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

Company Name	Alpine Energy Ltd
Disclosure Date	31 March 2022
AMP Planning Period Start Date (first day)	1 April 2022

Templates for Schedules 11a–13 (Asset Management Plan)
Template Version 4.1. Prepared 21 December 2017

Table of Contents

Information disclosure asset management plan schedules

Disclosure Template Instructions

These templates have been prepared for use by EDBs when making disclosures under subclauses 2.6.1(1)(d), 2.6.1(1)(e), 2.6.1(2), 2.6.5(6), 2.6.6(1) and 2.6.6(2) of the Electricity Distribution Information Disclosure Determination 2012. The EDB may include a completed Schedule 13: Report on Asset Management Maturity table with its disclosures made under subclause 2.6.6(1) and 2.6.6(2), but this is not required. Schedule 13 tables that are not completed should be removed from disclosures made under subclause 2.6.6(1)

Company Name and Dates

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the first day of the 10 year planning period should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.

The cell C12 entry (planning period start date) is used to calculate disclosure years in the column headings that show above some of the tables. It is also used to calculate the AMP planning period dates in the template title blocks (the title blocks are the light green shaded areas at the top of each template).

The cell C8 entry (company name) is used in the template title blocks.

Dates should be entered in day/month/year order (Example -"1 April 2013").

Data Entry Cells and Calculated Cells

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.

In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

Validation Settings on Data Entry Cells

To maintain a consistency of format and to guard against errors in data entry, some data entry cells test entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names or to values between 0% and 100%. Where this occurs, a validation message will appear when data is being entered.

Conditional Formatting Settings on Data Entry Cells

Schedule 12a columns G to K contains conditional formatting. The cells will change colour if the row totals do not add to 100%.

Inserting Additional Rows

The templates for schedules 11a, 12b and 12c may require additional rows to be inserted in tables marked 'include additional rows if needed'.

Additional rows must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals.

For schedule 12b the formula for column J (Utilisation of Installed Firm Capacity %) will need to be copied into the inserted row(s).

Column A schedule references should not be entered in additional rows.

Schedule References

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 21 December 2017). They provide a common reference between the rows in the determination and the template.

Description of Calculation References

Calculation cell formulas contain links to other cells within the same template or elsewhere in the workbook. Key cell references are described in a column to the right of each template. These descriptions are provided to assist data entry. Cell references refer to the row of the template and not the schedule reference.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

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*
8		for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**	**31 Mar 28**	**31 Mar 29**	**31 Mar 30**	**31 Mar 31**	**31 Mar 32**
9	**11a(i): Expenditure on Assets Forecast**		**$000 (in nominal dollars)**										
10		Consumer connection	2,400	4,598	4,820	4,807	3,455	3,751	3,826	4,021	4,162	4,294	4,436
11		System growth	2,921	2,999	669	1,715	5,984	5,877	951	1,325	2,316	2,116	2,159
12		Asset replacement and renewal	10,297	13,433	12,222	12,231	12,765	12,793	13,142	12,955	13,365	13,866	14,269
13		Asset relocations	500	1,463	2,260	1,093	1,114	1,137	1,884	1,183	1,025	984	916
14		Reliability, safety and environment:											
15		Quality of supply											
16		Legislative and regulatory											
17		Other reliability, safety and environment	1,210	1,024	1,044	732	1,003	688	672	1,100	543	554	464
18		**Total reliability, safety and environment**	1,210	1,024	1,044	732	1,003	688	672	1,100	543	554	464
19		**Expenditure on network assets**	17,328	23,517	21,015	20,578	24,321	24,246	20,475	20,584	21,411	21,814	22,244
20		Expenditure on non-network assets	730	2,536	1,178	1,278	1,003	682	371	414	543	394	502
21		**Expenditure on assets**	18,058	26,053	22,193	21,856	25,324	24,928	20,846	20,998	21,954	22,208	22,746
22													
23	*plus*	Cost of financing											
24	*less*	Value of capital contributions	2,400	4,180	4,392	4,370	3,009	3,296	3,362	3,548	3,679	3,802	3,934
25	*plus*	Value of vested assets											
26													
27		**Capital expenditure forecast**	15,658	21,873	17,801	17,486	22,315	21,632	17,484	17,450	18,275	18,406	18,812
28													
29		Assets commissioned	16,978	20,320	18,820	17,565	21,108	21,802	18,521	17,458	18,068	18,374	18,711

			Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*	*CY+6*	*CY+7*	*CY+8*	*CY+9*	*CY+10*
31		for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**	**31 Mar 28**	**31 Mar 29**	**31 Mar 30**	**31 Mar 31**	**31 Mar 32**
32			**$000 (in constant prices)**										
33		Consumer connection	2,400	4,400	4,500	4,400	3,100	3,300	3,300	3,400	3,450	3,490	3,535
34		System growth	2,921	2,870	625	1,570	5,370	5,170	820	1,120	1,920	1,720	1,720
35		Asset replacement and renewal	10,297	12,855	11,410	11,195	11,455	11,255	11,335	10,955	11,080	11,270	11,370
36		Asset relocations	500	1,400	2,110	1,000	1,000	1,000	1,625	1,000	850	800	730
37		Reliability, safety and environment:											
38		Quality of supply	-	-	-	-	-	-					
39		Legislative and regulatory	-	-	-	-	-	-					
40		Other reliability, safety and environment	1,210	980	975	670	900	605	580	930	450	450	370
41		**Total reliability, safety and environment**	1,210	980	975	670	900	605	580	930	450	450	370
42		**Expenditure on network assets**	17,328	22,505	19,620	18,835	21,825	21,330	17,660	17,405	17,750	17,730	17,725
43		Expenditure on non-network assets	730	2,427	1,100	1,170	900	600	320	350	450	320	400
44		**Expenditure on assets**	18,058	24,932	20,720	20,005	22,725	21,930	17,980	17,755	18,200	18,050	18,125
45													
46	**Subcomponents of expenditure on assets (where known)**												
47		Energy efficiency and demand side management, reduction of energy losses											
48		Overhead to underground conversion	500	1,400	2,110	1,000	1,000	1,000	1,625	1,000	850	800	730
49		Research and development											
50													

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

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 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**	**31 Mar 28**	**31 Mar 29**	**31 Mar 30**	**31 Mar 31**	**31 Mar 32**
	Difference between nominal and constant price forecasts	**$000**										
	Consumer connection	-	198	320	407	355	451	526	621	712	804	901
	System growth	-	129	44	145	614	707	131	205	396	396	439
	Asset replacement and renewal	-	578	812	1,036	1,310	1,538	1,807	2,000	2,285	2,596	2,899
	Asset relocations	-	63	150	93	114	137	259	183	175	184	186
	Reliability, safety and environment:											
	Quality of supply	-	-	-	-	-	-	-	-	-	-	-
	Legislative and regulatory	-	-	-	-	-	-	-	-	-	-	-
	Other reliability, safety and environment	-	44	69	62	103	83	92	170	93	104	94
	Total reliability, safety and environment	-	44	69	62	103	83	92	170	93	104	94
	Expenditure on network assets	-	1,012	1,395	1,743	2,496	2,916	2,815	3,179	3,661	4,084	4,519
	Expenditure on non-network assets	-	109	78	108	103	82	51	64	93	74	102
	Expenditure on assets	-	1,121	1,473	1,851	2,599	2,998	2,866	3,243	3,754	4,158	4,621

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
	for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
	11a(ii): Consumer Connection	**$000 (in constant prices)**					
	*Consumer types defined by EDB**						
	Low user charge	120	220	225	220	155	165
	15	336	616	630	616	434	462
	360	288	528	540	528	372	396
	Assessed	552	1,012	1,035	1,012	713	759
	TOU 400 V	1,104	2,024	2,070	2,024	1,426	1,518
	**include additional rows if needed*						
	Consumer connection expenditure	2,400	4,400	4,500	4,400	3,100	3,300
less	Capital contributions funding consumer connection	2,000	3,600	3,700	3,600	2,300	2,500
	Consumer connection less capital contributions	400	800	800	800	800	800
	11a(iii): System Growth						
	Subtransmission	-	-	-	-	-	-
	Zone substations	1,201	-	-	450	4,750	4,000
	Distribution and LV lines	-	-	-	-	-	-
	Distribution and LV cables	1,300	450	500	1,000	300	1,050
	Distribution substations and transformers	120	2,420	120	120	120	120
	Distribution switchgear	150	-	-	-	-	-
	Other network assets	150	-	5	-	200	-
	System growth expenditure	2,921	2,870	625	1,570	5,370	5,170
less	Capital contributions funding system growth	200	200	200	200	200	200
	System growth less capital contributions	2,721	2,670	425	1,370	5,170	4,970

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

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

11a(iv): Asset Replacement and Renewal

			Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
		for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
		$000 (in constant prices)						
	Subtransmission		180	-	-	-	-	-
	Zone substations		250	1,480	1,700	190	850	285
	Distribution and LV lines		6,150	7,910	4,755	7,190	6,350	7,550
	Distribution and LV cables		600	-	300	140	-	-
	Distribution substations and transformers		1,950	1,490	2,010	2,160	2,010	2,010
	Distribution switchgear		50	1,110	1,190	1,150	1,150	1,100
	Other network assets		1,117	865	1,455	365	1,095	310
	Asset replacement and renewal expenditure		10,297	12,855	11,410	11,195	11,455	11,255
less	Capital contributions funding asset replacement and renewal		200	200	200	200	200	200
	Asset replacement and renewal less capital contributions		10,097	12,655	11,210	10,995	11,255	11,055

11a(v): Asset Relocations

			Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
		for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
	*Project or programme**	**$000 (in constant prices)**						
	Overhead to Underground conversions		500	1,400	2,110	1,000	1,000	1,000
	[Description of material project or programme]		-	-	-	-	-	-
	[Description of material project or programme]		-	-	-	-	-	-
	[Description of material project or programme]		-	-	-	-	-	-
	[Description of material project or programme]		-	-	-	-	-	-
	*include additional rows if needed							
	All other project or programmes - asset relocations							
	Asset relocations expenditure		500	1,400	2,110	1,000	1,000	1,000
less	Capital contributions funding asset relocations							
	Asset relocations less capital contributions		500	1,400	2,110	1,000	1,000	1,000

11a(vi): Quality of Supply

			Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
		for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
	*Project or programme**	**$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]							
	*include additional rows if needed							
	All other projects or programmes - quality of supply							
	Quality of supply expenditure		-	-	-	-	-	-
less	Capital contributions funding quality of supply							
	Quality of supply less capital contributions		-	-	-	-	-	-

Company Name **Alpine Energy Ltd**
AMP Planning Period **1 April 2022 – 31 March 2032**

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*
135	for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
136							
137	**11a(vii): Legislative and Regulatory**						
138	*Project or programme**	**$000 (in constant prices)**					
139	[Description of material project or programme]						
140	[Description of material project or programme]						
141	[Description of material project or programme]						
142	[Description of material project or programme]						
143	[Description of material project or programme]						
144	*include additional rows if needed						
145	All other projects or programmes - legislative and regulatory						
146	**Legislative and regulatory expenditure**	-	-	-	-	-	-
147	*less* Capital contributions funding legislative and regulatory						
148	**Legislative and regulatory less capital contributions**	-	-	-	-	-	-
149							
		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
150	for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
151	**11a(viii): Other Reliability, Safety and Environment**						
152	*Project or programme**	**$000 (in constant prices)**					
153	SCADA and Comms	615	410	605	270	500	180
154	Softwood pole replacement	210	160	160	160	160	160
155	Reclosers, automation & RMUs	310	260	210	210	210	235
156	Zone sub arc flash & ventilation	75	-	-	-	-	-
157	AMG Circuit Breaker	-	150	-	-	-	-
	Substation Security Video Monitoring	-	-	-	30	30	30
158	*include additional rows if needed						
159	All other projects or programmes - other reliability, safety and environment						
160	**Other reliability, safety and environment expenditure**	1,210	980	975	670	900	605
161	*less* Capital contributions funding other reliability, safety and environment						
162	**Other reliability, safety and environment less capital contributions**	1,210	980	975	670	900	605
163							
		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
164	for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
165							
166	**11a(ix): Non-Network Assets**						
167	**Routine expenditure**						
168	*Project or programme**	**$000 (in constant prices)**					
169	IT	500	1,050	1,000	1,000	750	500
170	Equipment	20	27	-	-	-	-
171	Vehicles	-	350	100	170	150	100
172	[Description of material project or programme]						
173	[Description of material project or programme]						
174	*include additional rows if needed						
175	All other projects or programmes - routine expenditure						
176	**Routine expenditure**	520	1,427	1,100	1,170	900	600
177	**Atypical expenditure**						
178	*Project or programme**						
179	Property	210	1,000	-	-	-	-
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	*include additional rows if needed						
185	All other projects or programmes - atypical expenditure						
186	**Atypical expenditure**	210	1,000	-	-	-	-
187							
188	**Expenditure on non-network assets**	730	2,427	1,100	1,170	900	600

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

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
8	for year ended	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27	31 Mar 28	31 Mar 29	31 Mar 30	31 Mar 31	31 Mar 32
9	**Operational Expenditure Forecast**	**$000 (in nominal dollars)**										
10	Service interruptions and emergencies	2,045	2,137	2,190	2,234	2,279	2,325	2,371	2,418	2,467	2,516	2,566
11	Vegetation management	820	857	878	896	914	932	951	970	989	1,009	1,029
12	Routine and corrective maintenance and inspection	3,330	3,480	3,567	3,638	3,711	3,785	3,861	3,938	4,017	4,097	4,179
13	Asset replacement and renewal	290	303	311	317	323	330	336	343	350	357	364
14	**Network Opex**	6,485	6,777	6,946	7,085	7,227	7,372	7,519	7,669	7,823	7,979	8,138
15	System operations and network support	4,886	6,333	6,324	6,495	6,648	6,807	6,994	7,130	7,307	7,509	7,720
16	Business support	9,038	16,179	17,580	17,864	17,769	17,985	18,049	18,227	18,130	18,214	18,196
17	**Non-network opex**	13,924	22,512	23,904	24,359	24,417	24,792	25,043	25,357	25,437	25,723	25,916
18	**Operational expenditure**	20,409	29,289	30,850	31,444	31,644	32,164	32,562	33,026	33,260	33,702	34,054

		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 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27	31 Mar 28	31 Mar 29	31 Mar 30	31 Mar 31	31 Mar 32
21		**$000 (in constant prices)**										
22	Service interruptions and emergencies	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,045
23	Vegetation management	820	820	820	820	820	820	820	820	820	820	820
24	Routine and corrective maintenance and inspection	3,330	3,330	3,330	3,330	3,330	3,330	3,330	3,330	3,330	3,330	3,330
25	Asset replacement and renewal	290	290	290	290	290	290	290	290	290	290	290
26	**Network Opex**	6,485	6,485	6,485	6,485	6,485	6,485	6,485	6,485	6,485	6,485	6,485
27	System operations and network support	4,886	6,060	5,904	5,945	5,966	5,989	6,032	6,029	6,057	6,103	6,151
28	Business support	9,038	15,482	16,413	16,351	15,945	15,822	15,567	15,413	15,030	14,803	14,499
29	**Non-network opex**	13,924	21,542	22,317	22,296	21,911	21,811	21,599	21,442	21,087	20,906	20,650
30	**Operational expenditure**	20,409	28,027	28,802	28,781	28,396	28,296	28,084	27,927	27,572	27,391	27,135
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	315	315	315	315	315	315	315	315	315	315	315
36	** 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
38	for year ended	31 Mar 22	31 Mar 23	31 Mar 24	31 Mar 25	31 Mar 26	31 Mar 27	31 Mar 28	31 Mar 29	31 Mar 30	31 Mar 31	31 Mar 32
39	**Difference between nominal and real forecasts**	**$000**										
40	Service interruptions and emergencies	-	92	145	189	234	280	326	373	422	471	521
41	Vegetation management	-	37	58	76	94	112	131	150	169	189	209
42	Routine and corrective maintenance and inspection	-	150	237	308	381	455	531	608	687	767	849
43	Asset replacement and renewal	-	13	21	27	33	40	46	53	60	67	74
44	**Network Opex**	-	292	461	600	742	887	1,034	1,184	1,338	1,494	1,653
45	System operations and network support	-	273	420	550	682	818	962	1,101	1,250	1,406	1,569
46	Business support	-	697	1,167	1,513	1,824	2,163	2,482	2,814	3,100	3,411	3,697
47	**Non-network opex**	-	970	1,587	2,063	2,506	2,981	3,444	3,915	4,350	4,817	5,266
48	**Operational expenditure**	-	1,262	2,048	2,663	3,248	3,868	4,478	5,099	5,688	6,311	6,919

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

SCHEDULE 12a: REPORT ON ASSET CONDITION

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

sch ref

						Asset condition at start of planning period (percentage of units by grade)							
	Voltage	Asset category	Asset class	Units	H1	H2	H3	H4	H5	Grade unknown	Data accuracy (1–4)	% of asset forecast to be replaced in next 5 years
10	All	Overhead Line	Concrete poles / steel structure	No.	0.43%	-	26.75%	38.30%	34.52%		3	0.50%
11	All	Overhead Line	Wood poles	No.	2.40%	10.90%	43.00%	17.90%	25.80%		3	3.00%
12	All	Overhead Line	Other pole types	No.							[Select one]	
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	2.23%	31.05%	28.79%	37.93%		3	-
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km							[Select one]	
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0.10%	-	0.32%	3.93%	95.65%		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.		-	16.00%	32.00%	52.00%		3	-
25	HV	Zone substation Buildings	Zone substations 110kV+	No.							[Select one]	
26	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.					100.00%		4	-
27	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	5.00%	5.00%	16.00%	16.00%	58.00%		4	5.00%
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.					100.00%		4	-
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	8.00%	24.00%	14.00%	6.00%	48.00%		3	5.00%
30	HV	Zone substation switchgear	33kV RMU	No.					100.00%		4	-
31	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.							[Select one]	
32	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.					100.00%		4	-
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	4.82%		4.22%	19.28%	71.68%		3	5.00%
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.				37.50%	62.50%		3	-

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

SCHEDULE 12a: REPORT ON ASSET CONDITION

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

sch ref					**Asset condition at start of planning period (percentage of units by grade)**							
	Voltage	**Asset category**	**Asset class**	**Units**	**H1**	**H2**	**H3**	**H4**	**H5**	**Grade unknown**	**Data accuracy (1–4)**	**% of asset forecast to be replaced in next 5 years**
39	HV	Zone Substation Transformer	Zone Substation Transformers	No.			26.92%	7.69%	65.39%		4	4.00%
40	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1.00%	35.00%	23.00%	13.00%	28.00%		3	2.00%
41	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km							[Select one]	
42	HV	Distribution Line	SWER conductor	km		100.00%					3	-
43	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0.28%	0.36%	1.39%	5.49%	92.48%		3	0.50%
44	HV	Distribution Cable	Distribution UG PILC	km	-	-	0.04%	77.42%	22.54%		3	-
45	HV	Distribution Cable	Distribution Submarine Cable	km							[Select one]	
46	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.			9.09%	36.36%	54.55%		3	-
47	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.							[Select one]	
48	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	14.00%	5.50%	5.20%	14.00%	61.30%		2	5.00%
49	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	18.00%	27.00%	55.00%		3	-
50	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1.89%	20.05%	23.58%	15.33%	39.15%		3	2.00%
51	HV	Distribution Transformer	Pole Mounted Transformer	No.	0.89%	31.33%	21.93%	27.08%	18.77%		3	1.00%
52	HV	Distribution Transformer	Ground Mounted Transformer	No.	0.38%	12.23%	21.80%	37.82%	27.77%		3	1.00%
53	HV	Distribution Transformer	Voltage regulators	No.				11.76%	88.24%		4	-
54	HV	Distribution Substations	Ground Mounted Substation Housing	No.							[Select one]	
55	LV	LV Line	LV OH Conductor	km	23.09%	8.81%	44.43%	19.64%	4.03%		2	2.00%
56	LV	LV Cable	LV UG Cable	km	0.10%	3.07%	19.62%	45.37%	31.84%		2	1.00%
57	LV	LV Streetlighting	LV OH/UG Streetlight circuit	km							[Select one]	
58	LV	Connections	OH/UG consumer service connections	No.							[Select one]	
59	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2.00%	-	7.00%	50.00%	41.00%		4	2.00%
60	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	17.47%	13.25%	7.83%	4.22%	57.23%		2	5.00%
61	All	Capacitor Banks	Capacitors including controls	No.				47.06%	52.94%		3	-
62	All	Load Control	Centralised plant	Lot		13.50%	14.50%	13.00%	59.00%		3	16.00%
63	All	Load Control	Relays	No.							N/A	
64	All	Civils	Cable Tunnels	km					100.00%		4	-

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

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

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)	Utilisation of Installed Firm Capacity + 5yrs %	Installed Firm Capacity Constraint +5 years (cause)	Explanation
Albury (ABY)	4.3		N		-	-	-	No constraint within +5 years	Meets Alpine security standard
Old Man Rage (OMR)	0.38		N		-	-	-	No constraint within +5 years	Balmoral sub decommissioned in 2019
Bells Pond (BPD)	15.05	20	N-1		75%	20	132%	Transformer	T1 installed FY18/19, T2 to be upgraded to provide N-1 security of supply
Clandeboye 1 (CD1)	13.96	20	N-1		70%	30	60%	Transformer	Upgrade transformers to restore N-1 security of supply
Clandeboye 2 (CD2)	20.07	25	N-1		80%	25	101%	No constraint within +5 years	Meets Alpine Security standard due to sufficient 11 kV backup
Cooney's Road (CNR)	4.64		N	1.8/0.8/0.6*	-	-	-	No constraint within +5 years	Meets Alpine security standard
Fairlie (FLE)	2.98		N		-	-	-	No constraint within +5 years	Meets Alpine security standard
Geraldine (GLD)	6.87		N		-	-	-	No constraint within +5 years	Meets Alpine security standard
Haldon Lilybank (HLB)	0.48		N		-	-	-	No constraint within +5 years	Meets Alpine security standard
Pareora (PAR)	9.68	15	N-1		65%	15	76%	No constraint within +5 years	Meets Alpine security standard
Pleasant Point (PLP)	4.96		N		-	-	-	No constraint within +5 years	Meets Alpine security standard
Rangitata (RGA)	10.64	10	N-1		106%	10	125%	Subtransmission circuit	Line capacity constraint, sufficient 11 kV backup in place
Studholme (STU)	15.13	10	N-1		151%	10	168%	Transpower	Transpower two 11 MVA transformers, load shedding/shift required
Tekapo Village (TEK)	4.65		N		-	15	66%	Transformer	Transformer upgrades in FY21/22 and the TEK substation option of constructing a "twin" substation to provide N-1 security of supply
Temuka (TMK)	14.55	25	N-1		58%	25	70%	No constraint within +5 years	Meets Alpine Security standard
Timaru 11/33 kV (TIM)	16.64		N		-	-	-	No constraint within +5 years	Meets Alpine Security standard
Twizel Village (TVS)	3.99		N		-	-	-	No constraint within +5 years	Options being assessed to upgrade installed firm capacity
Unwin Hut (UHT)	1.02		N		-	-	-	No constraint within +5 years	Meets Alpine security standard
					-				

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

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**

SCHEDULE 12C: REPORT ON FORECAST NETWORK DEMAND

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

sch ref

12c(i): Consumer Connections

Number of ICPs connected in year by consumer type

Number of connections

	for year ended	*Current Year CY* **31 Mar 22**	*CY+1* **31 Mar 23**	*CY+2* **31 Mar 24**	*CY+3* **31 Mar 25**	*CY+4* **31 Mar 26**	*CY+5* **31 Mar 27**
*Consumer types defined by EDB**							
Low Charge		12,696	12,807	12,919	13,033	13,147	13,263
Low Uncontrolled		59	59	60	60	61	61
015		17,962	18,120	18,279	18,439	18,601	18,764
015 Uncontrolled		77	77	78	79	79	80
360		1,286	1,297	1,308	1,320	1,331	1,343
360 Uncontrolled		30	31	31	31	31	32
Assessed		1,725	1,740	1,755	1,770	1,786	1,802
TOU 400V		140	141	143	144	145	146
TOU 11kV		10	10	10	10	10	11
IND		12	12	12	12	13	13
Connections total		33,995	34,294	34,595	34,899	35,205	35,514

**include additional rows if needed*

Distributed generation

Number of connections		528	588	648	709	769	829
Capacity of distributed generation installed in year (MVA)		3	3	3	3	4	4

12c(ii) System Demand

	for year ended	*Current Year CY* **31 Mar 22**	*CY+1* **31 Mar 23**	*CY+2* **31 Mar 24**	*CY+3* **31 Mar 25**	*CY+4* **31 Mar 26**	*CY+5* **31 Mar 27**
Maximum coincident system demand (MW)							
GXP demand		146	148	151	153	155	157
plus Distributed generation output at HV and above							
Maximum coincident system demand		146	148	151	153	155	157
less Net transfers to (from) other EDBs at HV and above							
Demand on system for supply to consumers' connection points		146	148	151	153	155	157
Electricity volumes carried (GWh)							
Electricity supplied from GXPs		829	831	833	835	837	838
less Electricity exports to GXPs		10	10	10	10	10	10
plus Electricity supplied from distributed generation		18	18	18	18	19	19
less Net electricity supplied to (from) other EDBs							
Electricity entering system for supply to ICPs		837	839	841	843	846	847
less Total energy delivered to ICPs		802	804	806	808	810	811
Losses		35	35	35	35	36	36
Load factor		65%	65%	64%	63%	62%	62%
Loss ratio		4.2%	4.2%	4.2%	4.2%	4.3%	4.3%

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
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							
8		*Current Year CY*	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
9	for year ended	**31 Mar 22**	**31 Mar 23**	**31 Mar 24**	**31 Mar 25**	**31 Mar 26**	**31 Mar 27**
10	**SAIDI**						
11	Class B (planned interruptions on the network)	65.7	55.0	55.0	55.0	55.0	55.0
12	Class C (unplanned interruptions on the network)	87.9	91.9	91.9	91.9	91.9	91.9
13	**SAIFI**						
14	Class B (planned interruptions on the network)	0.35	0.70	0.70	0.70	0.70	0.70
15	Class C (unplanned interruptions on the network)	0.89	1.20	1.20	1.20	1.20	1.20

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	3	Asset management policy, section 2.5.2	We have implemented an asset management policy as part of the development of our AMF. All asset managers and teams have been made aware of this policy.	Widely used AM practice standards require an organisation to document, authorise and communicate its asset management policy (eg, as required in PAS 55 para 4.2 i). A key pre-requisite of any robust policy is that the organisation's top management must be seen to endorse and fully support it. Also vital to the effective implementation of the policy, is to tell the appropriate people of its content and their obligations under it. Where an organisation outsources some of its asset-related activities, then these people and their organisations must equally be made aware of the policy's content. Also, there may be other stakeholders, such as regulatory authorities and shareholders who should be made aware of it.	Top management. The management team that has overall responsibility for asset management.	The organisation's asset management policy, its organisational strategic plan, documents indicating how the asset management policy was based upon the needs of the organisation and evidence of communication.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	2	AM Policy, AM Strategy	AM strategy is available, aligns with AM policy, as well as other policies. Strategic objectives identified and documented.	In setting an organisation's asset management strategy, it is important that it is consistent with any other policies and strategies that the organisation has and has taken into account the requirements of relevant stakeholders. This question examines to what extent the asset management strategy is consistent with other organisational policies and strategies (eg, as required by PAS 55 para 4.3.1 b) and has taken account of stakeholder requirements as required by PAS 55 para 4.3.1 c). Generally, this will take into account the same polices, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of detail.	Top management. The organisation's strategic planning team. The management team that has overall responsibility for asset management.	The organisation's asset management strategy document and other related organisational policies and strategies. Other than the organisation's strategic plan, these could include those relating to health and safety, environmental, etc. Results of stakeholder consultation.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	2	Life cycle strategies for planning, maintenance, operations, and delivery are in draft format within the asset management framework (see section 4.1).	The fourth tier of the asset management framework will detail fleet strategies of all asset types, including non-network assets. Currently, parts of this are contained in Chapter 6 of the AMP.	Good asset stewardship is the hallmark of an organisation compliant with widely used AM standards. A key component of this is the need to take account of the lifecycle of the assets, asset types and asset systems. (For example, this requirement is recognised in 4.3.1 d) of PAS 55). This question explores what an organisation has done to take lifecycle into account in its asset management strategy.	Top management. People in the organisation with expert knowledge of the assets, asset types, asset systems and their associated life-cycles. The management team that has overall responsibility for asset management. Those responsible for developing and adopting methods and processes used in asset management	The organisation's documented asset management strategy and supporting working documents.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?	3	We have implemented our EAM system and integrated it with our GIS. We have set up maintenance schedules for most asset types. Chapter 4 and 6 of the AMP.	We are developing our AMS, which includes completing our AMF and maintenance schedules for all asset types. When the AMF is completed, the AMP will better reflect the life cycle activities of all assets. Draft fleet strategies for all major asset types have been developed.	The asset management strategy need to be translated into practical plan(s) so that all parties know how the objectives will be achieved. The development of plan(s) will need to identify the specific tasks and activities required to optimize costs, risks and performance of the assets and/or asset system(s), when they are to be carried out and the resources required.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers.	The organisation's asset management plan(s).

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	3	Copies of our AMP are available to all interested parties. Company-wide communication is through a mini-business unit (MBU) principle in accordance with lean management practices. As such all MBUs have interaction and communication with one another. Business objectives and KPIs are managed through relationship agreements between teams (MBUs).	We circulate a copy of our AMP to our principal contractor, shareholders, large consumers, and key staff. A copy of our AMP is available at reception and on our website. However, we do not meet with large consumers or other smaller contractors; We leave it to stakeholders to read and interpret the AMP themselves.	Plans will be ineffective unless they are communicated to all those, including contracted suppliers and those who undertake enabling function(s). The plan(s) need to be communicated in a way that is relevant to those who need to use them.	The management team with overall responsibility for the asset management system. Delivery functions and suppliers.	Distribution lists for plan(s). Documents derived from plan(s) which detail the receivers role in plan delivery. Evidence of communication.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	3	Master Services Agreement with NETcon Position descriptions of all asset management roles Standard forms of contract ie. NZ 3910 Delegated authority for expenditure is managed through a policy and implemented via our EAM system	All asset management related position descriptions details requirements of the role in the asset management process. All external contracts for major projects are conducted under a standard form of contract, mainly NZ 3910 and in one instance in the past under the NEC3 form of contract. The Master Services Agreement with our in-house service provider details engagement and delivery.	The implementation of asset management plan(s) relies on (1) actions being clearly identified, (2) an owner allocated and (3) that owner having sufficient delegated responsibility and authority to carry out the work required. It also requires alignment of actions across the organisation. This question explores how well the plan(s) set out responsibility for delivery of asset plan actions.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team.	The organisation's asset management plan(s). Documentation defining roles and responsibilities of individuals and organisational departments.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	3	We involve our main service provider during the planning phase for the upcoming works program. We have fortnightly progress and planning meetings to discuss the works program and ensure all relevant teams and departments are informed. Our service providers price all major projects for evaluation before jobs are issued. All projects and jobs are captured against relevant assets within our EAM system. We have a Master Services Agreement with our main service provider (Netcon) regarding works program delivery. Business Process Maps are being developed for our new EAM system.	Since 2005 we have recruited additional staff to ensure that our work plan can be completed. For example, in 2005, we had one network engineer and eight support staff. In 2012 we had grown to six network engineers and twelve support staff. The Board approves unplanned works and notes monthly variances between budgeted and actual expenditure. We maintain a competency register for all service providers. We meet every two weeks with the main service providers to measure the progress of the workplan with physical completion.	It is essential that the plan(s) are realistic and can be implemented, which requires appropriate resources to be available and enabling mechanisms in place. This question explores how well this is achieved. The plan(s) not only need to consider the resources directly required and timescales, but also the enabling activities, including for example, training requirements, supply chain capability and procurement timescales.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team. If appropriate, the performance management team. Where appropriate the procurement team and service providers working on the organisation's asset-related activities.	The organisation's asset management plan(s). Documented processes and procedures for the delivery of the asset management plan.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	**4**	1. H&S Management System includes a section on Reporting and Monitoring (Section 10). 2. Emergency Preparedness Plan, addendum A4 3. Network Policy Public Safety Management System 4. Participant Outage Plan, chapter 4 5. Specific documents on the Network Folder for contingency planning 6. AMP section 7.3.5 7. Risk Register in the Health and Safety Vault database.	We have a comprehensive Emergency Preparedness Plan that supports us in managing the continuity of critical asset management activity in an emergency event. Our plan is part of our Public Safety Management System, which ensures consistency between our policies and strategies around asset management objectives.	Widely used AM practice standards require that an organisation has plan(s) to identify and respond to emergency situations. Emergency plan(s) should outline the actions to be taken to respond to specified emergency situations and ensure continuity of critical asset management activities including the communication to, and involvement of, external agencies. This question assesses if, and how well, these plan(s) triggered, implemented and resolved in the event of an incident. The plan(s) should be appropriate to the level of risk as determined by the organisation's risk assessment methodology. It is also a requirement that relevant personnel are competent and trained.	The manager with responsibility for developing emergency plan(s). The organisation's risk assessment team. People with designated duties within the plan(s) and procedure(s) for dealing with incidents and emergency situations.	The organisation's plan(s) and procedure(s) for dealing with emergencies. The organisation's risk assessments and risk registers.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	**3**	1. Detailed position descriptions for the GM-Asset Management and GM-Service Delivery and all direct reports 2. Chapter 2 of our AMP includes detailed discussion of our accountabilities for asset management 3. AEL Organisational Chart 4. BPMs 5. Safety Management System audit reports 6. Board meeting minutes on staffing levels and current / future competency requirements 7. Master Services Agreement with NETcon. 8. Our AMF as detailed in section 4.2 of the AMP.	The roles and responsibilities, selection criteria, and review processes for the appointment of asset management team members are documented but not reviewed against strategies and objectives. Communication is through the MBU process.	In order to ensure that the organisation's assets and asset systems deliver the requirements of the asset management policy, strategy and objectives responsibilities need to be allocated to appropriate people who have the necessary authority to fulfil their responsibilities. (This question, relates to the organisation's assets eg, para b), s 4.4.1 of PAS 55, making it therefore distinct from the requirement contained in para a), s 4.4.1 of PAS 55).	Top management. People with management responsibility for the delivery of asset management policy, strategy, objectives and plan(s). People working on asset-related activities.	Evidence that managers with responsibility for the delivery of asset management policy, strategy, objectives and plan(s) have been appointed and have assumed their responsibilities. Evidence may include the organisation's documents relating to its asset management system, organisational charts, job descriptions of post-holders, annual targets/objectives and personal development plan(s) of post-holders as appropriate.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	**2**	1. Master Services Agreement with NETcon 2. AMP, chapter 2 3. BPM of HR processes 4. Board reports and meeting minutes discussing budgets, variance analysis, staff structures/requirements, and CAPEX and OPEX spending	Our new asset management and service delivery teams structure and associated position descriptions, our implementation of EAM, GIS and SCADA systems. Expansion of our Business Systems team.	Optimal asset management requires top management to ensure sufficient resources are available. In this context the term 'resources' includes manpower, materials, funding and service provider support.	Top management. The management team that has overall responsibility for asset management. Risk management team. The organisation's managers involved in day-to-day supervision of asset-related activities, such as frontline managers, engineers, foremen and chargehands as appropriate.	Evidence demonstrating that asset management plan(s) and/or the process(es) for asset management plan implementation consider the provision of adequate resources in both the short and long term. Resources include funding, materials, equipment, services provided by third parties and personnel (internal and service providers) with appropriate skills competencies and knowledge.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	**3**	1. Schedule 13 Senior management meeting notes 2. Network meeting notes 3. Job descriptions of senior management 4. Board reports and meeting minutes 5. Master Services Agreement meetings held with NETcon 6. Hard copies of standards manuals 7. The EAM system contains a schedule of delegated authorities 8. Emergency recovery and disaster response arrangements. 9. Communication through MBUs.	Network CAPEX and OPEX are covered as standing agenda items at the fortnightly Network managers' meetings. The delivery program is the main agenda item at the Master Services Agreement meetings. Monthly expenditure is captured in the board report.	Widely used AM practice standards require an organisation to communicate the importance of meeting its asset management requirements such that personnel fully understand, take ownership of, and are fully engaged in the delivery of the asset management requirements (eg, PAS 55 s 4.4.1 g).	Top management. The management team that has overall responsibility for asset management. People involved in the delivery of the asset management requirements.	Evidence of such activities as road shows, written bulletins, workshops, team talks and management walk-abouts would assist an organisation to demonstrate it is meeting this requirement of PAS 55.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	**3**	1. NETcon Master Services Agreement 2. Contracts for delivery in accordance with AS/NZS 3910. 3. TechnologyOne ERP software generates automated reports and documented processes for most asset management activities. 4. New connection sign off sheets.	We have a Master Services Agreement with our preferred contractor, NETcon. The GM-Services Delivery meets regularly with contractors to discuss performance, operational progress and other relevant issues. Fortnightly meetings with service providers review defects and red tag pole register.	Where an organisation chooses to outsource some of its asset management activities, the organisation must ensure that these outsourced process(es) are under appropriate control to ensure that all the requirements of widely used AM standards (eg, PAS 55) are in place, and the asset management policy, strategy objectives and plan(s) are delivered. This includes ensuring capabilities and resources across a time span aligned to life cycle management. The organisation must put arrangements in place to control the outsourced activities, whether it be to external providers or to other in-house departments. This question explores what the organisation does in this regard.	Top management. The management team that has overall responsibility for asset management. The manager(s) responsible for the monitoring and management of the outsourced activities. People involved with the procurement of outsourced activities. The people within the organisations that are performing the outsourced activities. The people impacted by the outsourced activity.	The organisation's arrangements that detail the compliance required of the outsourced activities. For example, this this could form part of a contract or service level agreement between the organisation and the suppliers of its outsourced activities. Evidence that the organisation has demonstrated to itself that it has assurance of compliance of outsourced activities.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	3	1. People & Culture team maintains staff training records and a Competency Matrix 2. EEA meeting attendance records 3. People & Culture team plans include HR BPMs. 4. Position descriptions. 5. Draft succession plan/strategy under development.	Our asset management and services delivery teams' structure with line managers and teams focuses on planning, delivery, maintenance and operations, accounting for all asset life cycle stages. The team numbers were based on consultation with our peers and in accordance with the current and medium-term workload in our AMP.	There is a need for an organisation to demonstrate that it has considered what resources are required to develop and implement its asset management system. There is also a need for the organisation to demonstrate that it has assessed what development plan(s) are required to provide its human resources with the skills and competencies to develop and implement its asset management systems. The timescales over which the plan(s) are relevant should be commensurate with the planning horizons within the asset management strategy considers e.g. if the asset management strategy considers 5, 10 and 15 year time scales then the human resources development plan(s) should align with these. Resources include both 'in house' and external resources who undertake asset management activities.	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of analysis of future work load plan(s) in terms of human resources. Document(s) containing analysis of the organisation's own direct resources and contractors resource capability over suitable timescales. Evidence, such as minutes of meetings, that suitable management forums are monitoring human resource development plan(s). Training plan(s), personal development plan(s), contract and service level agreements.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?	3	1. AEL Network Access Policy 2. Competency Matrix training plan. 3. Chartered Professional Engineers Act 2002. 4. People & Culture team recods training requirements as part of staff development reviews, for which targeted training is arranged.	For our contractors, we hold a comprehensive database for all staff. We identify the training requirements by considering the planned work programme and the competencies required by the work to be carried out. Enduring competency requirements are linked to our AMPs will be a function of our Master Services Agreement with NETcon. We have bi-annual development reviews where managers and staff are given the opportunity to discuss and plan training and development for the immediate future.	Widely used AM standards require that organisations to undertake a systematic identification of the asset management awareness and competencies required at each level and function within the organisation. Once identified the training required to provide the necessary competencies should be planned for delivery in a timely and systematic way. Any training provided must be recorded and maintained in a suitable format. Where an organisation has contracted service providers in place then it should have a means to demonstrate that this requirement is being met for their employees. (eg, PAS 55 refers to frameworks suitable for identifying competency requirements).	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of an established and applied competency requirements assessment process and plan(s) in place to deliver the required training. Evidence that the training programme is part of a wider, co-ordinated asset management activities training and competency programme. Evidence that training activities are recorded and that records are readily available (for both direct and contracted service provider staff) e.g. via organisation wide information system or local records database.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	3	1. AEL Asset Management Policy chapters 2 and 7 2. Competency Matrix Training Records 3. BPM for AEL HR processes 4. NETcon Master Services Agreement 5. The AEL Safety Management System (SMS) audit reports. 6. Personal development plans in place. 7. Position description of personal requirements and qualifications.	Every position on our network department structure has a newly created or revised position description. Many of these positions are newly appointed through a rigorous process where skills and experience are matched to the requirements of the various roles. All candidates are presented with the same technical and soft skill questions and are required to provide real examples from their work history to substantiate or demonstrate their skills. An evaluation matrix is filled out where scores are awarded for all competency requirements as required in the position description. An offer is made to the candidate with the highest score, provided the minimum threshold score is met.	A critical success factor for the effective development and implementation of an asset management system is the competence of persons undertaking these activities. organisations should have effective means in place for ensuring the competence of employees to carry out their designated asset management function(s). Where an organisation has contracted service providers undertaking elements of its asset management system then the organisation shall assure itself that the outsourced service provider also has suitable arrangements in place to manage the competencies of its employees. The organisation should ensure that the individual and corporate competencies it requires are in place and actively monitor, develop and maintain an appropriate balance of these competencies.	Managers, supervisors, persons responsible for developing training programmes. Staff responsible for procurement and service agreements. HR staff and those responsible for recruitment.	Evidence of a competency assessment framework that aligns with established frameworks such as the asset management Competencies Requirements Framework (Version 2.0); National Occupational Standards for Management and Leadership; UK Standard for Professional Engineering Competence, Engineering Council, 2005.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	3	1. Asset Management Policy 2. AMP 3. NETcon Master Services Agreement and meetings 4. Senior management job descriptions and meetings. 5. Communication through MBU process and regular meetings.	Our AMP is made available to all staff on our internet and hard copies are distributed to the asset management and engineering teams. We meet with our contractors each month to discuss the progression of the works programme. We hold regular shareholder meetings where our asset management programme can be discussed. Our stakeholder engagement, for consumers tends to be ad hoc. We will need to improve our communications to better our score.	Widely used AM practice standards require that pertinent asset management information is effectively communicated to and from employees and other stakeholders including contracted service providers. Pertinent information refers to information required in order to effectively and efficiently comply with and deliver asset management strategy, plan(s) and objectives. This will include for example the communication of the asset management policy, asset performance information, and planning information as appropriate to contractors.	Top management and senior management representative(s), employee's representative(s), employee's trade union representative(s); contracted service provider management and employee representative(s); representative(s) from the organisation's Health, Safety and Environmental team. Key stakeholder representative(s).	Asset management policy statement prominently displayed on notice boards, intranet and internet; use of organisation's website for displaying asset performance data; evidence of formal briefings to employees, stakeholders and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service provider contract meetings; newsletters, etc.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	3	1. Asset Management Framework 2. Asset Management Policy, Strategy and lifecycle strategies. 3. MBU partnership agreements with objectives and KPIs.	We have completed the mapping of our processes under our BPM project. Copies of all BPMs are available to staff on our intranet. We are continuing to new BPMs to align with our new EAM system. MBU customer and supplier relationships are identified on MBU charts.	Widely used AM practice standards require an organisation maintain up to date documentation that ensures that its asset management systems (ie, the systems the organisation has in place to meet the standards) can be understood, communicated and operated. (eg, s 4.5 of PAS 55 requires the maintenance of up to date documentation of the asset management system requirements specified throughout s 4 of PAS 55).	The management team that has overall responsibility for asset management. Managers engaged in asset management activities.	The documented information describing the main elements of the asset management system (process(es)) and their interaction.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	3	1. Asset attributes identified and documented in GIS and EAM. 2. Approved asset information audit project. 3. Deloitte's strategic IT review. 4. Business cases for relevant projects. 5. Commerce Commission information disclosure requirements.	Business cases have been prepared and approved for our EAM system as well as our GIS. These documents broadly detail the system requirements. However, after implementation programs to better configure and utilise more functionality will be developed to better support the AMS and asset strategies.	Effective asset management requires appropriate information to be available. Widely used AM standards therefore require the organisation to identify the asset management information it requires in order to support its asset management system. Some of the information required may be held by suppliers. The maintenance and development of asset management information systems is a poorly understood specialist activity that is akin to IT management but different from IT management. This group of questions provides some indications as to whether the capability is available and applied. Note: To be effective, an asset information management system requires the mobilisation of technology, people and process(es) that create, secure, make available and destroy the information required to support the asset management system.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Operations, maintenance and engineering managers	Details of the process the organisation has employed to determine what its asset information system should contain in order to support its asset management system. Evidence that this has been effectively implemented.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	2	1. Restructuring has added more staff to GIS team. 2. New GIS BPMs for creating assets and loading job pack data. 3. Job pack process ensures data capture and verification. 4. Implementation of drawing management system. 5. Asset audit project approved to verify, complete and quality control data in EAM systems.	Data verification, ratification, and cleansing are done continuously and on an ad hoc case-by-case basis. The implementation of our EAM and new GIS requires the verification of all existing data which will be done as a standalone project in 2018/19.	The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale. This question explores how the organisation ensures that information management meets widely used AM practice requirements (eg, s 4.4.6 (a), (c) and (d) of PAS 55).	The management team that has overall responsibility for asset management. Users of the organisational information systems.	The asset management information system, together with the policies, procedure(s), improvement initiatives and audits regarding information controls.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	2	1. Appointment of Business Systems Manager 2. Review of the ICT system by Deloittes 3. Business Process Mapping development in EAM system. 4. Board meetings and minutes. 5. Formalising our Business Systems strategy.	The process of justifying the procurement and evaluation of an EAM system was based on the recommendation, and conducted in association with Deloitte after a review of our ICT systems some years ago. The evaluation process included site visits to our peers who had already implemented systems. During these visits functionality as defined and specified by us were demonstrated by the various distribution businesses. A function of the newly created ICT Manager role is to develop the ICT systems around our AMP requirements based on the process identified by the BPM project. We are establishing a review process.	Widely used AM standards need not be prescriptive about the form of the asset management information system, but simply require that the asset management information system is appropriate to the organisations needs, can be effectively used and can supply information which is consistent and of the requisite quality and accuracy.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Users of the organisational information systems.	The documented process the organisation employs to ensure its asset management information system aligns with its asset management requirements. Minutes of information systems review meetings involving users.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	3	1. Risk Management Policy and risk matrices as in Appendix A.3 2. Risk management processes identified in the policy. 3. Risk Committee includes directors and meets monthly. 4. Training sessions for all relevant network staff.	We have developed a Risk Management Policy and are in the process of identifying asset related risk across the asset lifecycle. We are in the process of implementing a risk management framework.	Risk management is an important foundation for proactive asset management. Its overall purpose is to understand the cause, effect and likelihood of adverse events occurring, to optimally manage such risks to an acceptable level, and to provide an audit trail for the management of risks. Widely used standards require the organisation to have process(es) and/or procedure(s) in place that set out how the organisation identifies and assesses asset and asset management related risks. The risks have to be considered across the four phases of the asset lifecycle (eg, para 4.3.3 of PAS 55).	The top management team in conjunction with the organisation's senior risk management representatives. There may also be input from the organisation's Safety, Health and Environment team. Staff who carry out risk identification and assessment.	The organisation's risk management framework and/or evidence of specific process(es) and/ or procedure(s) that deal with risk control mechanisms. Evidence that the process(es) and/or procedure(s) are implemented across the business and maintained. Evidence of agendas and minutes from risk management meetings. Evidence of feedback in to process(es) and/or procedure(s) as a result of incident investigation(s). Risk registers and assessments.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	2	1. Use external experts to do asbestos in buildings review. 2. Health & Safety Management System, section 3. pp. 30,38 3. Competency Matrix 4. Hazard and Condition Review, Training Needs Analysis with GM-Risk and Safety 5. Senior management job descriptions.	We have early drafts for resourcing, competency and training requirements in place and have plans to progress the drafts.	Widely used AM standards require that the output from risk assessments are considered and that adequate resource (including staff) and training is identified to match the requirements. It is a further requirement that the effects of the control measures are considered, as there may be implications in resources and training required to achieve other objectives.	Staff responsible for risk assessment and those responsible for developing and approving resource and training plan(s). There may also be input from the organisation's Safety, Health and Environment team.	The organisations risk management framework. The organisation's resourcing plan(s) and training and competency plan(s). The organisation should be able to demonstrate appropriate linkages between the content of resource plan(s) and training and competency plan(s) to the risk assessments and risk control measures that have been developed.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	2	1. Health and Safety Management System 2. Senior Management completes 'ComplyWith' questionnaire quarterly. 3. Training and Compliance Manager role description 4. Public Safety Management System 5. We have a GM-Commercial & Regulatory to assist with regulatory matters. 6. Health and Safety Policy Statement	We have compiled a compliance register that lists all of our compliance obligations. These are reviewed on a quarterly, six monthly and annual basis as is most appropriate and we report by exception to our board every quarter. The register is used as part of the overarching risk management plan that is linked to our asset management practices. We have yet to fully document our risk and control measures.	In order for an organisation to comply with its legal, regulatory, statutory and other asset management requirements, the organisation first needs to ensure that it knows what they are (eg, PAS 55 specifies this in s 4.4.8). It is necessary to have systematic and auditable mechanisms in place to identify new and changing requirements. Widely used AM standards also require that requirements are incorporated into the asset management system (e.g. procedure(s) and process(es))	Top management. The organisations regulatory team. The organisation's legal team or advisors. The management team with overall responsibility for the asset management system. The organisation's health and safety team or advisors. The organisation's policy making team.	The organisational processes and procedures for ensuring information of this type is identified, made accessible to those requiring the information and is incorporated into asset management strategy and objectives

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	**3**	1. AMP detailing workplans and projects 2. Load growth Data 3. Engineering design reports 4. Master Services Agreement held with NETcon. 5. NETcon maintenance schedule 6. We have maintenance/construction standards and drawings for use by contractors. 7. Draft fleet strategies in place for all high value/critical assets.	We have document control measures in place for all of our asset drawings. And we have established BPMs for the building of new assets. We are in the process of implementing lifecycle and fleet strategies in our new EAM system. We are now reviewing our initial BPMs as part of our implementation of the new EAM. We have developed maintenance schedules based on maintenance strategies for all main maintenance activities.	Life cycle activities are about the implementation of asset management plan(s) i.e. they are the "doing" phase. They need to be done effectively and well in order for asset management to have any practical meaning. As a consequence, widely used standards (eg, PAS 55 s 4.5.1) require organisations to have in place appropriate process(es) and procedure(s) for the implementation of asset management plan(s) and control of lifecycle activities. This question explores those aspects relevant to asset creation.	Asset managers, design staff, construction staff and project managers from other impacted areas of the business, e.g. Procurement	Documented process(es) and procedure(s) which are relevant to demonstrating the effective management and control of life cycle activities during asset creation, acquisition, enhancement including design, modification, procurement, construction and commissioning.
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and performance?	**3**	1. We have defined maintenance & inspection plans and schedules. 2. Well defined outage management process. 3. NETcon Master Services Agreement 4. Fortnightly meetings between NETcon and the AEL Asset Manager 5. EAM records outlining the basic maintenance status 6. Asset commissioning check sheet. 7. Maintenance standards & inspection schedules in EAM. 8. Outage management processes developed and in use.	As part of implementing OneEnergy (EAM), we are revising maintenance processes and setting up maintenance schedules based on asset condition, age and reliability data. As we capture more data, these processes will improve and result in increased benefits. As part of the new EAM system KPIs will be defined and measured.	Having documented process(es) which ensure the asset management plan(s) are implemented in accordance with any specified conditions, in a manner consistent with the asset management policy, strategy and objectives and in such a way that cost, risk and asset system performance are appropriately controlled is critical. They are an essential part of turning intention into action (eg, as required by PAS 55 s 4.5.1).	Asset managers, operations managers, maintenance managers and project managers from other impacted areas of the business	Documented procedure for review. Documented procedure for audit of process delivery. Records of previous audits, improvement actions and documented confirmation that actions have been carried out.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	**2**	1. AMP, chapter 6. 2. Network Policy: Public Safety Management System, p. 21 3. Asset Management lifecycle strategies. 4. Asset fleet strategies 5. Fortnightly meetings between NETcon and the AEL Asset Lifecycle Manager. 6. EAM records outlining basic maintenance status. 7. Condition derived Asset Health Indicators for AELs fleet of poles.	Condition assessments are predominately EAM based (test point) records. There are some gaps in the historical information held. Our EAM is now in place, and a project to verify and improve data quality is planned for 2022 through 2024. Once complete, we would expect an increase in score. We are yet to formalise or determine measures to review our processes.	Widely used AM standards require that organisations establish implement and maintain procedure(s) to monitor and measure the performance and/or condition of assets and asset systems. They further set out requirements in some detail for reactive and proactive monitoring, and leading/lagging performance indicators together with the monitoring or results to provide input to corrective actions and continual improvement. There is an expectation that performance and condition monitoring will provide input to improving asset management strategy, objectives and plan(s).	A broad cross-section of the people involved in the organisation's asset-related activities from data input to decision-makers, i.e. an end-to end assessment. This should include contactors and other relevant third parties as appropriate.	Functional policy and/or strategy documents for performance or condition monitoring and measurement. The organisation's performance monitoring frameworks, balanced scorecards etc. Evidence of the reviews of any appropriate performance indicators and the action lists resulting from these reviews. Reports and trend analysis using performance and condition information. Evidence of the use of performance and condition information shaping improvements and supporting asset management strategy, objectives and plan(s).

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?	**2**	1. Asset Management Policy, chapters 2 and 7 2. AEL Emergency Preparedness Plan, addendum A.4 3. Health & Safety Management System 4. Participant Outage Plan 5. Position descriptions of Senior Management 6. Risk management policy. 7. Communication through MBUs. 8. Investigate, specify and document the correction of asset defects	Our Emergency Preparedness Plan supports us to respond to emergency situations in an appropriate and timely manner. The new EAM system that supports the centralisation of documentation will greatly assist us in improving our score in the future. We have developed a GIS solution to record asset failures during network emergencies that is widely visible throughout the organisation. This is updated in real time as work progresses.	Widely used AM standards require that the organisation establishes implements and maintains process(es) for the handling and investigation of failures incidents and non-conformities for assets and sets down a number of expectations. Specifically this question examines the requirement to define clearly responsibilities and authorities for these activities, and communicate these unambiguously to relevant people including external stakeholders if appropriate.	The organisation's safety and environment management team. The team with overall responsibility for the management of the assets. People who have appointed roles within the asset-related investigation procedure, from those who carry out the investigations to senior management who review the recommendations. Operational controllers responsible for managing the asset base under fault conditions and maintaining services to consumers. Contractors and other third parties as appropriate.	Process(es) and procedure(s) for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances. Documentation of assigned responsibilities and authority to employees. Job Descriptions, Audit reports. Common communication systems i.e. all Job Descriptions on Internet etc.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	1	BPM EAM Scope for TechnologyOne's AMS	Our EAM has been designed around the review of our previous asset management systems and our present and future requirements. An audit procedure will be developed once the EAM implementation is completed and all relevant BPM revised.	This question seeks to explore what the organisation has done to comply with the standard practice AM audit requirements (eg, the associated requirements of PAS 55 s 4.6.4 and its linkages to s 4.7).	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit teams, together with key staff responsible for asset management. For example, Asset Management Director, Engineering Director. People with responsibility for carrying out risk assessments	The organisation's asset-related audit procedure(s). The organisation's methodology(s) by which it determined the scope and frequency of the audits and the criteria by which it identified the appropriate audit personnel. Audit schedules, reports etc. Evidence of the procedure(s) by which the audit results are presented, together with any subsequent communications. The risk assessment schedule or risk registers.
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?	2	1. Health & Safety Management System 2. AEL Emergency Preparedness Plan, addendum A.4 3. Hazard and Incident Report form 4. NETcon Master Services Agreement 5. Fortnightly meetings between NETcon and AEL. 6. Defect reporting and actions as well as red tag pole reporting and mitigation. 7. Reliability reviews, section 5.6.3	We have processes for routine and preventive inspection, maintenance and performance programmes. In addition we have a plant fault report database for the capturing and action of all plant related faults that are discovered. Our investigation processes fully document incidents of asset failures taking note of nonconformities to establish root cause. ICAM and RCFA investigation process implemented and used extensively.	Having investigated asset related failures, incidents and non-conformances, and taken action to mitigate their consequences, an organisation is required to implement preventative and corrective actions to address root causes. Incident and failure investigations are only useful if appropriate actions are taken as a result to assess changes to a businesses risk profile and ensure that appropriate arrangements are in place should a recurrence of the incident happen. Widely used AM standards also require that necessary changes arising from preventive or corrective action are made to the asset management system.	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit and incident investigation teams. Staff responsible for planning and managing corrective and preventive actions.	Analysis records, meeting notes and minutes, modification records. Asset management plan(s), investigation reports, audit reports, improvement programmes and projects. Recorded changes to asset management procedure(s) and process(es). Condition and performance reviews. Maintenance reviews
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	2	1. Network Risk Management, addendum A.3 2. Staff hire; IT Manager and Network Manager, including position descriptions. 3. Acquisition of the Vault Health and Safety Data Base 4. Business Process Mapping for procurement, storage, installation of assets in EAM. 5. Risk management policy 6. We have developed rate cards for all major types of work activities on our network. These rate cards have been independently assessed as market aligned.	Our Risk Management Policy, as it relates to the network, focuses on risk levels, what is acceptable or not, and the associated costs. Justification of projects is based on the company's risk reduction level. We maintain customer complaints register. Monthly report to Board regarding assets risks.	Widely used AM standards have requirements to establish, implement and maintain process(es)/procedure(s) for identifying, assessing, prioritising and implementing actions to achieve continual improvement. Specifically there is a requirement to demonstrate continual improvement in optimisation of cost risk and performance/condition of assets across the life cycle. This question explores an organisation's capabilities in this area—looking for systematic improvement mechanisms rather that reviews and audit (which are separately examined).	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. Managers responsible for policy development and implementation.	Records showing systematic exploration of improvement. Evidence of new techniques being explored and implemented. Changes in procedure(s) and process(es) reflecting improved use of optimisation tools/techniques and available information. Evidence of working parties and research.

Company Name	**Alpine Energy Ltd**
AMP Planning Period	**1 April 2022 – 31 March 2032**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	**3**	1. AMP, section 7.5 2. Emails from and to the EEA, ANA, Sapere Group, Utility Consulting etc. as discussed in user guidance 3. Reports from PWC, Utility Consulting, Sapere Group, Deloittes 3. EEA conference attendance registers 4. Subscriptions to various publications. 5. CIGRE & Engineering NZ affiliation and working group participation.	We support and encourage all technical staff, especially engineers to attend the annual EEA conference where new technologies and systems are marketed and displayed. Some vendors also present papers as part of the conference program. The assistance of Deloitte in the evaluation of EAM systems exposed us to all the recognised systems on the market. All staff has internet access and we are regularly informed by staff and the industry of new technologies, product/system developments and training courses.	One important aspect of continual improvement is where an organisation looks beyond its existing boundaries and knowledge base to look at what 'new things are on the market'. These new things can include equipment, process(es), tools, etc. An organisation which does this (eg, by the PAS 55 s 4.6 standards) will be able to demonstrate that it continually seeks to expand its knowledge of all things affecting its asset management approach and capabilities. The organisation will be able to demonstrate that it identifies any such opportunities to improve, evaluates them for suitability to its own organisation and implements them as appropriate. This question explores an organisation's approach to this activity.	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. People who monitor the various items that require monitoring for 'change'. People that implement changes to the organisation's policy, strategy, etc. People within an organisation with responsibility for investigating, evaluating, recommending and implementing new tools and techniques, etc.	Research and development projects and records, benchmarking and participation knowledge exchange professional forums. Evidence of correspondence relating to knowledge acquisition. Examples of change implementation and evaluation of new tools, and techniques linked to asset management strategy and objectives.