



For Submission to:

Commerce Commission

Asset Management Plan Update

1st April 2017 – 31st March 2027

Prepared by:

Buller Electricity

Robertson Street

Westport

Date: 31 March 2017

To Ensure Public Safety and Prudent Financial Management and control.

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1. ASSET MANAGEMENT PLAN UPDATE

Buller Electricity has elected to provide an Asset Management Plan Update as opposed to a full Asset Management Plan as permitted under section 2.6.3 of the Electricity Distribution Information Disclosure Determination 2012.

This Asset Management Plan Update relates to the period 1 April 2017 to 31 March 2027. It was completed in January 2017 and approved by Buller Electricity's Board of Directors on 26th January 2017, prior to public disclosure on 31 March 2017.

This update relates to the Buller Electricity Ltd 2016-2026 AMP and provides information on material changes to that plan

2. MATERIAL CHANGES TO THE NETWORK DEVELOPMENT PLANS

There have been no material changes to the Network development plans as set out in Section five of the Buller Electricity 2016-2026 Asset Management Plan.

3. MATERIAL CHANGES TO LIFE CYCLE ASSET MANAGEMENT

Steel reinforced concrete poles manufactured by the Buller Electric Power board in the 1960s and 1970s will now where appropriate be patch repaired in favour of replacement so to maintain their expected lifespan.

4. REASONS FOR MATERIAL CHANGES TO FORECAST EXPENDITURE (SCHEDULES 11A AND 11B)

There has been some reclassification of some capital expenditure work from "Asset Relocation" to "Reliability, Safety and Environment" or "legislative and regulatory" to better align with the

primary driver for this work, however this has not resulted in any material changes to the overall levels of expenditure. There have also been some timing alterations to some schedules due to fault and weather events, however this does not materially affect the network development plans or expenditure forecasts.

Forecast operational fault expenditure has increased with the addition of an electrician to the on call standby roster and the internal health and safety requirement that two competent staff are required when any work at height is required. These combined add \$51k to the annual fault budget.

Vegetation management budget has been increased for the 2017-2018 year due to a backlog of work to be completed.

Some operational refurbishment and renewal work has been reclassified to routine maintenance as it better aligns with the interpretations of the Electricity Distribution Information Disclosure Determination. The overall operational expenditure levels have remained largely unchanged.

System operations and network support costs have altered due to a forecast increase in corporate staff time and salary rate adjustments/increases

The values of assets commissioned in Schedule 11a have been reduced to better align with sub part 2 of the Electricity Distribution Services Input Methodologies Determination 2012.

5. CHANGES TO ASSET MANAGEMENT PRACTICES

There have been no material changes to asset management practices during the last year that would affect the disclosure of Schedule 13 Report on Asset Management Maturity.

6. DISCLOSURE SCHEDULES 11A, 11B, 12A, 12B, 12C, 12D AND 14A

The disclosed schedules were completed in January 2017 and approved by the Buller Electricity board of directors on January 26th 2017.



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

Company Name	Buller Electricity Limited
Disclosure Date	1 April 2017
AMP Planning Period Start Date (first day)	1 April 2017

**Templates for Schedules 11a–13 (Asset Management Plan)
Template Version 4.1. Prepared 24 March 2015**

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Information disclosure asset management plan schedules

Schedule	Schedule name
11a	REPORT ON FORECAST CAPITAL EXPENDITURE
11b	REPORT ON FORECAST OPERATIONAL EXPENDITURE
12a	REPORT ON ASSET CONDITION
12b	REPORT ON FORECAST CAPACITY
12c	REPORT ON FORECAST NETWORK DEMAND
12d	REPORT FORECAST INTERRUPTIONS AND DURATION
13	REPORT ON ASSET MANAGEMENT MATURITY

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 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27
11a(i): Expenditure on Assets Forecast	\$000 (in nominal dollars)										
Consumer connection	100	100	102	104	106	108	110	113	115	117	120
System growth	-	-	-	-	-	-	-	-	-	-	-
Asset replacement and renewal	689	679	682	632	574	573	759	786	952	1,167	1,165
Asset relocations	80	-	-	-	-	-	-	-	-	-	-
Reliability, safety and environment:											
Quality of supply	16	22	63	12	23	13	28	23	17	23	24
Legislative and regulatory	119	85	36	68	69	70	89	46	47	48	49
Other reliability, safety and environment	162	160	168	196	190	193	151	150	153	156	231
Total reliability, safety and environment	297	267	268	276	282	276	268	218	217	228	304
Expenditure on network assets	1,166	1,046	1,051	1,012	962	957	1,137	1,117	1,284	1,512	1,589
Expenditure on non-network assets	-	-	-	-	-	-	-	-	-	-	-
Expenditure on assets	1,166	1,046	1,051	1,012	962	957	1,137	1,117	1,284	1,512	1,589
plus Cost of financing	-	-	-	-	-	-	-	-	-	-	-
less Value of capital contributions	115	115	116	119	121	123	125	129	131	133	136
plus Value of vested assets	18	18	19	19	19	20	20	20	21	21	21
Capital expenditure forecast	1,069	949	954	912	860	853	1,032	1,008	1,174	1,400	1,474
Assets commissioned	1,609	949	954	912	860	853	1,032	1,008	1,174	1,400	1,474
	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 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27
	\$000 (in constant prices)										
Consumer connection	100	100	100	100	100	100	100	100	100	100	100
System growth	-	-	-	-	-	-	-	-	-	-	-
Asset replacement and renewal	689	680	711	650	544	564	661	706	838	1,006	995
Asset relocations	80	-	-	-	-	-	-	-	-	-	-
Reliability, safety and environment:											
Quality of supply	16	22	32	52	22	12	22	12	22	12	22
Legislative and regulatory	119	84	102	81	81	81	81	41	41	41	41
Other reliability, safety and environment	162	160	137	133	163	173	162	132	132	132	193
Total reliability, safety and environment	297	266	271	266	266	266	265	185	195	185	256
Expenditure on network assets	1,166	1,046	1,082	1,016	909	930	1,026	991	1,133	1,290	1,351
Expenditure on non-network assets	-	-	-	-	-	-	-	-	-	-	-
Expenditure on assets	1,166	1,046	1,082	1,016	909	930	1,026	991	1,133	1,290	1,351
Subcomponents of expenditure on assets (where known)											
Energy efficiency and demand side management, reduction of energy losses	-	-	-	-	-	-	-	-	-	-	-
Overhead to underground conversion	81	81	81	81	81	81	81	81	81	81	81
Research and development	-	-	-	-	-	-	-	-	-	-	-

Company Name **Buller Electricity Limited**
 AMP Planning Period **1 April 2017 – 31 March 2027**

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 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27
Difference between nominal and constant price forecasts	\$000										
Consumer connection	-	-	2	4	6	8	10	13	15	17	20
System growth	-	-	-	-	-	-	-	-	-	-	-
Asset replacement and renewal	-	(1)	(30)	(19)	31	8	99	80	114	161	170
Asset relocations	-	-	-	-	-	-	-	-	-	-	-
Reliability, safety and environment:											
Quality of supply	-	-	31	(40)	1	1	6	11	(5)	12	2
Legislative and regulatory	(0)	1	(66)	(14)	(12)	(11)	8	5	6	7	8
Other reliability, safety and environment	-	-	31	64	27	20	(11)	18	21	24	38
Total reliability, safety and environment	(0)	1	(3)	11	16	10	2	33	22	43	48
Expenditure on network assets	(0)	(0)	(31)	(4)	53	27	111	126	151	221	237
Expenditure on non-network assets	-	-	-	-	-	-	-	-	-	-	-
Expenditure on assets	(0)	(0)	(31)	(4)	53	27	111	126	151	221	237

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended					
	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22
11a(ii): Consumer Connection	\$000 (in constant prices)					
<i>Consumer types defined by EDB*</i>						
Small Connection Points (<=15KVA)	60	60	60	60	60	60
Medium Connection Points (>15KVA and non TOU)	40	40	40	40	40	40
Large Connection Points (TOU excluding Top 5)						
Largest 5 Connection Points						
All customers						
<i>*include additional rows if needed</i>						
Consumer connection expenditure	100	100	100	100	100	100
less Capital contributions funding consumer connection	100	100	100	100	100	100
Consumer connection less capital contributions	-	-	-	-	-	-

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended					
	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22
11a(iii): System Growth						
Subtransmission						
Zone substations						
Distribution and LV lines						
Distribution and LV cables						
Distribution substations and transformers						
Distribution switchgear						
Other network assets						
System growth expenditure	-	-	-	-	-	-
less Capital contributions funding system growth						
System growth 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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	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22
11a(iv): Asset Replacement and Renewal	\$000 (in constant prices)					
Subtransmission	159	156	95	95	95	95
Zone substations					5	10
Distribution and LV lines	344	434	421	376	330	365
Distribution and LV cables	-					
Distribution substations and transformers	50	51	51	51	51	51
Distribution switchgear	95	39	43	43	43	43
Other network assets	41		102	86	20	
Asset replacement and renewal expenditure	689	680	711	650	544	564
less Capital contributions funding asset replacement and renewal						
Asset replacement and renewal less capital contributions	689	680	711	650	544	564

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22
11a(v):Asset Relocations	\$000 (in constant prices)					
<i>Project or programme*</i>						
Overhead to Underground	80	-	-	-	-	-
[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 project or programmes - asset relocations						
Asset relocations expenditure	80	-	-	-	-	-
less Capital contributions funding asset relocations						
Asset relocations less capital contributions	80	-	-	-	-	-

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
for year ended	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22
11a(vi):Quality of Supply	\$000 (in constant prices)					
<i>Project or programme*</i>						
Install Reclosers	6	10				
Upgrade Recloser Controllers	10	12	12	12	12	12
Install Fault Locators			10		10	
[Description of material project or programme]						
[Description of material project or programme]						
<i>*include additional rows if needed</i>						
All other projects or programmes - quality of supply			10	40		
Quality of supply expenditure	16	22	32	52	22	12
less Capital contributions funding quality of supply						
Quality of supply less capital contributions	16	22	32	52	22	12

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 31 Mar 17	CY+1 31 Mar 18	CY+2 31 Mar 19	CY+3 31 Mar 20	CY+4 31 Mar 21	CY+5 31 Mar 22
11a(vii): Legislative and Regulatory						
<i>Project or programme*</i>	\$000 (in constant prices)					
[Description of material project or programme]						
2 Pole Substation Replacement	119	84	41	81	81	81
Rebuild Low Clearance Line Martins Corner			61			
[Description of material project or programme]						
[Description of material project or programme]						
<i>*include additional rows if needed</i>						
All other projects or programmes - legislative and regulatory						
Legislative and regulatory expenditure	119	84	102	81	81	81
less Capital contributions funding legislative and regulatory						
Legislative and regulatory less capital contributions	119	84	102	81	81	81

	Current Year CY for year ended 31 Mar 17	CY+1 31 Mar 18	CY+2 31 Mar 19	CY+3 31 Mar 20	CY+4 31 Mar 21	CY+5 31 Mar 22
11a(viii): Other Reliability, Safety and Environment						
<i>Project or programme*</i>	\$000 (in constant prices)					
Earthing Upgrades	30	18	20	25	25	25
Replace Piller boxes Palmerston & Henley St	10		25	25	25	25
[Description of material project or programme]	25					
[Description of material project or programme]	97					
[Description of material project or programme]						
<i>*include additional rows if needed</i>						
All other projects or programmes - other reliability, safety and environment		142	92	82	112	122
Other reliability, safety and environment expenditure	162	160	137	133	163	173
less Capital contributions funding other reliability, safety and environment						
Other reliability, safety and environment less capital contributions	162	160	137	133	163	173

	Current Year CY for year ended 31 Mar 17	CY+1 31 Mar 18	CY+2 31 Mar 19	CY+3 31 Mar 20	CY+4 31 Mar 21	CY+5 31 Mar 22
11a(ix): Non-Network Assets						
Routine expenditure						
<i>Project or programme*</i>	\$000 (in constant prices)					
[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 projects or programmes - routine expenditure						
Routine expenditure	-	-	-	-	-	-
Atypical expenditure						
<i>Project or programme*</i>						
[Description of material project or programme]						

Company Name **Buller Electricity Limited**
 AMP Planning Period **1 April 2017 – 31 March 2027**

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	Description						
180	[Description of material project or programme]						
181	[Description of material project or programme]						
182	[Description of material project or programme]						
183	[Description of material project or programme]						
184	<i>*include additional rows if needed</i>						
185	All other projects or programmes - atypical expenditure						
186	Atypical expenditure	-	-	-	-	-	-
187							
188	Expenditure on non-network assets	-	-	-	-	-	-

Company Name **Buller Electricity Limited**
 AMP Planning Period **1 April 2017 – 31 March 2027**

SCHEDULE 11b: REPORT ON FORECAST OPERATIONAL EXPENDITURE

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

sch ref		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10	
	for year ended	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27	
9	Operational Expenditure Forecast	\$000 (in nominal dollars)											
10	Service interruptions and emergencies	265	316	323	329	335	342	349	356	363	371	379	
11	Vegetation management	265	249	176	143	126	128	131	134	137	140	142	
12	Routine and corrective maintenance and inspection	231	397	316	315	290	306	349	316	282	253	298	
13	Asset replacement and renewal	343	264	400	382	390	397	484	460	470	480	553	
14	Network Opex	1,104	1,226	1,214	1,169	1,141	1,173	1,313	1,266	1,253	1,244	1,373	
15	System operations and network support	156	193	197	201	205	208	213	217	222	227	231	
16	Business support	1,995	1,654	1,689	1,719	1,754	1,785	1,823	1,861	1,900	1,940	1,981	
17	Non-network opex	2,150	1,847	1,886	1,920	1,959	1,994	2,036	2,078	2,122	2,167	2,212	
18	Operational expenditure	3,255	3,074	3,100	3,089	3,100	3,167	3,348	3,345	3,375	3,410	3,585	
19		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10	
20	for year ended	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27	
21		\$000 (in constant prices)											
22	Service interruptions and emergencies	265	316	316	316	316	316	316	316	316	316	316	
23	Vegetation management	265	249	172	138	119	119	119	119	119	119	119	
24	Routine and corrective maintenance and inspection	231	397	309	303	274	284	317	281	246	216	249	
25	Asset replacement and renewal	343	264	391	368	368	368	439	409	409	409	462	
26	Network Opex	1,104	1,226	1,189	1,125	1,077	1,087	1,191	1,125	1,090	1,060	1,147	
27	System operations and network support	156	193	193	193	193	193	193	193	193	193	193	
28	Business support	1,637	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654	
29	Non-network opex	1,792	1,847	1,847	1,847	1,847	1,847	1,847	1,847	1,847	1,847	1,847	
30	Operational expenditure	2,896	3,074	3,037	2,972	2,924	2,934	3,039	2,973	2,938	2,908	2,994	
31	Subcomponents of operational expenditure (where known)												
32	Energy efficiency and demand side management, reduction of energy losses												
33	Direct billing*												
34	Research and Development												
35	Insurance	85	103	103	103	103	103	103	103	103	103	103	
37	* Direct billing expenditure by suppliers that direct bill the majority of their consumers												
39		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10	
40	for year ended	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27	
41	Difference between nominal and real forecasts	\$000											
42	Service interruptions and emergencies	-	-	7	12	19	25	32	40	47	55	62	
43	Vegetation management	-	-	4	5	7	9	12	15	18	21	23	
44	Routine and corrective maintenance and inspection	-	-	6	12	16	23	32	35	37	37	49	
45	Asset replacement and renewal	0	-	8	14	22	29	45	51	61	71	91	
46	Network Opex	0	-	25	44	65	86	121	141	162	183	226	
47	System operations and network support	-	-	4	8	12	15	20	24	29	33	38	
48	Business support	358	-	35	65	100	131	169	207	246	286	327	
49	Non-network opex	358	-	39	73	111	146	188	231	275	319	365	
50	Operational expenditure	358	-	64	117	176	233	310	372	437	502	591	

Company Name	Buller Electricity Limited
AMP Planning Period	1 April 2017 – 31 March 2027

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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41	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km							N/A	
42	HV	Distribution Line	SWER conductor	km							N/A	
43	HV	Distribution Cable	Distribution UG XLPE or PVC	km		5.00%	85.00%	10.00%				4
44	HV	Distribution Cable	Distribution UG PILC	km								1
45	HV	Distribution Cable	Distribution Submarine Cable	km							N/A	
46	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.		2.08%	87.50%	10.42%				3
47	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.							N/A	
48	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2.50%	9.00%	64.00%	22.50%	2.00%			2
49	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.							N/A	
50	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	25.00%	12.50%	50.00%	12.50%				3
51	HV	Distribution Transformer	Pole Mounted Transformer	No.	0.17%	3.65%	82.61%	12.87%	0.70%			3
52	HV	Distribution Transformer	Ground Mounted Transformer	No.	1.40%	4.20%	80.40%	14.00%	-			3
53	HV	Distribution Transformer	Voltage regulators	No.			60.00%	40.00%				3
54	HV	Distribution Substations	Ground Mounted Substation Housing	No.		2.70%	52.10%	4.10%	41.10%			3
55	LV	LV Line	LV OH Conductor	km	1.00%	8.00%	85.00%	6.00%				2
56	LV	LV Cable	LV UG Cable	km	-	2.00%	78.00%	19.00%	1.00%			4
57	LV	LV Streetlighting	LV OH/UG Streetlight circuit	km	-	7.00%	83.00%	9.00%	1.00%			2
58	LV	Connections	OH/UG consumer service connections	No.	1.30%	3.90%	85.80%	8.00%	1.00%			2
59	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2.00%	6.00%	72.00%	20.00%				3
60	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	14.00%	35.00%	7.00%	44.00%				2
61	All	Capacitor Banks	Capacitors including controls	No.				100.00%				3
62	All	Load Control	Centralised plant	Lot			100.00%					3
63	All	Load Control	Relays	No.							N/A	
64	All	Civils	Cable Tunnels	km							N/A	

Company Name **Buller Electricity Limited**
 AMP Planning Period **1 April 2017 – 31 March 2027**

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	Robertson Street	11	20	N-1	-	53%	20	55%	No constraint within +5 years	
11	Ngakawau	1	2	N-1 Switched	1	63%	2		No constraint within +5 years	N-1 switched with backup transformer connected (not lived)
12	Kongahu	1	1	N-1 Switched	-	76%	1		No constraint within +5 years	N-1 switched is with backup standby generators constrained to 1.25MVA
13	[Zone Substation_04]					-			[Select one]	
14	[Zone Substation_05]					-			[Select one]	
15	[Zone Substation_06]					-			[Select one]	
16	[Zone Substation_07]					-			[Select one]	
17	[Zone Substation_08]					-			[Select one]	
18	[Zone Substation_09]					-			[Select one]	
19	[Zone Substation_10]					-			[Select one]	
20	[Zone Substation_11]					-			[Select one]	
21	[Zone Substation_12]					-			[Select one]	
22	[Zone Substation_13]					-			[Select one]	
23	[Zone Substation_14]					-			[Select one]	
24	[Zone Substation_15]					-			[Select one]	
25	[Zone Substation_16]					-			[Select one]	
26	[Zone Substation_17]					-			[Select one]	
27	[Zone Substation_18]					-			[Select one]	
28	[Zone Substation_19]					-			[Select one]	
29	[Zone Substation_20]					-			[Select one]	

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

Company Name **Buller Electricity Limited**
 AMP Planning Period **1 April 2017 – 31 March 2027**

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

		Number of connections					
		Current Year CY for year ended 31 Mar 17	CY+1 31 Mar 18	CY+2 31 Mar 19	CY+3 31 Mar 20	CY+4 31 Mar 21	CY+5 31 Mar 22
7	12c(i): Consumer Connections						
8	Number of ICPs connected in year by consumer type						
9							
10							
11	Consumer types defined by EDB*						
12	LG1 Domestic	8	6	6	6	6	6
13	LG1L Domestic Low User	1	5	5	5	5	5
14	LG2 Small Commercial/Industrial	5	3	3	3	3	3
15	LG3 Medium Commercial/Industrial	4	1	1	1	1	1
16							
17	Connections total	18	15	15	15	15	15
18	<i>*include additional rows if needed</i>						
19	Distributed generation						
20	Number of connections	2	4	6	8	10	12
21	Capacity of distributed generation installed in year (MVA)	0	0	0	0	0	0
22	12c(ii) System Demand						
23							
24	Maximum coincident system demand (MW)						
25	GXP demand	7	7	7	7	7	7
26	plus Distributed generation output at HV and above	4	4	4	4	4	4
27	Maximum coincident system demand	11	11	11	11	11	11
28	less Net transfers to (from) other EDBs at HV and above	-	-	-	-	-	-
29	Demand on system for supply to consumers' connection points	11	11	11	11	11	11
30	Electricity volumes carried (GWh)						
31	Electricity supplied from GXPs	41	37	37	37	37	37
32	less Electricity exports to GXPs	-	-	-	-	-	-
33	plus Electricity supplied from distributed generation	13	17	17	17	17	17
34	less Net electricity supplied to (from) other EDBs	-	-	-	-	-	-
35	Electricity entering system for supply to ICPs	54	54	54	54	54	54
36	less Total energy delivered to ICPs	51	50	50	50	50	50
37	Losses	4	4	4	4	4	4
38							
39	Load factor	59%	58%	58%	58%	58%	58%
40	Loss ratio	6.4%	6.5%	6.5%	6.5%	6.5%	6.5%

Company Name	Buller Electricity Limited
AMP Planning Period	1 April 2017 – 31 March 2027
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 17	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22
8								
9								
10	SAIDI							
11	Class B (planned interruptions on the network)		160.1	160.0	160.0	160.0	160.0	160.0
12	Class C (unplanned interruptions on the network)		129.5	130.0	130.0	130.0	130.0	130.0
13	SAIFI							
14	Class B (planned interruptions on the network)		0.60	0.60	0.60	0.60	0.60	0.60
15	Class C (unplanned interruptions on the network)		1.12	1.20	1.20	1.20	1.20	1.20

Company Name	Buller Electricity Ltd
For Year Ended	2017

Schedule 14a Mandatory Explanatory Notes on Forecast Information

1. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.
2. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

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

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

Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts
BEL utilised the Westpac economic forecast summaries to apply an uplift index to the constant prices for all categories to produce the nominal prices.

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

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

Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts
The Westpac economic forecast inflation CPI was used as the inflation factor to uplift nominal prices.



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IN ACCORDANCE WITH THE COMMERCE ACT

Electricity Distribution Information Disclosure Determination 2012

Certification for year beginning Disclosure 2017

We, **Murray Warden FROST** and **Graham Arthur NAYLOR**, being directors of Buller Electricity Limited certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the following attached information of Buller Electricity Limited prepared for the purposes of clauses 2.6.1, 2.6.3, 2.6.6 and 2.7.2 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination.
- b) the prospective financial or nonfinancial information included in the attached information has been measured on a basis consistent with regulatory requirements or recognised industry standards.
- c) The forecasts in Schedules 11a, 11b, 12a, 12b, 12c and 12d are based on objective and reasonable assumptions which both align with Buller Electricity Limited's corporate vision and strategy and are documented in retained records.


.....
Director


.....
Director

Dated: 26 January 2017
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