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ASSET MANAGEMENT PLAN UPDATE

2015 - 2025



Asset Management Plan Update 2015

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This Asset Management Plan (AMP) Update is available for public disclosure and applies for the period 1 April 2015 to 31 March 2025. The AMP is reviewed each year and a revised AMP is expected to be available for public disclosure by 1 April 2016.

1 Introduction

Centralines' Asset Management Plan (AMP) Update has been completed pursuant to clause 2.6.4 of the Electricity Distribution Information Disclosure Determination 2012. It provides details of material changes to the full AMP disclosed in March 2013, and the AMP Update disclosed in March 2014, and should be read as supplementary to those documents. The purpose of the AMP Update is to ensure that the purpose of the AMP continues to be met in years where it is not necessary for a full AMP to be disclosed. Centralines will next disclose a full AMP in March 2016.

2 Purpose of the AMP

The primary purpose of the AMP is to provide the reader with a clear and comprehensive overview of how Centralines manages its electricity distribution asset portfolio. The AMP documents parts of Centralines' Asset Management System that are used to establish line of sight and ensure that the organisation's strategic intent is transformed into optimal asset management outcomes. The plan is an important tool for fostering understanding of the business and the industry, and facilitates informed dialogue between Centralines, its owners, the communities and businesses it serves, and the organisations responsible for regulating the electricity industry in New Zealand. This dialogue, in turn, allows Centralines to improve the quality of its asset management planning.

The secondary purpose of the AMP is to discharge Centralines' responsibilities under the Electricity Distribution Information Disclosure Determination 2012. Clause 2.6.2 of the Determination provides the purpose of disclosure of asset management plans by New Zealand electricity distribution businesses, namely that the AMP:

1. Must provide sufficient information for an interested person to assess whether
 - a. assets are being managed for the long term;
 - b. the required level of performance is being delivered; and
 - c. costs are efficient and performance efficiencies are being achieved;
2. Must be capable of being understood by an interested person with a reasonable understanding of the management of infrastructure assets;
3. Should provide a sound basis for the on-going assessment of asset-related risks, particularly high impact asset-related risks.

For the majority of the plan, there is commonality of content required to achieve both purposes. There are, however, some instances where information is required to achieve just one of these purposes. This plan has been prepared so as to achieve the purpose of asset management plan disclosure as far as possible.

The plan can be thought of as the ‘tip of the iceberg’ that is asset management at Centralines. The policies, strategies, objectives, plans, standards, enterprise information systems, data, experience, capabilities, expertise and relationships that comprise Centralines’ Asset Management System have been condensed, processed and communicated in a manner appropriate to achieving the purposes described above.

Interpretation of ‘material changes’ for AMP update

Material changes are defined as significant deviations from the 2013 AMP or 2014 AMP Update with respect to how Centralines manages its assets. Changes to processes, the adoption of new tools, systems and techniques are considered material. Adding, removing and rescheduling a planned project is considered material where the value of any change is greater than \$300,000.

3 Material changes to Network Development Plans

Material change	Description of change and implications
<i>Ruataniwha Water Storage Scheme (proposed)</i>	<p><i>Hawke’s Bay Regional Investment Company (HBRIC) has proposed the construction of a water storage scheme in Central Hawke’s Bay which will supply irrigation to approximately 20,000 to 30,000ha of farmland.</i></p> <p><i>Centralines has been working with HBRIC for the construction of the electricity distribution network to provide supply to the water pumping and distribution system which comprises a total of 6MW of pumping load at 27 sites across the upper Ruataniwha plains and east of Waipawa in Central Hawke’s Bay.</i></p> <p><i>At the time of the 2014 AMP Update, Centralines expected a decision to be made on this project in April 2014. This has been delayed due to the ongoing consent and submission stage, with a decision now expected mid 2015.</i></p> <p><i>Should the project go ahead and Centralines is the preferred provider of the electricity network, Centralines would need to construct approximately 30km of 33kV and 60km of 11kV line and undertake major works at three 33kV/11kV substations. This work will be budgeted for in the 2016 AMP.</i></p>

Table 1: Material changes to network development plans

4 Material changes to Lifecycle Asset Management Plans

Material change	Description of change and implications
-	<i>No material changes</i>

Table 2: Material changes to lifecycle asset management (maintenance or renewal) plans

5 Reasons for any Material Changes to Expenditure Forecasts

Material change	Description of change and implications
-	<i>No material changes</i>

Table 3: Material changes to expenditure forecasts

6 Changes to Asset Management Practices Affecting Schedule 13 Report (AMMAT)

There have been no material changes to Centralines' Asset Management Practices since the publication of the Centralines 2013–2023 Asset Management Plan, which will significantly change Centralines AMMAT results.

Change	Description of change and implications
-	<i>No material changes</i>

Table 4: Changes to asset management practices affecting Schedule 13 Report (AMMAT)

7 Stakeholder Feedback

Centralines encourages feedback on all aspects of the AMP update to enable continued improvement in meeting the needs of consumers and stakeholders. Feedback should be addressed to:

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8.1 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.

11a(i): Expenditure on Assets Forecast		Current Year	CY+1	CY+2
for year ended		31 Mar 15	31 Mar 16	31 Mar 17
		\$000 (in nominal dollars)		
Consumer connection		300	300	308
System growth		493	430	241
Asset replacement and renewal		1,158	1,600	1,434
Asset relocations		115	120	138
Reliability, safety and environment:				
Quality of supply		146	440	839
Legislative and regulatory		-	-	-
Other reliability, safety and environment		8	-	21
Total reliability, safety and environment		154	440	861
Expenditure on network assets		2,220	2,890	2,981
Non-network assets		491	210	284
Expenditure on assets		2,711	3,100	3,265
<i>plus</i> Cost of financing		-	-	-
<i>less</i> Value of capital contributions		387	300	265
<i>plus</i> Value of vested assets		-	-	-
Capital expenditure forecast		2,324	2,800	3,000
Value of commissioned assets		2,776	3,435	3,497

		Current Year	CY+1	CY+2
for year ended		31 Mar 15	31 Mar 16	31 Mar 17
		\$000 (in constant prices)		
Consumer connection		300	291	291
System growth		493	417	227
Asset replacement and renewal		1,158	1,551	1,353
Asset relocations		115	116	130
Reliability, safety and environment:				
Quality of supply		146	426	792
Legislative and regulatory		-	-	-
Other reliability, safety and environment		8	-	20
Total reliability, safety and environment		154	426	812
Expenditure on network assets		2,220	2,801	2,813
Non-network assets		491	204	268
Expenditure on assets		2,711	3,004	3,081

Subcomponents of expenditure on assets (where known)				
Energy efficiency and demand side management, reduction of energy losses				
Overhead to underground conversion		315	-	300
Research and development				

<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20	<i>CY+6</i> 31 Mar 21	<i>CY+7</i> 31 Mar 22	<i>CY+8</i> 31 Mar 23	<i>CY+9</i> 31 Mar 24	<i>CY+10</i> 31 Mar 25
315	323	329	335	341	347	352	358
311	319	325	330	336	342	348	353
1,556	1,625	1,689	1,719	1,749	1,778	1,808	1,838
141	144	147	150	152	155	157	160

517	535	562	572	582	592	602	612
-	-	-	-	-	-	-	-
22	22	23	23	23	24	24	25
539	557	585	595	606	616	626	637
2,863	2,967	3,074	3,129	3,183	3,238	3,292	3,346
616	297	643	309	665	319	688	330
3,479	3,265	3,717	3,437	3,849	3,557	3,980	3,676

-	-	-	-	-	-	-	-
273	281	290	299	207	317	326	335
-	-	-	-	-	-	-	-

3,206	2,984	3,427	3,138	3,642	3,240	3,654	3,341
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3,136	3,581	3,381	3,876	3,632	4,126	3,910	4,453
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<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20	<i>CY+6</i> 31 Mar 21	<i>CY+7</i> 31 Mar 22	<i>CY+8</i> 31 Mar 23	<i>CY+9</i> 31 Mar 24	<i>CY+10</i> 31 Mar 25
291	291	291	291	291	291	291	291
287	287	287	287	287	287	287	287
1,435	1,464	1,493	1,493	1,493	1,493	1,493	1,493
130	130	130	130	130	130	130	130
477	482	497	497	497	497	497	497
-	-	-	-	-	-	-	-
20	20	20	20	20	20	20	20
497	502	517	517	517	517	517	517
2,640	2,674	2,718	2,718	2,718	2,718	2,718	2,718
568	268	568	268	568	268	568	268
3,208	2,942	3,286	2,986	3,286	2,986	3,286	2,986

300	300	300	300	300	300	300	300
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	Current Year 31 Mar 15	CY+1 31 Mar 16	CY+2 31 Mar 17
for year ended			
Difference between nominal and constant price forecasts	\$000		
Consumer connection	-	9	17
System growth	-	13	14
Asset replacement and renewal	-	49	81
Asset relocations	-	4	8
Reliability, safety and environment:			
Quality of supply	-	14	47
Legislative and regulatory	-	-	-
Other reliability, safety and environment	-	-	1
Total reliability, safety and environment	-	14	49
Expenditure on network assets	-	89	168
Non-network assets	-	6	16
Expenditure on assets	-	96	185

11a(ii): Consumer Connection	Current Year 31 Mar 15	CY+1 31 Mar 16	CY+2 31 Mar 17
for year ended			
<i>Consumer types defined by EDB</i>	\$000 (in constant prices)		
As requested by customers	300	291	291
Consumer connection expenditure	300	291	291
<i>less</i> Capital contributions funding consumer connection	174	138	119
Consumer connection less capital contributions	126	153	172

11a(iii): System Growth			
Sub-transmission			
Zone substations			
Distribution and LV lines	481	417	227
Distribution and LV cables	12		
Distribution substations and transformers			
Distribution switchgear			
Other network assets			
System growth expenditure	493	417	227
<i>less</i> Capital contributions funding system growth	105	81	72
System growth less capital contributions	388	335	155

11a(iv): Asset Replacement and Renewal			
Sub-transmission	180	342	150
Zone substations		-	
Distribution and LV lines	478	533	1,003
Distribution and LV cables	315	116	
Distribution substations and transformers	185	359	200
Distribution switchgear		201	
Other network assets			
Asset replacement and renewal expenditure	1,158	1,551	1,353
<i>less</i> Capital contributions funding asset replacement and renewal	32	24	22
Asset replacement and renewal less capital contributions	1,126	1,527	1,331

<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20	<i>CY+6</i> 31 Mar 21	<i>CY+7</i> 31 Mar 22	<i>CY+8</i> 31 Mar 23	<i>CY+9</i> 31 Mar 24	<i>CY+10</i> 31 Mar 25
25	32	38	44	50	56	61	67
24	32	38	43	49	55	61	66
121	161	196	226	256	285	315	345
11	14	17	20	22	25	27	30

40	53	65	75	85	95	105	115
-	-	-	-	-	-	-	-
2	2	3	3	3	4	4	5
42	55	68	78	89	99	109	120
223	294	357	411	465	520	574	628
48	29	75	41	97	51	120	62
271	323	431	451	563	571	694	690

<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20
291	291	291

291	291	291
123	126	130
168	164	160

287	287	287
287	287	287
74	76	79
213	211	208

975	1,144	1,155
65		
315	240	248
80	80	90
1,435	1,464	1,493
23	23	24
1,412	1,441	1,469

11a(v): Asset Relocations

		Current Year 31 Mar 15	CY+1 31 Mar 16	CY+2 31 Mar 17
for year ended				
Project or programme		\$000 (in constant prices)		
To be determined		115	116	130
All other asset relocations projects or programmes				
Asset relocations expenditure		115	116	130
less	Capital contributions funding asset relocations	60	45	41
Asset relocations less capital contributions		55	71	89

11a(vi): Quality of Supply

Project or programme				
Power Quality Complaints and Investigations		6	39	40
Waipawa GXP - Install Distance Protection on Takapau 33kV		140	-	
Waipukurau Sub - Connect RTU onto Fibre Network			174	
Waipawa Sub - Connect RTU onto Fibre Network			174	
Paget Rd Regulator - Establish Comms and Automation			39	
Waipukurau Sub - Reg DA Upgrade			-	40
Takapau Sub - Reg DA Upgrade			-	40
Waipukurau Sub - Install 33kV Ripple Plant Circuit Breaker			-	120
Waipawa Sub - Upgrade 33kV stand bolting arrangements			-	50
Waipawa GXP - Install Fibre to Takapau			-	400
Takapau Sub - Transformer Protection Relay Upgrade			-	
Takapau Sub - Connect RTU onto Fibre Network			-	
Waipawa Sub - Upgrade 33kV CT's			-	
Automation Projects (33kV and 11kV)				102
All other quality of supply projects or programmes				
Quality of supply expenditure		146	426	792
less	Capital contributions funding quality of supply	16	12	11
Quality of supply less capital contributions		130	414	781

11a(vii): Legislative and Regulatory

Project or programme				
All other legislative and regulatory projects or programmes				
Legislative and regulatory expenditure		-	-	-
less	Capital contributions funding legislative and regulatory	-	-	-
Legislative and regulatory less capital contributions		-	-	-

11a(viii): Other Reliability, Safety and Environment

Project or programme				
Waipukurau Substation - Replace 11kV VCB cubicle doors		8		
RSE Projects				20
All other reliability, safety and environment projects or programmes				
Other reliability, safety and environment expenditure		8	-	20
less	Capital contributions funding other reliability, safety and environment	-	-	-
Other reliability, safety and environment less capital contributions		8	-	20

<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20
130	130	130

130	130	130
42	44	45
88	86	85

40	40	40
437	262 180	80 377

477	482	497
11	12	12
466	470	485

-	-	-
-	-	-
-	-	-

20	20	20
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20	20	20
-	-	-
20	20	20

11a(ix): Non-Network Assets		<i>Current Year</i>	<i>CY+1</i>	<i>CY+2</i>
Routine expenditure		31 Mar 15	31 Mar 16	31 Mar 17
<i>Project or programme</i>		\$000 (in constant prices)		
	Motor Vehicles	386	124	150
	Plant & Equipment	54	72	100
	Buildings	47	-	15
	Office Equipment	4	8	3
All other routine expenditure projects or programmes				
Routine expenditure		491	204	268
All other routine expenditure projects or programmes				
Atypical expenditure		-	-	-
Non-network assets expenditure		491	204	268

<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20
450	150	450
100	100	100
15	15	15
3	3	3
568	268	568
-	-	-
568	268	568

8.2 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.

	Current Year 31 Mar 15	CY+1 31 Mar 16	CY+2 31 Mar 17
for year ended			
Operational Expenditure Forecast	\$000 (in nominal dollars)		
Service interruptions and emergencies	335	278	278
Vegetation management	699	567	567
Routine and corrective maintenance and inspection	165	199	199
Asset replacement and renewal	431	407	407
Network Opex	1,630	1,451	1,451
System operations and network support	325	383	383
Business support	1,542	1,810	1,810
Non-network opex	1,867	2,193	2,193
Operational expenditure	3,497	3,644	3,644

	Current Year 31 Mar 15	CY+1 31 Mar 16	CY+2 31 Mar 17
for year ended			
	\$000 (in constant prices)		
Service interruptions and emergencies	335	272	272
Vegetation management	699	555	555
Routine and corrective maintenance and inspection	165	195	195
Asset replacement and renewal	431	399	399
Network Opex	1,630	1,421	1,421
System operations and network support	325	375	375
Business support	1,542	1,772	1,772
Non-network opex	1,867	2,147	2,147
Operational expenditure	3,497	3,568	3,568

Subcomponents of operational expenditure (where known)

Energy efficiency and demand side anagement, reduction of energy losses			
Direct billing*			
Research and Development		250	
Insurance			

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

	Current Year 31 Mar 15	CY+1 31 Mar 16	CY+2 31 Mar 17
for year ended			
Difference between nominal and real forecasts	\$000		
Service interruptions and emergencies	-	6	6
Vegetation management	-	12	12
Routine and corrective maintenance and inspection	-	4	4
Asset replacement and renewal	-	8	8
Network Opex	-	30	30
System operations and network support	-	8	8
Business support	-	38	38
Non-network opex	-	46	46
Operational expenditure	-	76	76

	<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20	<i>CY+6</i> 31 Mar 21	<i>CY+7</i> 31 Mar 22	<i>CY+8</i> 31 Mar 23	<i>CY+9</i> 31 Mar 24	<i>CY+10</i> 31 Mar 25
	284	291	298	303	308	314	319	325
	580	594	609	618	629	640	651	662
	203	208	214	217	221	225	229	233
	416	426	437	444	452	460	468	476
	1,484	1,520	1,557	1,582	1,610	1,639	1,667	1,695
	392	401	411	418	425	433	440	448
	1,851	1,896	1,943	1,973	2,008	2,044	2,079	2,115
	2,242	2,298	2,354	2,391	2,433	2,476	2,519	2,562
	3,726	3,818	3,911	3,972	4,044	4,115	4,186	4,258

	<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20	<i>CY+6</i> 31 Mar 21	<i>CY+7</i> 31 Mar 22	<i>CY+8</i> 31 Mar 23	<i>CY+9</i> 31 Mar 24	<i>CY+10</i> 31 Mar 25
	272	272	272	272	272	272	272	272
	555	555	555	555	555	555	555	555
	195	195	195	195	195	195	195	195
	399	399	399	399	399	399	399	399
	1,421	1,421	1,421	1,421	1,421	1,421	1,421	1,421
	375	375	375	375	375	375	375	375
	1,772	1,772	1,772	1,772	1,772	1,772	1,772	1,772
	2,147	2,147	2,147	2,147	2,147	2,147	2,147	2,147
	3,568	3,568	3,568	3,568	3,568	3,568	3,568	3,568

	<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20	<i>CY+6</i> 31 Mar 21	<i>CY+7</i> 31 Mar 22	<i>CY+8</i> 31 Mar 23	<i>CY+9</i> 31 Mar 24	<i>CY+10</i> 31 Mar 25
	12	19	26	31	36	42	47	53
	25	39	53	63	74	85	96	107
	9	14	19	22	26	30	34	38
	18	28	38	45	53	61	69	77
	63	99	137	161	189	218	246	275
	17	26	36	42	50	57	65	72
	78	124	170	201	236	272	307	343
	95	150	206	243	286	329	372	415
	158	250	343	404	476	547	618	690

8.3 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.

Voltage	Asset category	Asset class	Units
All	Overhead Line	Concrete poles / steel structure	No.
All	Overhead Line	Wood poles	No.
All	Overhead Line	Other pole types	No.
HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km
HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km
HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km
HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km
HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km
HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km
HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km
HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km
HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km
HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km
HV	Subtransmission Cable	Subtransmission submarine cable	km
HV	Zone substation Buildings	Zone substations up to 66kV	No.
HV	Zone substation Buildings	Zone substations 110kV+	No.
HV	Zone substation switchgear	22/33kV CB (Indoor)	No.
HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.
HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.
HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.
HV	Zone substation switchgear	33kV RMU	No.
HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.
HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.
HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.
HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.
HV	Zone Substation Transformer	Zone Substation Transformers	No.
HV	Distribution Line	Distribution OH Open Wire Conductor	km
HV	Distribution Line	Distribution OH Aerial Cable Conductor	km
HV	Distribution Line	SWER conductor	km
HV	Distribution Cable	Distribution UG XLPE or PVC	km
HV	Distribution Cable	Distribution UG PILC	km
HV	Distribution Cable	Distribution Submarine Cable	km
HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.
HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.
HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.
HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.
HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.
HV	Distribution Transformer	Pole Mounted Transformer	No.
HV	Distribution Transformer	Ground Mounted Transformer	No.
HV	Distribution Transformer	Voltage regulators	No.
HV	Distribution Substations	Ground Mounted Substation Housing	No.
LV	LV Line	LV OH Conductor	km
LV	LV Cable	LV UG Cable	km
LV	LV Streetlighting	LV OH/UG Streetlight circuit	km
LV	Connections	OH/UG consumer service connections	No.
All	Protection	Protection relays (electromechanical, solid state and numeric)	No.
All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot
All	Capacitor Banks	Capacitors including controls	No.
All	Load Control	Centralised plant	Lot
All	Load Control	Relays	No.
All	Civils	Cable Tunnels	km

Notes on Condition

Grade 1

End of serviceable life, immediate intervention required.

Grade 2

Material deterioration but asset condition still within serviceable life parameters. Intervention likely to be required within 3 years.

Grade 3

Normal deterioration requiring regular monitoring.

Grade 4

Good or as new condition.

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

	Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Data accuracy (1–4)	% of asset forecast to be replaced in next 5 years
	0.06%	0.18%	88.76%	11.00%		2	0.30%
	4.65%	14.60%	79.75%	1.00%		3	23.00%
						N/A	
	-	-	94.80%	5.20%		1	-
						N/A	
	-	-	0.33%	99.67%		2	
						N/A	
						N/A	
						N/A	
						N/A	
						N/A	
						N/A	
	-	-	33.00%	67.00%		1	-
						N/A	
	-	-	9.09%	90.91%		2	-
						N/A	
	-	-	42.86%	57.14%		2	7.14%
						N/A	
						N/A	
	-	-	66.67%	33.33%		2	67.00%
	-	-	16.67%	83.33%		2	17.00%
	-	-	14.29%	85.71%		2	-
	0.37%	1.00%	94.53%	4.10%		1	1.85%
						N/A	
						N/A	
	-	-		100.00%		2	1.00%
	-	-		100.00%		2	1.00%
						N/A	
	-	-	65.31%	34.69%		2	1.00%
						N/A	
	0.12%	0.40%	47.48%	52.00%		2	0.63%
						N/A	
	-	-		100.00%		2	-
	0.24%	0.75%	92.01%	7.00%		3	1.25%
	2.00%	1.30%	-	96.70%		2	2.00%
	-	17.00%	33.00%	50.00%		2	17.00%
	-	-	-	100.00%		2	-
	1.00%	3.00%	88.90%	7.10%		1	5.00%
				100.00%		2	-
				100.00%		2	-
	0.15%	-		99.85%		2	0.15%
	-	-	33.33%	66.67%		2	-
				100.00%		2	-
				100.00%		4	-
			100.00%			3	-
						N/A	

8.4 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.

12b(i): System Growth - Zone Substations

Existing Zone Substations	Current Peak Load (MVA)	Installed Firm Capacity (MVA)	Security of Supply Classification (type)	Transfer Capacity (MVA)	Utilisation of Installed Firm Capacity %	Installed Firm Capacity +5 years (MVA)
Waipukurau	9	18	CBD/Industrial/Residential/Rural	-	52%	22.5
Waipawa	5	18	CBD/Industrial/Residential/Rural	-	29%	22.5
Takapau	8	18	CBD/Industrial/Residential/Rural	-	42%	22.5
OngaOnga	6	12	Rural/Remote Rural	-	48%	15.0
Wilder Road	1	2.4	Rural/Remote Rural	-	47%	3.0

12b(ii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	87
Distribution transformer capacity (Non-EDB owned)	9
Total distribution transformer capacity	95
Zone substation transformer capacity	47

	Utilisation of Installed Firm Capacity + 5yrs %	Installed Firm Capacity Constraint +5 years (cause)	Explanation
	42%	No constraint within +5 years	
	23%	No constraint within +5 years	
	34%	No constraint within +5 years	
	39%	No constraint within +5 years	
	37%	No constraint within +5 years	

8.5 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.

12c(i): Consumer Connections

Number of ICPs connected in year by consumer type

	for year ended	Current Year 31 Mar 15	CY+1 31 Mar 16
<i>Consumer types defined by EDB</i>		Number of connections	
Small Customers		8,324	8,371
Medium Customers		117	118
Large Customers		2	2
Connections total		8,443	8,491

Distributed generation

Number of connections	
Installed connection capacity of distributed generation (MVA)	

12c(ii) System Demand

	for year ended	Current Year 31 Mar 15	CY+1 31 Mar 16
Maximum coincident system demand (MW)		Number of connections	
GXP demand		20	20
<i>plus</i> Distributed generation output at HV and above			
Maximum coincident system demand		20	20
<i>less</i> Net transfers to (from) other EDBs at HV and above			
Demand on system for supply to consumers' connection points		20	20
Electricity volumes carried (GWh)			
Electricity supplied from GXPs		112	112
<i>less</i> Electricity exports to GXPs			
<i>plus</i> Electricity supplied from distributed generation			
<i>less</i> Net electricity supplied to (from) other EDBs			
Electricity entering system for supply to ICPs		112	112
<i>less</i> Total energy delivered to ICPs		103	103
Losses		9	9
Load factor		63%	63%
Loss ratio		8.0%	8.0%

<i>CY+2</i> 31 Mar 17	<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20
Number of connections			
8,438	8,502	8,555	8,575
119	120	121	122
2	2	2	2
8,559	8,624	8,678	8,699

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<i>CY+2</i> 31 Mar 17	<i>CY+3</i> 31 Mar 18	<i>CY+4</i> 31 Mar 19	<i>CY+5</i> 31 Mar 20
Number of connections			
21	21	21	22
21	21	21	22
21	21	21	22

112	113	113	113
112	113	113	113
103	104	104	104
9	9	9	9

62%	62%	61%	59%
8.0%	8.0%	8.0%	8.0%

8.6 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.

	<i>Current Year</i>	<i>CY+1</i>	<i>CY+2</i>	<i>CY+3</i>	<i>CY+4</i>	<i>CY+5</i>
for year ended	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20
SAIDI						
Class B (planned interruptions on the network)	63.7	69.7	69.7	69.7	69.7	69.7
Class C (unplanned interruptions on the network)	79.9	84.2	84.2	84.2	84.2	84.2
SAIFI						
Class B (planned interruptions on the network)	0.32	0.38	0.38	0.38	0.38	0.38
Class C (unplanned interruptions on the network)	2.01	3.33	3.33	3.33	3.33	3.33

Explanatory Note:

From 1 Apr 2015 the rules set by the Commerce Commission for assessing SAIDI and SAIFI are changing. The key change is that going forward, EDBs assessed values will include a 0.5 weighting (50% of actual) of planned outages. This will apply to assessment of both SAIDI and SAIFI.

The figures shown above, and the figures that will be presented during Information Disclosure, do not reflect this change in methodology. These figures show the total expected minutes and number of interruptions, not those that will be used for assessment (e.g. 100% of planned SAIDI and SAIFI are shown here). These are the minutes and interruptions that Centralines' customers will experience.

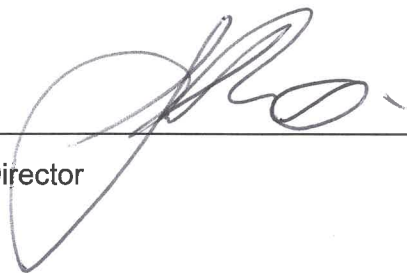


CERTIFICATION FOR YEAR-BEGINNING DISCLOSURES

Pursuant to Schedule 17


We, Samuel Amuri Robinson and Jon Edmond Nichols, being directors of Centralines Limited certify that, having made all reasonable enquiry, to the best of our knowledge -

- a) The following attached information of Centralines Limited prepared for the purposes of clause 2.4.1, clause 2.6.1 and subclauses 2.6.3(4) and 2.6.5(3) of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination.
- b) The prospective financial or non-financial information included in the attached information has been measured on a basis consistent with regulatory requirements or recognised industry standards.



Director

Date: 26/3/15



Director

Date: 28/03/15

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