



**EDB Information Disclosure Requirements
Information Templates
for
Schedules 11a–13**

Company Name	<input type="text" value="Westpower Limited"/>
Disclosure Date	<input type="text" value="31 March 2014"/>
AMP Planning Period Start Date (first day)	<input type="text" value="1 April 2014"/>

Templates for Schedules 11a–13 (Asset Management Plan)
Template Version 3.0. Prepared 13 December 2013

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Schedule Description

Asset Management Plan Schedule Templates

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Company Name **Westpower Limited**
 AMP Planning Period **1 April 2014 – 31 March 2024**

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

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

sch ref

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
	for year ended 31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24
11a(i): Expenditure on Assets Forecast	\$000 (in nominal dollars)										
Consumer connection	90	95	105	117	130	144	159	176	195	216	225
System growth	464	396	437	483	533	588	651	719	795	878	918
Asset replacement and renewal	1,553	1,182	1,144	925	909	1,058	638	2,009	1,901	1,108	1,220
Asset relocations	-	-	-	-	-	-	-	-	-	-	-
Reliability, safety and environment:											
Quality of supply	434	510	701	634	537	646	678	711	683	684	700
Legislative and regulatory	-	-	-	-	-	-	-	-	-	-	-
Other reliability, safety and environment	179	190	180	143	244	161	2,374	187	198	209	219
Total reliability, safety and environment	613	700	881	777	781	807	3,052	898	881	893	919
Expenditure on network assets	2,720	2,373	2,568	2,302	2,353	2,597	4,500	3,803	3,772	3,096	3,282
Non-network assets											
Expenditure on assets	2,720	2,373	2,568	2,302	2,353	2,597	4,500	3,803	3,772	3,096	3,282
plus Cost of financing											
less Value of capital contributions											
plus Value of vested assets											
Capital expenditure forecast	2,720	2,373	2,568	2,302	2,353	2,597	4,500	3,803	3,772	3,096	3,282
Value of commissioned assets	2,720	2,373	2,568	2,302	2,353	2,597	4,500	3,803	3,772	3,096	3,282
	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
	for year ended 31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24
	\$000 (in constant prices)										
Consumer connection	90	95	101	107	114	120	128	135	143	152	152
System growth	464	396	418	442	467	493	523	552	584	618	618
Asset replacement and renewal	1,553	1,182	1,095	847	796	887	512	1,543	1,397	779	821
Asset relocations	-	-	-	-	-	-	-	-	-	-	-
Reliability, safety and environment:											
Quality of supply	434	510	671	581	471	542	544	546	502	481	471
Legislative and regulatory	-	-	-	-	-	-	-	-	-	-	-
Other reliability, safety and environment	179	190	172	131	214	135	1,905	144	146	147	147
Total reliability, safety and environment	613	700	843	712	685	677	2,449	689	647	628	618
Expenditure on network assets	2,720	2,373	2,457	2,108	2,062	2,178	3,611	2,920	2,772	2,177	2,208
Non-network assets	-	-	-	-	-	-	-	-	-	-	-
Expenditure on assets	2,720	2,373	2,457	2,108	2,062	2,178	3,611	2,920	2,772	2,177	2,208
Subcomponents of expenditure on assets (where known)											
Energy efficiency and demand side management, reduction of energy losses											
Overhead to underground conversion	50	50	-	-	-	-	-	-	-	-	-
Research and development											

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SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)
 EDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).
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	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24
Difference between nominal and constant price forecasts	\$000										
Consumer connection	-	-	5	10	16	23	31	41	52	64	74
System growth	-	-	19	41	66	95	129	167	211	261	300
Asset replacement and renewal	-	-	49	78	112	171	126	466	504	329	399
Asset relocations	-	-	-	-	-	-	-	-	-	-	-
Reliability, safety and environment:											
Quality of supply	-	-	30	53	66	104	134	165	181	203	229
Legislative and regulatory	-	-	-	-	-	-	-	-	-	-	-
Other reliability, safety and environment	-	-	8	12	30	26	469	43	53	62	71
Total reliability, safety and environment	-	-	38	65	97	130	603	208	234	265	300
Expenditure on network assets	-	-	111	194	291	419	889	883	1,000	919	1,073
Non-network assets	-	-	-	-	-	-	-	-	-	-	-
Expenditure on assets	-	-	111	194	291	419	889	883	1,000	919	1,073

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19
11a(ii): Consumer Connection	\$000 (in constant prices)					
<i>Consumer types defined by EDB*</i>						
Cat1 Domestic	45	48	50	54	57	60
Cat1 Non-domestic (< 15kVA)	30	32	34	36	38	40
Cat2 Non-Domestic (>15kVA)	15	16	17	18	19	20
Generator Connection	-	-	-	-	-	-
[EDB consumer type]						
<i>*include additional rows if needed</i>						
Consumer connection expenditure	90	95	101	107	114	120
less Capital contributions funding consumer connection						
Consumer connection less capital contributions	90	95	101	107	114	120

11a(iii): System Growth						
Subtransmission						
Zone substations						
Distribution and LV lines						
Distribution and LV cables	50					
Distribution substations and transformers	414	396	418	442	467	493
Distribution switchgear						
Other network assets						
System growth expenditure	464	396	418	442	467	493
less Capital contributions funding system growth						
System growth less capital contributions	464	396	418	442	467	493

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)
 EDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).
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	Current Year CY for year ended	CY+1 31 Mar 15	CY+2 31 Mar 16	CY+3 31 Mar 17	CY+4 31 Mar 18	CY+5 31 Mar 19
11a(iv): Asset Replacement and Renewal	\$000 (in constant prices)					
Subtransmission	190	245	191	146	118	124
Zone substations	753	406	375	297	298	364
Distribution and LV lines	407	409	371	305	280	295
Distribution and LV cables	100	50	50	50	50	50
Distribution substations and transformers	30	30	-	-	-	-
Distribution switchgear	38	42	108	49	51	54
Other network assets	35	-	-	-	-	-
Asset replacement and renewal expenditure	1,553	1,182	1,095	847	796	887
less Capital contributions funding asset replacement and renewal						
Asset replacement and renewal less capital contributions	1,553	1,182	1,095	847	796	887
11a(v):Asset Relocations						
<i>Project or programme*</i>						
[Description of material project or programme]						
[Description of material project or programme]						
[Description of material project or programme]						
[Description of material project or programme]						
[Description of material project or programme]						
<i>*include additional rows if needed</i>						
All other asset relocations projects or programmes						
Asset relocations expenditure	-	-	-	-	-	-
less Capital contributions funding asset relocations						
Asset relocations less capital contributions	-	-	-	-	-	-
11a(vi):Quality of Supply						
<i>Project or programme*</i>						
Fox Glacier Township - Develop 11 kV Ring	-	-	50	-	-	-
Conductor Replacement	100	100	100	100	100	120
Mt Bonar, Upgrade Repeater Site	-	20	80	60	-	-
HKK Protection upgrade	-	-	-	-	-	50
HKK-PAP Radio Link	-	-	-	-	-	70
SCADA Master Station Replacement	-	20	60	60	100	100
New main line recloser sites	-	-	87	-	-	-
Automate Capacitors at various locations	44	50	25	26	-	-
<i>*include additional rows if needed</i>						
All other quality of supply projects or programmes	290	320	269	335	271	202
Quality of supply expenditure	434	510	671	581	471	542
less Capital contributions funding quality of supply						
Quality of supply less capital contributions	434	510	671	581	471	542

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SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)
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142 11a(vii): Legislative and Regulatory

143	<i>Project or programme*</i>						
144	[Description of material project or programme]						
145	[Description of material project or programme]						
146	[Description of material project or programme]						
147	[Description of material project or programme]						
148	[Description of material project or programme]						
149	<i>*include additional rows if needed</i>						
150	All other legislative and regulatory projects or programmes						
151	Legislative and regulatory expenditure	-	-	-	-	-	-
152	<i>less</i> Capital contributions funding legislative and regulatory						
153	Legislative and regulatory less capital contributions	-	-	-	-	-	-

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)
 EDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).
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	for year ended	Current Year CY 31 Mar 14	CY+1 31 Mar 15	CY+2 31 Mar 16	CY+3 31 Mar 17	CY+4 31 Mar 18	CY+5 31 Mar 19
161							
162							
163	11a(viii): Other Reliability, Safety and Environment						
164	<i>Project or programme*</i>	\$000 (in constant prices)					
165	[Description of material project or programme]						
166	[Description of material project or programme]						
167	[Description of material project or programme]						
168	[Description of material project or programme]						
169	[Description of material project or programme]						
170	<i>*include additional rows if needed</i>						
171	All other reliability, safety and environment projects or programmes	179	190	172	131	214	135
172	Other reliability, safety and environment expenditure	179	190	172	131	214	135
173	less Capital contributions funding other reliability, safety and environment						
174	Other reliability, safety and environment less capital contributions	179	190	172	131	214	135
175							
176							
177							
178	11a(ix): Non-Network Assets						
179	Routine expenditure						
180	<i>Project or programme*</i>						
181	[Description of material project or programme]						
182	[Description of material project or programme]						
183	[Description of material project or programme]						
184	[Description of material project or programme]						
185	[Description of material project or programme]						
186	<i>*include additional rows if needed</i>						
187	All other routine expenditure projects or programmes						
188	Routine expenditure	-	-	-	-	-	-
189	Atypical expenditure						
190	<i>Project or programme*</i>						
191	[Description of material project or programme]						
192	[Description of material project or programme]						
193	[Description of material project or programme]						
194	[Description of material project or programme]						
195	[Description of material project or programme]						
196	<i>*include additional rows if needed</i>						
197	All other atypical projects or programmes						
198	Atypical expenditure	-	-	-	-	-	-
199							
200	Non-network assets expenditure	-	-	-	-	-	-

Company Name **Westpower Limited**
 AMP Planning Period **1 April 2014 – 31 March 2024**

SCHEDULE 11b: REPORT ON FORECAST OPERATIONAL EXPENDITURE

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

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	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10	
	for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24
Operational Expenditure Forecast												
\$000 (in nominal dollars)												
7		484	478	496	518	572	600	633	667	739	779	814
8	Service interruptions and emergencies	484	478	496	518	572	600	633	667	739	779	814
9	Vegetation management	486	486	504	527	576	610	638	667	697	738	771
10	Routine and corrective maintenance and inspection	3,883	3,491	3,447	3,581	3,706	3,945	4,187	4,533	5,012	5,391	5,734
11	Asset replacement and renewal	357	331	388	290	316	336	355	363	399	423	447
12	Network Opex	5,210	4,786	4,834	4,916	5,170	5,492	5,812	6,230	6,847	7,331	7,766
13	System operations and network support	1,649	2,298	2,286	2,375	2,463	2,545	2,576	2,650	2,750	2,853	2,950
14	Business support	1,741	1,827	1,768	1,810	1,864	1,910	1,959	2,008	2,071	2,124	2,176
15	Non-network opex	3,390	4,125	4,054	4,185	4,327	4,455	4,535	4,658	4,821	4,976	5,126
16	Operational expenditure	8,600	8,911	8,888	9,101	9,497	9,947	10,348	10,888	11,667	12,308	12,892

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10	
	for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24
\$000 (in constant prices)												
19		484	478	478	478	505	507	512	516	547	552	552
20	Service interruptions and emergencies	484	478	478	478	505	507	512	516	547	552	552
21	Vegetation management	486	486	486	486	509	516	516	516	516	523	523
22	Routine and corrective maintenance and inspection	3,883	3,491	3,324	3,304	3,272	3,334	3,385	3,508	3,711	3,820	3,888
23	Asset replacement and renewal	357	331	374	268	279	284	287	281	296	300	303
24	Network Opex	5,210	4,786	4,662	4,536	4,565	4,641	4,700	4,821	5,070	5,195	5,266
25	System operations and network support	1,649	2,298	2,225	2,245	2,262	2,269	2,234	2,232	2,248	2,263	2,271
26	Business support	1,741	1,827	1,727	1,727	1,735	1,736	1,738	1,739	1,749	1,750	1,750
27	Non-network opex	3,390	4,125	3,952	3,973	3,997	4,006	3,972	3,971	3,997	4,013	4,021
28	Operational expenditure	8,600	8,911	8,614	8,509	8,563	8,646	8,672	8,792	9,067	9,208	9,287

Subcomponents of operational expenditure (where known)

32	Energy efficiency and demand side management, reduction of energy losses											
33	Direct billing*											
34	Research and Development											
35	Insurance		215	215	215	215	215	215	215	215	215	215

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

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10	
	for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24
Difference between nominal and real forecasts												
\$000												
42	Service interruptions and emergencies	-	-	18	40	67	93	121	151	192	227	262
43	Vegetation management	-	-	18	41	67	95	122	151	181	215	248
44	Routine and corrective maintenance and inspection	-	-	123	276	433	611	801	1,025	1,301	1,571	1,846
45	Asset replacement and renewal	-	-	14	22	37	52	68	82	104	123	144
46	Network Opex	-	-	172	380	605	851	1,112	1,409	1,777	2,136	2,500
47	System operations and network support	-	-	61	129	201	276	343	418	502	590	679
48	Business support	-	-	40	83	128	174	221	269	322	373	426

Commerce Commission Information Disclosure Template

49	Non-network opex	-	-	102	213	329	449	563	687	824	963	1,105
50	Operational expenditure	-	-	274	592	934	1,300	1,676	2,096	2,600	3,099	3,605

Company Name **Westpower Limited**
 AMP Planning Period **1 April 2014 – 31 March 2024**

SCHEDULE 12a: REPORT ON ASSET CONDITION

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

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Asset condition at start of planning period (percentage of units by grade)										
Voltage	Asset category	Asset class	Units	Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Data accuracy (1-4)	% of asset forecast to be replaced in next 5 years
7										
8										
9										
10	All	Overhead Line	Concrete poles / steel structure	No.	0.01%	0.64%	4.95%	92.68%	1.70%	3
11	All	Overhead Line	Wood poles	No.	1.13%	13.91%	23.04%	55.53%	6.39%	3
12	All	Overhead Line	Other pole types	No.						4
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km			27.92%	35.13%	36.96%	2
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km			100.00%			4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km				100.00%		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km					[Select one]	
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km					[Select one]	
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km					[Select one]	
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km					[Select one]	
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km					[Select one]	
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km					[Select one]	
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km					[Select one]	
23	HV	Subtransmission Cable	Subtransmission submarine cable	km					[Select one]	
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	-	-	80.00%	20.00%	-	4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	100.00%	-	4
26	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	100.00%	-	4
27	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	35.00%	65.00%	-	4
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	-	-	4
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	-	55.00%	30.00%	15.00%	3
30	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	-	-	4
31	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	-	-	4
32	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	50.00%	50.00%	-	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	-	5.00%	27.00%	68.00%	-	4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	10.00%	16.00%	74.00%	-	4
42										
43										
Asset condition at start of planning period (percentage of units by grade)										
Voltage	Asset category	Asset class	Units	Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Data accuracy (1-4)	% of asset forecast to be replaced in next 5 years
44										
45	HV	Zone Substation Transformer	Zone Substation Transformers	No.	-	-	80.00%	20.00%	-	4
46	HV	Distribution Line	Distribution OH Open Wire Conductor	km	-	2.69%	6.70%	29.42%	61.18%	2
47	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	100.00%	-	4
48	HV	Distribution Line	SWER conductor	km	-	-	-	-	-	4
49	HV	Distribution Cable	Distribution UG XLPE or PVC	km	-	1.01%	22.98%	17.59%	58.42%	3
50	HV	Distribution Cable	Distribution UG PILC	km	-	2.73%	88.94%	1.07%	7.27%	3
51	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	-	[Select one]	
52	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	-	-	10.00%	90.00%	-	4
53	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	-	[Select one]	
54	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	-	10.00%	40.00%	50.00%	-	4
55	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	-	[Select one]	
56	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	-	-	35.00%	65.00%	-	4
57	HV	Distribution Transformer	Pole Mounted Transformer	No.	1.14%	10.52%	11.96%	22.77%	53.61%	1
58	HV	Distribution Transformer	Ground Mounted Transformer	No.	3.64%	13.82%	56.74%	14.90%	10.90%	2
59	HV	Distribution Transformer	Voltage regulators	No.	-	11.00%	56.00%	33.00%	-	4
60	HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	-	-	-	[Select one]	
61	LV	LV Line	LV OH Conductor	km	-	3.45%	23.98%	33.76%	38.80%	2
62	LV	LV Cable	LV UG Cable	km	-	0.01%	49.31%	10.87%	39.82%	2
63	LV	LV Streetlighting	LV OH/UG Streetlight circuit	km	-	-	-	-	100.00%	1
64	LV	Connections	OH/UG consumer service connections	No.	-	5.78%	47.34%	40.62%	6.26%	3
65	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-	10.00%	20.00%	70.00%	-	4
66	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	-	-	-	100.00%	-	4
67	All	Capacitor Banks	Capacitors including controls	No.	-	-	100.00%	-	-	4
68	All	Load Control	Centralised plant	Lot	-	-	100.00%	-	-	4
69	All	Load Control	Relays	No.	-	-	-	-	[Select one]	
70	All	Civils	Cable Tunnels	km	-	-	-	-	[Select one]	

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SCHEDULE 12b: REPORT ON FORECAST CAPACITY

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

sch ref

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

8		Current Peak Load (MVA)	Installed Firm Capacity (MVA)	Security of Supply Classification (type)	Transfer Capacity (MVA)	Utilisation of Installed Firm Capacity %	Installed Firm Capacity +5 years (MVA)	Utilisation of Installed Firm Capacity + 5yrs %	Installed Firm Capacity Constraint +5 years (cause)	Explanation
9	<i>Existing Zone Substations</i>									
10	Arnold	3	6	N	1	52%	6	52%	No constraint within +5 years	
11	Blackwater	2	5	N-1 switched	2	33%	5	35%	No constraint within +5 years	
12	Dobson	3	5	N-1 switched	3	59%	5	64%	No constraint within +5 years	
13	Fox Glacier	1	5	N	-	17%	5	19%	No constraint within +5 years	
14	Franz Josef	2	5	N	-	33%	5	36%	No constraint within +5 years	
15	Globe	6	10	N	-	55%	10	5%	No constraint within +5 years	
16	Greymouth	13	15	N-1	2	88%	15	97%	No constraint within +5 years	
17	Harihari	1	1	N	-	102%	1	107%	Transformer	
18	Hokitika	19	20	N-1	0	96%	20	129%	Transformer	
19	Kumara	9	10	N	1	92%	10	93%	No constraint within +5 years	
20	Logburn	1	30	N	0	2%	30	2%	No constraint within +5 years	
21	Ngahere	2	5	N-1 switched	2	41%	5	48%	No constraint within +5 years	
22	Pike	0	20	N	-	1%	20	1%	No constraint within +5 years	
23	Rapahoe	2	5	N-1 switched	2	35%	5	63%	No constraint within +5 years	
24	Reefton	11	30	N-1	1	35%	30	20%	No constraint within +5 years	
25	Ross	0	1	N-1 switched	0	49%	1	54%	No constraint within +5 years	
26	Wahapo	3	5	N	-	62%	5	62%	No constraint within +5 years	
27	Waitaha	0	1	N	-	33%	1	36%	No constraint within +5 years	
28	Whataroa	1	1	N	-	79%	1	87%	No constraint within +5 years	
29						-				

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

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

	(MVA)
31 Distribution transformer capacity (EDB owned)	151
32 Distribution transformer capacity (Non-EDB owned)	35
33 Total distribution transformer capacity	186
34	
35 Zone substation transformer capacity	187
36	

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SCHEDULE 12C: REPORT ON FORECAST NETWORK DEMAND

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

sch ref

7 12c(i): Consumer Connections

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

	Number of connections					
	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19
<i>Consumer types defined by EDB*</i>						
CAT 1 DOMESTIC	10,465	10,517	10,570	10,623	10,676	10,729
CAT 1 NON-DOMESTIC	1,850	1,859	1,869	1,878	1,887	1,897
CAT 2 NON-DOMESTIC	830	834	838	843	847	851
CAT 3 NON-DOMESTIC	21	21	21	21	21	22
CAT 4 NON-DOMESTIC	3	3	3	3	3	3
CAT 5 NON-DOMESTIC	1	1	1	1	1	1
Connections total	13,169	13,235	13,301	13,367	13,434	13,501

16 **include additional rows if needed*

17 Distributed generation

18 Number of connections

19 Installed connection capacity of distributed generation (MVA)

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19
Number of connections	8	8	9	9	9	9
Installed connection capacity of distributed generation (MVA)	19	19	20	20	20	20

20 12c(ii) System Demand

22 Maximum coincident system demand (MW)

23 GXP demand

24 *plus* Distributed generation output at HV and above

25 Maximum coincident system demand

26 *less* Net transfers to (from) other EDBs at HV and above

27 Demand on system for supply to consumers' connection points

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19
GXP demand	23	24	24	25	26	27
<i>plus</i> Distributed generation output at HV and above	26	26	26	26	26	26
Maximum coincident system demand	48	49	50	51	52	53
<i>less</i> Net transfers to (from) other EDBs at HV and above	-	-	-	-	-	-
Demand on system for supply to consumers' connection points	48	49	50	51	52	53

28 Electricity volumes carried (GWh)

29 Electricity supplied from GXPs

30 *less* Electricity exports to GXPs

31 *plus* Electricity supplied from distributed generation

32 *less* Net electricity supplied to (from) other EDBs

33 Electricity entering system for supply to ICPs

34 *less* Total energy delivered to ICPs

35 Losses

37 Load factor

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19
Electricity supplied from GXPs	196	206	206	212	222	232
<i>less</i> Electricity exports to GXPs	28	26	26	25	24	23
<i>plus</i> Electricity supplied from distributed generation	110	110	112	112	112	112
<i>less</i> Net electricity supplied to (from) other EDBs	-	-	-	-	-	-
Electricity entering system for supply to ICPs	278	289	292	299	310	322
<i>less</i> Total energy delivered to ICPs	263	275	278	284	295	306
Losses	15	14	15	15	16	16
Load factor	66%	67%	66%	67%	68%	69%

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38	Loss ratio	5.4%	5.0%	5.0%	5.0%	5.0%	5.0%
39							

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Network / Sub-network Name	

SCHEDULE 12d: REPORT FORECAST INTERRUPTIONS AND DURATION

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

sch ref		for year ended	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
			31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19
8								
9								
10	SAIDI							
11	Class B (planned interruptions on the network)		49.0	49.0	49.0	49.0	49.0	49.0
12	Class C (unplanned interruptions on the network)		128.0	128.0	128.0	128.0	128.0	128.0
13	SAIFI							
14	Class B (planned interruptions on the network)		0.22	0.22	0.22	0.22	0.22	0.22
15	Class C (unplanned interruptions on the network)		2.11	2.11	2.11	2.11	2.11	2.11