maymorn Valley through design studies. Development of the Maymorn Valley has been further deferred and consequently the design related expenditure was not required.
- b) We planned to construct a new point of supply to the Hokowhitu suburb of Palmerston North to support growth in the area and had allocated \$330k for this project. As part of our continuous network monitoring and modelling, we determined that the rate of growth in this area did not require the investment at this stage.
- c) General subdivision activity on our footprint was lower than expected and this contributed to approximately \$500k lower expenditure. Expenditure on system growth to support subdivision growth is reactive and subject to developers' activity. While there was lower than expected subdivision activity, there was higher than expected connection growth on our existing network.

Asset Replacement and Renewal

The asset replacement and renewal category is 17% (\$368k) under forecast. This is due to the following:

- a) Some projects were delayed to allow coordination with other utilities.
- b) Our contracting and execution strategy for the renewal of pre-85 pipework has resulted in efficiencies.

Asset Relocations

The asset relocation category is 83% (\$189k) under forecast. Asset relocations are reactive, initiated by an external party. In the 2015 AMP, we budgeted for roading projects in New

Plymouth (Northgate Road) and Wellington (Transmission Gully). The impact of these roading projects on our assets was less than anticipated.

Quality of Supply

The quality of supply category is 64% (\$2,263k) under forecast largely due to delays outside of Powerco's control:

- a) The delay in the Palmerston North Eastern Reinforcement project, with approximately \$1.3m deferred to RY17. We have experienced two consecutive delays in this project:
 - A national shortage of pipe, due to another gas distribution business acquiring a larger than usual quantity of pipe, impacted the start of this project by almost three months.
 - A failure of a high voltage electricity cable in Palmerston North resulted in the gas pipeline project being put on hold while a new electricity cable was built in the alignment planned for the gas pipeline. This delayed the completion date by a further two to three months.
- c) The completion of the first pressure increase project in Wellington CBD was under budget by approximately \$200k. The number of leak repairs needed was lower than forecast.
- d) The start of the second pressure increase project planned in Wellington CBD was delayed due to change in staff, and resource shortages with our main service provider. This delay resulted in approximately \$300k being deferred to RY17.
- e) The Westown capacity reinforcement was delivered for approximately \$150k under budget due to design changes to enable a lower cost solution.

Other Reliability, Safety and Environment

The other reliability, safety and environment category is over forecast by 7% (\$179k). This is due to an increase in the cost of the Hutt River Crossing project, partially offset by the reduction in the delivery cost of the DRS protection programme.

Non-network capex

Expenditure in this category was \$977k below forecast for the period. The variance resulted primarily from the deferral of four projects:

- The upgrade of the network operations centre has been deferred to DY17 (approx. \$440k)
- Progress with a proposed Enterprise Asset Management (EAM) solution was delayed pending further investigation work (approx. \$160k)
- Proposed system improvements within the Billing and ICP Management functions have been deferred pending the outcome the of the EAM investigation work (approx. \$120k)
- Proposed work to assess and improve asset data quality within Powerco has been deferred pending the outcome of the EAM investigation work (approx. \$80k)

Operational Expenditure

Network Operational expenditure for DY16 of \$5.21m is largely in line with the AMP forecast for the year of \$5.36m. Non network operational expenditure for DY16 of \$11.03m is higher than forecast (\$10.61m) due to higher system operations and network support expenditure, largely due to lower cost capitalisation recovery resulting from lower than planned capital

expenditure.

There have been no further material variances to forecast in dollar terms.

21.12 Information relating to revenues and quantities for the disclosure year

Commentary in the box below explains the reasons for any material differences between target revenue disclosed before the start of the pricing year in accordance with clauses 2.4.1 and 2.4.3(3), and total billed line charge revenue for the disclosure year as disclosed in Schedule 8.

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

Target revenue for the disclosure period was 0.62% higher than actual total billed line charges. The milder winter experienced in this disclosure year has led to a decrease in overall energy conveyed for the period and a resulting decrease in revenue from that forecast for the period.

Commentary in the box below explains the effect of any change in price category codes, or consumer groups (as applicable) in the disclosure year, on the allocation of ICPs, quantities and revenues between consumer groups disclosed in Schedule 8.

Box 14: Explanatory comment relating to changed price category codes or consumer groups

Other than the CPI adjustment to distribution prices effective 1 October 2015, as permitted under the DPP, there have been no changes to prices or price category codes in this disclosure year.

21.13 Network Reliability for the disclosure year (Schedule 10a)

The box below provides commentary on network reliability for the disclosure year, as disclosed in Schedule 10a.

Box 15: Commentary on network reliability for the disclosure year

The total number of interruptions experienced on Powerco's network decreased in number in DY16. This decrease of 259 total interruptions (or 22%) from the 2015 regulatory year was driven by the reduced number of unplanned interruptions (Class C) this year.

Unplanned interruptions caused by a third party (Class I) has decreased by 2%.

Unplanned interruptions that affected more than 5 consumers increased from 5 in DY15 to 8 in DY16. This increase is not considered material given a customer base of over 100,000.

Planned interruptions increased from 199 in DY15 to 216 in DY16. Powerco undertook several large mains renewal projects in DY16 which contributed to this increase. Projects of this nature require customers to be without gas for a full working day at a time to ensure the safety of both the public and contractors working on the network.

Total SAIDI increased from 883.94 minutes in DY15 to 1,406.84 minutes in DY16. Actual SAIDI and SAIFI results are multiplied by 1000 for reporting purposes, so the actual SAIDI increase is only 0.5 minutes per customer per annum.

As discussed in our 2016 Gas Asset Management Plan, SAIDI can vary dramatically from year to year which makes short-term trend analysis potentially misleading. Gas networks are inherently secure because they are underground. When an outage does occur, however, the time to reinstate can be long because it requires the careful purging of the network and re-

commissioning of each customer. Powerco's network does not incur many interruptions and therefore SAIDI and SAIFI metrics are sensitive to even a small change in the number of interruptions.

21.14 Insurance Cover

Details of insurance cover for the assets used to provide gas distribution services are given below, including—

- a. The GDB's approaches and practices in regard to the insurance of assets used to provide gas distribution services, including the level of insurance;
- b. In respect of any self-insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 16: Explanation of insurance cover

Powerco holds insurance cover for material damage and business interruption, targeted at key assets. This includes full cover for buildings and contents, IS server equipment, gas district regulating stations and selected special bridge crossings.

Powerco's insurance strategy strikes a balance between providing the benefit to its customers of accessing material damage insurance cover that is available, and the practical imperative of managing the associated cost burden to customers. Cover for poles, wires and pipes (commonly referred to as transmission and distribution cover) is, for all practical purposes, unavailable in NZ. Where it may be available in small amounts in our geographic region, the cost is uneconomic to our customers, as there is a restricted retained limit and a premium cost of 10-15% of the sum insured.

To manage Powerco's exposure to a catastrophic event affecting its uninsured assets, the company maintains headroom in its debt facilities, in excess of net (drawn) debt, that would be available for use should an event occur. This headroom amount is in excess of our day-to-day working capital requirements.

The value of this facility headroom, currently \$70 million, takes into account an assessment of the uninsured damage to Powerco's network assets undertaken by Marsh Risk Consulting. This analysis reviewed the catastrophic risk and expected loss from a catastrophic event, and was last assessed at \$50-70 million.

The geographically diverse nature of Powerco's assets, and the resilience of those assets, also provides some practical mitigation of seismic risks.

Insurance costs are allocated to Powerco's separate businesses following Powerco's allocation policies discussed earlier in this document.

21.15 Amendments to previously disclosed information

Information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:

- a. a description of each error; and
- b. for each error, a reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 17: Disclosure of amendment to previously disclosed information

There have been no amendments to previously disclosed information made in accordance with clause 2.12.1.

22. Schedule 15: Voluntary Explanatory Notes

This section includes notes, which supplement the mandatory notes set out in Schedule 14, and provides additional information to aid understanding of the required disclosure schedules.

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

22.1 Analytical Ratios

Effect of merger and acquisition expenditure

The atypical merger and acquisition expenditure Powerco incurred in DY15 has had an effect on the operational expenditure ratios in section 1(i) of schedule 1. These ratios would be lower had Powerco not incurred merger and acquisition costs.

22.2 Financial Schedules

Monthly ROI

The calculation of monthly ROI in schedule 2 is not required in 2016. The IDD specifies that a monthly ROI calculation must only be disclosed if, during the first three months or last three months of the disclosure year, the value of assets commissioned exceeded 10% of total opening regulatory asset values or the notional net cash flows exceed 40% of the annual notional net cash flows.

Neither of these criteria were met in 2016 and Powerco has elected not to calculate a monthly ROI.

Weighted Average Remaining Useful Life

Opening RAB values are used to weight the average remaining useful life. Powerco does not currently have systems to maintain our RAB at an individual asset level. We have made an assumption to determine individual opening RAB values by applying each asset's financial asset register Net Book Value to generate the Weighted Average Remaining Useful Life as disclosed in Schedule 4(vii).

Regulatory depreciation

Depreciation in Schedule 4 includes depreciation on assets with no standard life. Non-network assets commissioned after 30 September 2009 are considered to be assets with no standard life. Depreciation on these assets is reported as "depreciation – no standard life" in segment 4(v) of Schedule 4.

22.3 Billed Quantities and Revenues (Schedule 8)

Consumer types

Powerco has identified four consumer types that are typical of the consumers connected to our network and described in table one below.

Table 1: Typical consumers in the different consumer categories

Consumer type	Price category	Typical characteristics
Residential	G06	Low-volume residential customers.

Consumer type	Price category	Typical characteristics
Residential/Small Commercial	G11	Standard residential customers and small commercial customers such as small cafes, fish and chip stores and pizza stores.
Commercial	G12 to G18	Commercial consumers are diverse in nature and include restaurants, office buildings and small industries.
	G30	Individually priced customers who do not have a time of use (TOU) meter, e.g. large commercial customers and large hotels.
Industrial	G40	Individually priced customers with a TOU meter and with an annual volume generally greater than 10TJ. Included in this group tend to be small manufacturing and industrial businesses such as dairy, meat or food processing plants.

For the purposes of schedule 9d, new connections for the G06 and G11 groups are reported together under the consumer type "residential/small commercial".

22.4 Asset Information (Schedule 9a-9c)

Sources of information

Powerco's network is made up of several discrete, legacy gas distribution networks that have been amalgamated over time. This diversity of networks has created ongoing data and systems integration and improvement challenges for Powerco.

Schedules 9a and 9b require Powerco to estimate a level of accuracy around the presented results, which are drawn from the GIS. The underlying GIS data comprises a comprehensive set of network information that is generally complete and consistently applied. However, a small proportion of the asset data is either internally conflicting or not wholly reliable and, for a small number of asset categories, there are also gaps in the attribute information. These data inconsistencies and data gaps are not material for disclosure purposes. However, for completeness, Powerco has noted these issues in the data accuracy column in schedule 9a.

Powerco initiated a programme of work focused on incremental improvements to data quality and depth. Further information on this programme of work is available in section 8.8 of Powerco's Gas Asset Management Plan 2015 available on our website or by request.

The asset age profile (schedule 9b) includes some unknown references in the cathodic protection asset class.

In preparation for the ODV calculation in 2005 and 2006, Powerco reviewed asset dates and verified dates where previously there were default dates. Therefore no assets with default dates are recorded on the gas network. Further investigation into line valves operating pressure has increased asset knowledge and resulted in a transfer of line valves between pressure categories.

Network Asset Categorisation

The programmes we have put in place to ensure on-going improvement of asset data overtime, means that from time to time we re-categorise small numbers of assets to reflect the latest available data.

2016 Valve data project

In 2016 Powerco conducted a project to improve valve location and condition data. This project identified some valves that could not be located or were inoperable and some valves that were not previously recorded. The net effect was an overall decrease in total live valve numbers of 98.

Network Asset Classification

The programmes we have put in place to ensure on-going improvement of asset data overtime, means that from time to time we re-classify small numbers of assets to reflect the latest available data.

22.5 Network Demand (Schedule 9d)

ICP numbers

There has been a net increase of 854 billable ICPs during 2016. While 1,737 new connections have been added to the network, 883 ICPs have either become inactive or have disconnected from the network in 2016.

Network demand

Section 9d(ii) – gas delivered measures the amount of gas entering the network (i.e. as measured at the respective gas gates) during the disclosure year. The gas delivered to ICPs in schedule 8 is the billed quantity of gas in the disclosure year which includes a loss adjustment calculated from the UFG recorded in the prior year.

22.6 Network reliability, integrity and customer service (Schedule 10a and 10b)

Customer service – telephone calls

The IDD requires the disclosure of the number of phone calls to the emergency line answered within 30 seconds as a percentage of total calls to the emergency line.

Powerco is unable to disclose this result by region or sub-network. Operationally, all calls to Powerco's emergency number are answered at a single location and all calls are treated equally regardless of the originating region. In most cases the network region for an incoming call cannot be determined from the call log. Determining the location of the incoming call is made especially difficult when calls are received from cell phones.

As a result, Powerco has reported this metric on a whole of business basis for all regions and subnetworks as permitted by the Commerce Commission's exemption issued under clause 2.11.1(1) of the IDD on 18 August 2016.

Customer service – response time to emergencies (RTE)

Response Time to Emergency (RTE) forms the quality measures under which our Default Quality Price Path apply. Whilst the number of emergencies has increased this year, we have consistently been meeting our regulatory target of responding to at least 80% of emergencies within one hour, and 100% within three hours.

Directors' Certificate for Year End Disclosures

CERTIFICATE FOR YEAR-END DISCLOSURES

Pursuant to clause 2.9.3 of Section 2.9

We, <u>Joth LOUGHLIN</u>, and <u>IAUL CALLOW</u>, being directors of Powerco 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, 2.3.2, 2.4.21, 2.4.22, 2.5.1, 2.5.2 and 2.7.1 of the Gas Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and
- b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d,10a, 10b and 14 has been properly extracted from Powerco Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained.

Director

Director

Rona LOIT

2017 Rona

Date

Date



INDEPENDENT AUDITOR'S REPORT

TO THE DIRECTORS OF POWERCO LIMITED AND THE COMMERCE COMMISSION REPORT ON THE DISCLOSURE INFORMATION

We have been engaged by the Board of Directors of Powerco Limited ('the Company') to conduct a reasonable assurance engagement to provide an opinion on whether schedules 1, 2, 3, 4, 5a-5g, 6a, 6b, 7, 10a, 14 (boxes 1 to 12) for the disclosure year ended 30 September 2016 ('the Disclosure Information') of the Company have been prepared, in all material respects, in accordance with the Gas Distribution Information Disclosure Determination 2012 and all its subsequent amendments ('the Determination').

Responsibilities of the Board of Directors for the Disclosure Information

The Board of Directors is responsible for the preparation of the Disclosure Information in accordance with the Determination, and for such internal control as the Board of Directors determine is necessary to enable the preparation of the Disclosure Information that is free from material misstatement, whether due to fraud or error.

Auditor's responsibility

Our responsibility is to express an opinion on whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination.

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000: *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information* and the Standard on Assurance Engagements 3100: *Compliance Engagements* issued by the External Reporting Board.

An audit involves performing procedures to obtain evidence about the amounts and disclosures in the Disclosure Information. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the Disclosure Information, whether due to fraud or error or non-compliance with the Determination. In making those risk assessments, the auditor considers internal control relevant to the Company's preparation of the Disclosure Information in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control.

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

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.

Our Independence and Quality Control

We have complied with the independence and other ethical requirements of the Professional and Ethical Standard 1 (Revised): Code of Ethics for Assurance Practitioners issued by the New Zealand

Deloitte.

Auditing and Assurance Standards Board, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Other than in our capacity as auditor, we have no relationship with or interests in the Company.

We have complied with the Independent Auditor provisions specified in clause 1.4.3 of the Determination.

The firm applies Professional and Ethical Standard 3 (Amended): *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance Engagements* issued by the New Zealand Auditing and Assurance Standards Board, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Opinion

We have obtained all the information and explanations we have required.

In our opinion:

- As far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information have been kept by the Company;
- As far as appears from an examination of the records, the information used in the preparation of the Disclosure Information 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 Disclosure Information is prepared, in all material respects, in compliance with the Determination.

Restriction on Distribution and Use

This report is provided solely for your exclusive use and solely for the purpose of providing you with independent audit assurance whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination. Our report is not to be used for any other purpose, recited or referred to in any document, copied or made available (in whole or in part) to any other person without our prior written express consent. We accept or assume no duty, responsibility or liability to any other party in connection with the report or this engagement, including without limitation, liability for negligence in relation to the opinion expressed in this report.

Deloitte Limited

Chartered Accountants 10 February 2017 Wellington, New Zealand

This reasonable assurance report relates to the Disclosure Information of Powerco Limited for the year ended 30 September 2016 included on Powerco Limited's website. The Board of Directors are responsible for the maintenance and integrity of the Company's website. We have not been engaged to report on the integrity of the Company's website. We accept no responsibility for any changes that may have occurred to the Disclosure Information since they were initially presented on the website. The reasonable assurance report refers only to the Disclosure Information named above. It does not provide an opinion on any other information which may have been hyperlinked to/from this Disclosure Information. If readers of this report are concerned with the inherent risks arising from electronic data communication they should refer to the published hard copy of the Disclosure Information and related reasonable assurance report dated 10 February 2017 to confirm the information included in the Disclosure Information presented on this website.