

COLLGAR WIND FARM PTY LTD GENERATION LICENCE EGL 22 PERFORMANCE AUDIT ASSET MANAGEMENT REVIEW REPORT

Prepared by Kevan McGill Date 7 March 2017



Thomas Scott-Morey CEO Collgar Wind Farm Pty Ltd Murray Street WEST PERTH WA 6005

Dear Mr Scott-Morey

Performance Audit & Asset Management Review Electricity Licence

The fieldwork on the performance audit of Generation Licence EGL 22 for the audit period (1 May 2013 to 31 Oct 2016) is complete and I am pleased to submit the report to you. The report reflects my findings and opinions.

In my opinion, the Licensee has maintained a good level of compliance with the Licensee conditions and integrity with the Licensee's reporting obligations. There are no non-compliances noted.

In my opinion, the Licensee maintained, in all material aspects, control procedures in relation to the Generation licence (EGL 22) for the audit period on the relevant clauses referred to within the scope section of this report.

In my opinion, the Licensee maintained, in all material aspects, effective control procedures and an effective asset management system in relation to the Generation licence (EGL 22) for the review period on the relevant clauses referred to within the scope section of this report.

Yours sincerely

Kevan McGill Director

Date 7 March 2017

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1 EXECUTIVE SUMMARY

This performance audit and asset management system review was conducted in accordance with the guidelines issued by the Economic Regulation Authority (ERA) for the audit period (1 May 2013 to 31 Oct 2016).

1.1 OVERALL CONCLUSION

In my opinion, the Licensee has maintained a good level of compliance with the licence conditions. There were no non-compliances requiring corrective actions. There are no issues with the integrity of reporting to the *ERA* or other statutory organisations.

In my opinion, the Licensee maintained, in all material aspects, effective control procedures in relation to the Generation Licence (EGL 22) for the audit period based on the relevant clauses referred to within the scope section of this report.

In my opinion, the Licensee maintained, in all material aspects, effective control procedures and an effective asset management system in relation to the Generation Licence (EGL 22) for the review period on the relevant clauses referred to within the scope section of this report.

1.2 SUMMARY OF SIGNIFICANT RESULTS

1.2.1 AUDIT

While there are no non-compliances.

1.2.2 ASSET MANAGEMENT SYSTEM REVIEW

There are no issues that are required to improve the effectiveness of the asset management system.

1.3 AUDIT PERIOD

This audit covers the period 1 May 2013 to 31 Oct 2016. The previous audit/review period was 30 April 2010 to 30 April 2013.

1.4 THE LICENSEE

Collgar Wind Farm (*Collgar*) holds an Electricity Generation Licence (EGL 22) issued by the Economic Regulation Authority under the Electricity Industry Act 2004. This performance audit was conducted in accordance with the guidelines issued by the Economic Regulation Authority (ERA) to assess Collgar's level of compliance with the licence conditions.

Collgar Wind Farm is located 25 km south east of Merredin in Western Australia. The plant is operated by Vestas Australian Wind Technology Pty Ltd (Vestas) which has been contracted to provide the operation and maintenance services.

The power station consists of 111 Vestas V90 1.86 MW wind turbines with a total generating capacity of 206 MW. The assets also include Operation and Maintenance (O&M) buildings, high voltage switchyard, a 33kV underground / overhead collection facilities and property leases.

The records and areas covered by the Licence were inspected and interviews were also held with key personnel at the Merredin licence area and in the Perth Office.

1.5 PREVIOUS AUDIT NON-COMPLIANCES AND RECOMMENDATIONS

There are no issues from previous audit.

Table of I	Previous Non-Complian	ces and Audit Re	ecommend	ations
A. Res	solved before end of prev	ious audit period		
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable
B. Res	solved during current Auc	lit period		
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable
C. Un	resolved at end of current	Audit period		
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable

Opportunities for Improvement (2013)

Table of Previous Non-Compliances and Audit Recommendations							
A	A. Resolved before end of previous audit period						
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current			

			recommendation reference if applicable
Compliant 4 Electricity Industry Act section 11 Report to ERA in manner prescribed Initial compliance report was late.	None as action to comply had been implemented	2011	No
. Unresolved at end of curren	t Audit period		
(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable
	Electricity Industry Act section 11 Report to ERA in manner prescribed Initial compliance report was late. B. Unresolved at end of curren (Compliance rating/ Legislative Obligation/	Report to ERA in manner prescribed Initial compliance report was late. 3. Unresolved at end of current Audit period (Compliance rating/ Legislative Obligation/ Recommendation)	Report to ERA in manner prescribed Initial compliance report was late. 3. Unresolved at end of current Audit period (Compliance rating/ Legislative Obligation/ Report to ERA in manner implemented comply had been implemented comply had been implemented Date Resolved Recommendation

1.6 ISSUES FROM CURRENT AUDIT

There are no issues from current audit.

1.6.1 COMPLIANCE ELEMENTS REQUIRING CORRECTIVE MEASURES

The actions requiring corrective measures are:

	Current Audit Non-Compliance					
Α.	Resolved during current Audit perio	od T				
Reference (no./year)	Non-Compliance/Controls improvement (Rating / Legislative Obligation / Details of Non Compliance or inadequacy of controls)	Date Resolved (& management action taken)	Auditors comments			
В.	B. Unresolved at end of current Audit period					
Reference (no./year)	Non-Compliance/Controls improvement (Rating / Legislative Obligation / Details of Non	Auditors' Recommendation	Management action taken by end of Audit period			

Compliance or inadequacy of controls)	

1.6.2 OPPORTUNITIES FOR IMPROVEMENT

Table of 0	Table of Current Audit Non-Compliances/Recommendations						
Unresolved at end of current Audit period							
Reference (no./year)	Non-Compliance/Controls improvement (Rating / Legislative Obligation / Details of Non Compliance or inadequacy of controls)		Management action taken by end of Audit period				

1.7 PREVIOUS REVIEW RECOMMENDATIONS

Recommendations from last review (2013):

Previous review ineffective components recommendations

Table of Previous Review Ineffective Components Recommendations						
A. Resolved before end of previous review period						
Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation or action taken	Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable		

Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable
1/2013 2.5	A2 Ongoing legal/environmental/safety obligations of the asset owner are assigned and understood. The initial compliance report was late Audit item 124	None as action to comply had been implemented	2011	No
2/2013 4.2	A2 Performance standards (availability of service, capacity, continuity, emergency response, etc) are measured and achieved.	None as action to comply had been implemented	2011	No
3/2013 4.3	A2 Compliance with statutory and regulatory requirements. The initial compliance report was late Audit item 124	None as action to comply had been implemented	2011	No
4/2014 4.4	A2 Achievement of customer service levels. A comprehensive "Operational Report" is prepared monthly by the licensee summarising the operating conditions, availability, generation output, compliance with client's requirements and financial status. As the plant output is dependent upon environmental conditions the plant primary service level is availability rather than power generation. Potential availability is measured in terms of the plant capacity to generate power, for the first four months of 2013 the Potential Availability was over 98.59%, while the minimum Actual Availability was 89.25 in April, due to Western Power shutdown of the connecting 220 kV Transmission line over five days and WP power constraint on one day.		2013	No
5/2013 6.4	Failures are analysed and operational/maintenance plans adjusted where necessary. Failures have been investigated and assessed and have resulted in corrective actions, where applicable corrective actions have resulted in changes to operation. A recording system for failures is in operation. There have been failures of neutral earthing transformers.	None No recommendations were made	2013	No

Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable
	A2 Input controls include appropriate verification and validation of data entered into the system. Input controls of data appear to be satisfactory.	None No recommendations were made	2013	No
6/2013 7.2	Performance standard such as availability form the basis of revenue from the client and payments to the operator. The standards are monitored continually by the Site Service Manager from the SCADA operational performance reports and reported in Monthly reports. The performance is adjusted for owner initiated events, wind turbine yawing, grid issues. Western Power (WP) meter reads are manually downloaded daily from the "Western Power Portal" and are reconciled with the SCADA readings every two weeks. Each week and each month's availability data is signed off by representatives of Collgar and Vestas on a progressive basis to ensure that availability levels are being achieved and that both Collgar and the operator verify the data.			
7/2013 7.5	A2 Data backup procedures appear adequate. A back up process is in place. Currently site data is backed up to Perth Office and corporate data is backed up off site several times daily.	None	2011	No
8/2013 7.6	Key computations related to licensee performance reporting are materially accurate. Output from the Collgar wind farm site is measured by a generation meter installed by WP at the connection point at the WP's substation on site. A check meter is also installed. The readings are posted by WP on their portal. Independent readings are received from Vestas' SCADA system which are used by the licensee to verify the WP figures.		2013	No

Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)		Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable
9/2013 8.2	Risks are documented in a risk register and treatment plans are actioned and monitored. Risk analysis for likelihood and consequences of asset failure has been performed in the "Collgar Operational Risk Matrix_20130221" which includes actions required to mitigate the risks.	The analysis could be improved by identifying the implementation and completions of actions. 2017 audit update - Mitigations including reference to relevant policies and controls are documented in the risk register. Detailed actions are captured under the Company team action list which is reviewed by management on a monthly basis and if applicable, under the Board action list which is reviewed by the Board and senior management every quarter at the Board meeting.		No
10/2013 10.1	A2 The financial plan states the financial objectives and strategies and actions to achieve the objectives. The licensee has a financial plan, the "Financial Model" which shows lifecycle costs including operating and capital expenditure up to 2037. The Model is updated with actual costs		2011	No
11/2013 11.1	A2 There is a capital expenditure plan that covers issues to be addressed, actions proposed, responsibilities and dates. The capital expenditure plan is included in the 25 year Financial Model and contains both the historical costs and forecast nominal provision for capital expenditure to 2037.	None	2011	No
12/2013 11.2	B2 The plan provides reasons for capital expenditure and timing of expenditure. There is evidence of feasibility studies however, as documented in the BP, section 4.4, there is no commitment to major capital expenditure in the near future and no refurbishment fees are expected.	None	2011	No

Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable
13/2013 11.3	A2 The capital expenditure plan is consistent with the asset life and condition identified in the asset management plan The financial plan is consistent with the asset life and condition identified in the asset system records.	None	2011	No
C. Unr	esolved at end of current Re	eview period		
Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation		Further action required (Yes/No/Not Applicable) & Details of further action required

1.8 TABLE OF CURRENT REVIEW ASSET SYSTEM DEFICIENCIES/ RECOMMENDATIONS

A.	Resolved during current Revi	ew period	
Reference (no./year)	Asset System Deficiency (Rating/ Asset Management System Component & Effectiveness Criteria / Details of Asset System Deficiency)	Date Resolved (& management action taken)	Auditors comments
В.	Unresolved at end of current	Review period	
Reference (no./year)	Asset System Deficiency (Rating/ Asset Management System Component & Effectiveness Criteria / Details of Asset System	Auditors Recommendation	Management action taken by end of audit period

2 PERFORMANCE AUDIT & ASSET MANAGEMENT SYSTEM REVIEW PERFORMANCE AUDIT OBJECTIVES

2.1 PERFORMANCE AUDIT OBJECTIVES

Under section 13 of the *Electricity Industry Act 2004* (the Act), it is a requirement that every licensee provide the Economic Regulation Authority (ERA) not less than once in every period of 2 years or longer as the ERA allows with a performance audit conducted by an independent expert acceptable to the ERA.

The primary objective of the audit is to audit the effectiveness of measures taken by the Licensee to maintain quality and performance standards. The Act states a performance audit is an audit of the effectiveness of measures taken by the Licensee to meet the performance criteria specified in the licence. The licence states that performance standards are contained in applicable legislation. Performance criteria are defined in the licence as:

- (a) the terms and conditions of the *licence*; and
- (b) any other relevant matter in connection with the applicable legislation that the ERA determines should form part of the audit.

The licence also provides for individual licence conditions namely - the *ERA* may prescribe individual performance standards in relation to the Licensee of its obligations under this licence or the applicable legislation (the Act and subordinate legislation).

The audit and review are to be conducted in accordance with the prevailing ERA documents "Audit Guidelines: Electricity and Gas Licence (hereinafter "Guidelines")¹ and the Electricity Compliance Reporting Manual (hereinafter "Manual")². In particular, the Manual identifies each licence condition and resolves it into a number of obligations (hereinafter "Obligations"), each of which is to be addressed individually by the audit.

The Licensee appointed McGill Engineering Services Pty Ltd to conduct the audit of its Generation Licence with approval from the ERA. A preliminary assessment was conducted with the Licensee's management to determine the inherent risk and the state of control for each compliance element of the Licence obligation. McGill Engineering Services Pty Ltd then prioritised the audit coverage based on the risk profile of the Licensee with an emphasis on providing greater focus and depth of testing for areas of higher risk to provide reasonable assurance that the Licensee had complied with the standards, outputs and outcomes under the Licence obligations.

¹ Economic Regulation Authority: Audit and Review Guidelines: Electricity and Gas Licences April 2014

² Economic Regulation Authority: Electricity Compliance Reporting Manual September 2014. The audit period was covered by the 2013 manual for a period and the 2014 manual for the majority of the audit period. The are no items in the 2013 manual that are not in the 2014 manual and the 2014 manual is used for the audit. The July 2016 manual has no differences for this licensee. The October 2016 manual also has no differences for this licensee other than item 105 which already can accommodate the change.

The audit was conducted in a manner consistent with Australian Auditing Standards (AUS) 808 "Planning Performance Audits" and AUS 806 "Performance Auditing". McGill Engineering Services Pty Ltd evaluated the adequacy and effectiveness of the controls and performance by the Licensee relative to the standards referred in the Generation Licence through a combination of enquiries, examination of documents and detailed testing for Generation Licence EGL 22 for the Licensee.

2.2 REVIEW OBJECTIVES

Under the *Electricity Industry Act 2004* (the Act) section 14, the holder of a Generation License must develop an Asset Management System and maintain an asset management system to manage the assets accordingly for delivery of a reliable service to its customers. The Act requires a review of the asset management system every two years (or longer time approved by the ERA).

This report is an impartial review of the Licensee's asset management effectiveness under the Review Guidelines: Electricity and Gas Licences published by the ERA.

The review conducted between December 2016 to March 2017 examined the asset management processes used by the Licensee in delivering the services to its customers. These services include lifecycle processes for:

- Asset planning;
- Asset creation/acquisition;
- Asset disposal;
- Environmental analysis;
- Asset operations;
- Asset maintenance;
- Asset management information system (AMIS);
- Risk management;
- Contingency planning;
- Financial planning;
- · Capital expenditure planning; and
- Review of the asset management system.

As well as the processes, the asset management supporting systems were tested as to their use and effectiveness. Data used by the Licensee was also examined with respect to its effectiveness for asset management and the delivery of outcomes.

Tests were undertaken through interviews and investigation of the processes to assess whether they were being performed as documented.

The Licensee appointed McGill Engineering Services Pty Ltd to conduct the review of its Generation Licence with approval from the ERA. A preliminary assessment was conducted with the Licensee's management to determine the inherent risk and the state of control for each asset management system lifecycle process. McGill Engineering Services Pty Ltd then prioritised the review coverage based on the risk profile of the

Licensee with an emphasis on providing greater focus and depth of testing for areas of higher risk to provide reasonable assurance that the Licensee has maintained an effective asset management system.

The review was conducted in a manner consistent with ASAE 3000 Assurance standard for engagements to audit other than historical financial information. McGill Engineering Services Pty Ltd evaluated the adequacy and effectiveness of the controls and performance by the Licensee relative to the standards referred in the Generation Licence through a combination of enquiries, examination of documents and detailed testing for Electricity Generation Licence EGL 22 for Collgar Wind Farm Pty Ltd.

2.3 SCOPE LIMITATION

The review was undertaken by examination of documents, interviews with key persons and observations and is not a detailed inspection of physical items.

2.4 INHERENT LIMITATIONS

Because of the inherent limitations of any internal control structure, it is possible that fraud, error or non-compliance with laws and regulations may occur and not be detected.

An audit is not designed to detect all weaknesses in compliance measures as an audit is not performed continuously throughout the period and the audit procedures performed on the compliance measures are undertaken on a test basis.

Any projection of the evaluation of the operating licences to future periods is subject to the risk that the compliance measures in the plans may become inadequate because of changes in conditions or circumstances, or that the degree of compliance with them may deteriorate.

The audit opinion expressed in this report has been formed on the above basis.

2.5 STATEMENT OF INDEPENDENCE

To the best of my knowledge and belief, there is no basis for contraventions of any professional code of conduct in respect of the audit.

I have not done or contemplate undertaking any other work with the Licensee.

There are no independence threats due to:

- self-interest as the audit company or a member of the audit team have no financial or non-financial interests in the Licensee or a related entity;
- self-review no circumstance has occurred:
 - where the audit company or a member of the audit team has undertaken other non-audit work for the Licensee that is being evaluated in relation to the audit/review; or
 - when a member of the audit team was previously an officer or director of the Licensee; or

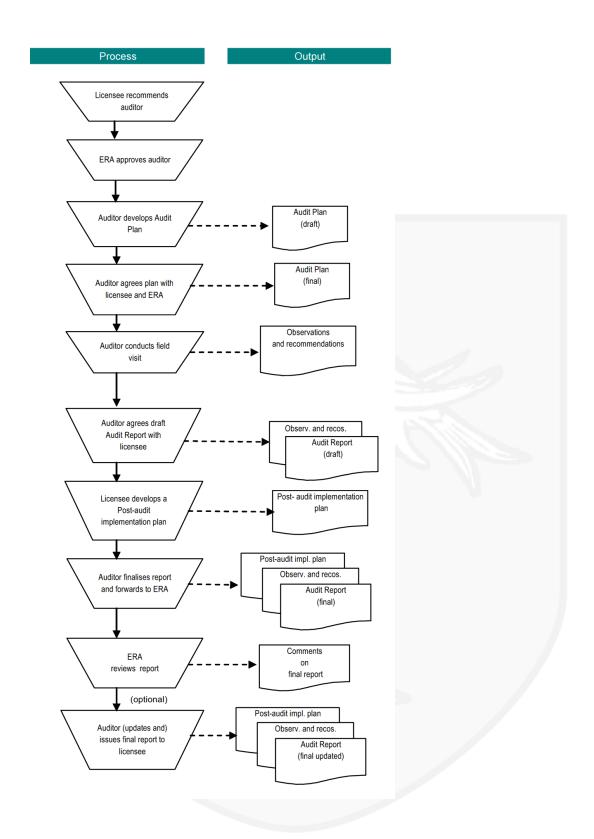
 where a member of the audit team was previously an employee of the Licensee who was in a position to exert direct influence over material that will be subject to audit during an audit/review.

There is no risk of a self-review threat as:

- no work has been undertaken by the auditor, or a member of the audit/review team, for the Licensee within the previous 24 months; or
- the auditor is currently undertaking for the Licensee; or
- the auditor has submitted an offer, or intends to submit an offer, to undertake for the Licensee within the next 6 months; and
- there is no close family relationship with a Licensee, its directors, officers or employees, and
- the auditor is not, nor is perceived to be too sympathetic to the Licensee's interests.

2.6 SCOPE OF THE AUDIT

The audit was conducted in accordance with flow chart:



2.7 KEY CONTACTS

The key contacts were:

- Licensee: The licensee's key people are
 - o Thomas Scott-Morey, CEO of Collgar Wind Farm Pty Ltd

- o Fan Zhang, CFO of Collgar Wind Farm Pty Ltd
- o Barry Sayers, Site Superintendent of Collgar Wind Farm Pty Ltd
- o Gina Dodd, Principal Engineer of Collgar Wind Farm Pty Ltd
- o Steven Beilken, Site Service Manager Collgar Wind Farm Vestas.
- McGill Engineering Services Pty Ltd:
 - Kevan McGill, John McLoughlin.

The wind farm at Collgar was visited and the Perth Office. Kevan McGill spent 80 hours and John Mcloughlin spent 30 hours on the audit/review.

2.8 AUDIT REQUIREMENTS

Compliance with licence conditions was examined according to the likely inherent risk and the adequacy of controls to manage that risk.

Nature of audit work conducted

The audit considered:

- **process compliance** the effectiveness of systems and procedures in place throughout the audit period, including the adequacy of internal controls;
- outcome compliance the actual performance against standards prescribed in the licence throughout the audit period;
- output compliance the existence of the output from systems and procedures throughout the audit period (that is, proper records exist to provide assurance that procedures are being consistently followed and controls are being maintained);
- **integrity of reporting** the completeness and accuracy of the compliance and performance reports provided to the ERA; and
- compliance with any individual licence conditions the requirements imposed on the specific licensee by the ERA or specific issues that are advised by the ERA.

Stage	Auditor	Standard
1. Risk & Materiality	K McGill	ASA 300 Planning
Assessment Outcome	John	ASA 315: Risk Assessments and
- Operational/	McLoughlin	Internal Controls
Performance Audit		ASAE 3000 Assurance standard for
Plan		engagements to audit other than
		historical financial information
		AS/NZS 4360:2004: Risk Management
		ERA Guidelines
2. System Analysis	K McGill	AUS 810: Special Purpose Reports on
	John	Effectiveness of Control Procedures
	McLoughlin	
3. Fieldwork	K McGill	AUS 502: Audit Evidence
Assessment and	John	ASAE 3000 Assurance standard for
testing of;	McLoughlin	engagements to audit other than
 The control 		historical financial information
environment		
 Information system 		

Compliance proceduresCompliance attitude		
4. Reporting	K McGill John McLoughlin	ASA 300 Planning ASAE 3000 Assurance standard for engagements to audit other than historical financial information

2.9 OVERALL CONCLUSION

In my opinion, the Licensee maintained, in all material aspects, effective control procedures in relation to the Generation Licence EGL 22 for the audit period based on the relevant clauses referred to within the scope section of this report.

There are no non-compliances that required corrective actions.

2.10 FINDINGS

The conclusions of each of the elements of the licence are summarised in the following table. The audit risk as determined for each licence condition is also shown. The details of the audit can be seen in detailed findings on Page 27.

2.11 AUDIT COMPLIANCE AND CONTROLS RATING SCALES

Performance	Performance audit compliance and controls rating scales							
Adequ	acy of Controls Rating	Compliance Rating						
Rating		Rating	Description					
А	Adequate controls - no improvement needed	1	Compliant					
В	Generally adequate controls – improvement needed	2	Non-compliant – minor impact on customers or third parties					
С	Inadequate controls -significant improvement required	3	Non-compliant – moderate impact on customers or third parties					
D	No controls evident	4	Non-compliant – major impact on customers or third parties					
NP	Not performed	NR	Not Rated					

2.12 AUDIT SUMMARY

Item	Licence Clause/Condition reference (Cl.=clause, Sch.=schedule)	Obligations under condition	Licence Type (G - Generation)		Audit Priority		Adequacy of Controls	(NP=Not Performed)			:	Compliance Kating	(NR = Not Rated)		
	ce Conditio	ns – Licenc	e Clause) —	Priority			cy of			Cor	nplia	nce	Rati	ng
Gene								ratir		1		1_	-		
Obliga		ectricity Ind	ustry Act			Α	В	С	D	NP	1	2	3	4	NR
101.	14.1	s ³ 13(1)	G	NR	5	√					√				
102.	20.1	s14(1)(a)	G	NR	5	✓					1				
103.	20.2	s14(1)(b)	G	2	4	✓					✓				
	&20.3	()()													
104.	20.4	s14(1)(c)	G	NR	5	✓			\		✓				
105.	4.1	s17(1)	G	2	4	✓		1	7 ,		✓				
106	5.1	s31(3)	G	NR	5	✓					✓				
107.	5.1	s41(6)	G	2	4					✓					✓
Licen	ce Conditio	ns – Electri	city Indus	stry	Priority	Ade	qua	cy of			Cor	nplia	nce	Rati	ng
	ection						trols	ratir	ng						
Obliga	ations- Lic	ence Claus	se – Gen	eration		Α	В	С	D	NP	1	2	3	4	NR
119.	s11	12.1	G	2	4	✓					✓				
120.	s11	13.4	G	2	4					✓					\checkmark
121.	s11	14.2	\sim	0							✓				
			G	2	4	✓	7				•				
122.	S22	20.5	G	2	4	✓					√				
123.	S22 s11	20.5 15.1	G G	2	4	✓				✓	√				✓
123. 124.	S22 s11 s11	20.5 15.1 16.1	G G G	2 2 2	4 4 4					√	∨ ✓				✓
123. 124. 125.	\$22 \$11 \$11 \$11	20.5 15.1 16.1 17.1&17.2	G G G	2 2 2 2	4 4 4 4	✓				✓ ✓	√				✓ ✓
123. 124.	S22 s11 s11	20.5 15.1 16.1	G G G	2 2 2	4 4 4	✓				✓ ✓	√				✓ ✓
123. 124. 125. 126.	S22 s11 s11 s11 s11 ce Conditio	20.5 15.1 16.1 17.1&17.2 18.1 ns – Licence	G G G G G	2 2 2 2 2	4 4 4 4	✓ ✓		cy of		✓ ✓	√ √ √	mplia	ince	Rati	
123. 124. 125. 126. Licena Obliga	S22 s11 s11 s11 s11	20.5 15.1 16.1 17.1&17.2 18.1 ns – Licence	G G G G G	2 2 2 2 2	4 4 4 4 4	✓ ✓		cy of ratir			√ √ √	mplia	ince	Rati	
123. 124. 125. 126. Liceno Obliga Code	s11 s11 s11 s11 ce Conditio ations- Elec Clause	20.5 15.1 16.1 17.1&17.2 18.1 ns – Licenc	G G G G G ee clause	2 2 2 2 2 2 ring	4 4 4 4 4 Priority	✓ ✓ Ade	trols	ratir	ng		✓ ✓				ng NR
123. 124. 125. 126. Licend Obliga Code 324.	s11 s11 s11 s11 ce Conditionations- Electrons- Electron	20.5 15.1 16.1 17.1&17.2 18.1 ns – Licend tricity Indus	G G G G G e clause stry Mete	2 2 2 2 2 2 ring	4 4 4 4 4 Priority	✓ ✓ Ade	trols	ratir	ng	NP	✓ ✓				ng
123. 124. 125. 126. Licent Obliga Code 324. 339.	S22 s11 s11 s11 s11 ce Conditionations- Electronal Clause 5.1	20.5 15.1 16.1 17.1&17.2 18.1 ns – Liceno tricity Indus 3.3B 3.11(3)	G G G G G e clause stry Mete	2 2 2 2 2 2 rring NR NR	4 4 4 4 4 Priority 5 5	✓ ✓ Ade	trols	ratir	ng	NP ✓	✓ ✓				ng NR
123. 124. 125. 126. Liceno Obliga Code 324. 339. 364	S22 s11 s11 s11 s11 ce Conditio ations- Elec Clause 5.1 5.1	20.5 15.1 16.1 17.1&17.2 18.1 ns – Licend tricity Indus 3.3B 3.11(3) 3.27	G G G G G e clause stry Mete	2 2 2 2 2 2 ring NR NR 2	4 4 4 4 4 Priority	✓ ✓ Ade	trols	ratir	ng	NP ✓	✓ ✓				ng NR
123. 124. 125. 126. Licent Obliga Code 324. 339.	S22 s11 s11 s11 s11 ce Conditionations- Electronal Clause 5.1	20.5 15.1 16.1 17.1&17.2 18.1 ns – Licence tricity Indus 3.3B 3.11(3) 3.27 4.4(1)	G G G G G e clause stry Mete	2 2 2 2 2 2 rring NR NR	4 4 4 4 4 Priority 5 5	✓ ✓ Ade	trols	ratir	ng	NP ✓	✓ ✓				ng NR
123. 124. 125. 126. Liceno Obliga Code 324. 339. 364 371.	\$22 \$11 \$11 \$11 \$11 \$12 \$12 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15	20.5 15.1 16.1 17.1&17.2 18.1 ns – Licend tricity Indus 3.3B 3.11(3) 3.27	G G G G G e clause stry Mete	2 2 2 2 2 2 ring NR NR 2 NR	4 4 4 4 4 Priority 5 5 4	✓ ✓ Ade	trols	ratir	ng	NP ✓ ✓	✓ ✓				ng NR ✓

 $^{^3}$ s = Section of Act

Obligations- Electricity Industry Metering					Priority Adequacy controls rat				•			Compliance Rating				
Code	Clause					Α	В	С	D	NP	1	2	3	4	NR	
401.	5.1	5.16	G	2	4					✓					✓	
402.	5.1	5.17(1)	G	2	4					✓					✓	
405.	5.1	5.18	G	2	4					✓					✓	
406.	5.1	5.19(1)	G	NR	5					✓					✓	
407	5.1	5.19(2)	G	NR	5					✓					✓	
408.	5.1	5.19(3)	G	2	4					✓					✓	
410.	5.1	5.19(6)	G	NR	5					✓					✓	
416.	5.1	5.21(5)	G	2	4					✓					✓	
417.	5.1	5.21(6)	G	NR	4					✓					✓	
435.	5.1	5.27	G	2	4					✓					✓	
448.	5.1	6.1(2)	G	2	4					✓					✓	
451.	5.1	7.2(1)	G	2	4					✓					✓	
453.	5.1	7.2(4)	G	2	4					✓					✓	
454.	5.1	7.2(5)	G	2	4	1	0			✓					✓	
455.	5.1	7.5	G	NR	5			- 1		✓					✓	
456.	5.1	7.6(1)	G	NR	5	7	LUA			✓					✓	
457.	5.1	8.1(1)	G	NR	5					✓					✓	
458.	5.1	8.1(2)	G	2	4					√					✓	
459.	5.1	8.1(3)	G	NR	5					√					✓	
460.	5.1	8.1(4)	G	NR	5					✓					✓	
461.	5.1	8.3(2)	G	NR	5					√	-7				✓	

2.13 REVIEW EFFECTIVENESS

2.13.1 ASSET MANAGEMENT REVIEW EFFECTIVENESS SUMMARY

The overall effectiveness rating for each asset management process is based on the combination of the process and policy adequacy rating and the performance rating.

Asset management process and policy definition adequacy rating

Rating	Description	Criteria
Α	Adequately defined	 Processes and policies are documented. Processes and policies adequately document the required performance of the assets. Processes and policies are subject to regular reviews, and updated where necessary. The asset management information system(s) are adequate in relation to the assets that are being managed.
В	Requires some improvement	 Process and policy documentation requires improvement. Processes and policies do not adequately document the required performance of the assets. Reviews of processes and policies are not conducted regularly enough. The asset management information system(s) require minor improvements (taking into consideration the assets that are being managed).

С	Requires significant improvement	 Process and policy documentation is incomplete or requires significant improvement. Processes and policies do not document the required performance of the assets. Processes and policies are significantly out of date. The asset management information system(s) require significant improvements (taking into consideration the assets that are being managed).
D	Inadequate	 Processes and policies are not documented. The asset management information system(s) is not fit for purpose (taking into consideration the assets that are being managed).

Asset management performance ratings

Rating	Description	Criteria
1	Performing effectively	 The performance of the process meets or exceeds the required levels of performance. Process effectiveness is regularly assessed, and corrective action taken where necessary.
2	Opportunity for improvement	 The performance of the process requires some improvement to meet the required level. Process effectiveness reviews are not performed regularly enough. Process improvement opportunities are not actioned.
3	Corrective action required	 The performance of the process requires significant improvement to meet the required level. Process effectiveness reviews are performed irregularly, or not at all. Process improvement opportunities are not actioned.
4	Serious action required	Process is not performed, or the performance is so poor that the process is considered to be ineffective.

2.13.2 ASSET MANAGEMENT SYSTEM EFFECTIVENESS SUMMARY

ASS	SET MANAGEMENT SYSTEM COMPONENT & EFFECTIVENESS CRITERIA	Asset management process and policy definition adequacy rating	Asset management performance rating
1	Asset planning	Α	NR
11	Planning process and objectives reflect the needs of all stakeholders and is integrated with business planning	А	NR
1.2	Service levels are defined	А	NR
1.3	Non-asset options (e.g. demand management) are considered	Α	1
1.4	Lifecycle costs of owning and operating assets are assessed	Α	1
1.5	Funding options are evaluated	Α	NR
1.6	Costs are justified and cost drivers identified	Α	NR
1.7	Likelihood and consequences of asset failure are predicted	Α	1
1.8	Plans are regularly reviewed and updated	А	1
2.	Asset creation and acquisition	NP	NR
2.1	Full project evaluations are undertaken for new assets, including comparative assessment of non-asset solutions	NP	NR
2.2	Evaluations include all life-cycle costs	NP	NR
2.3	Projects reflect sound engineering and business decisions	NP	NR
2.4	Commissioning tests are documented and completed	А	NR

2.5	Ongoing legal/environmental/safety obligations of the asset owner are assigned and understood	А	NR
3.	Asset disposal	NP	NR
3.1	Under-utilised and under-performing assets are identified as part of a regular systematic review process	NP	NR
3.2	The reasons for under-utilisation or poor performance are critically examined and corrective action or disposal undertaken	NP	NR
3.3	Disposal alternatives are evaluated	NP	NR
3.4	There is a replacement strategy for assets	Α	NR
4.	Environmental analysis	Α	1
4.1	Opportunities and threats in the system environment are assessed	А	1
4.2	Performance standards (availability of service, capacity continuity, emergency response, etc.) are measured and achieved	A	1
4.3	Compliance with statutory and regulatory requirements	Α	1
4.4	Achievement of customer service levels	Α	1
5	Asset operations	Α	1
5.1	Operational policies and procedures are documented and linked to service levels required	A	1
5.2	Risk management is applied to prioritise operations tasks	Α	1
5.3	Assets are documented in an Asset Register including asset type, location, material, plans of components, an assessment of assets' physical/structural condition and accounting data	А	1
5.4	Operational costs are measured and monitored	Α	1
5.5	Staff resources are adequate and staff receive training commensurate with their responsibilities	Α	1
6	Asset maintenance	Α	1
6.1	Maintenance policies and procedures are documented and linked to service levels required	А	1
6.2	Regular inspections are undertaken of asset performance and condition	Α	1
6.3	Maintenance plans (emergency, corrective and preventative) are documented and completed on schedule	Α	1
6.4	Failures are analysed and operational/maintenance plans adjusted where necessary	A	1
6.5	Risk management is applied to prioritise maintenance tasks	Α	1
6.6	Maintenance costs are measured and monitored	Α	1
7	Asset Management Information System (MIS)	Α	1
7.1	Adequate system documentation for users and IT operators	Α	1
7.2	Input controls include appropriate verification and validation of data entered into the system	Α	1
7.3	Logical security access controls appear adequate, such as passwords	Α	1
7.4	Physical security access controls appear adequate	Α	1
7.5	Data backup procedures appear adequate and backups are tested	А	1
7.6	Key computations related to Licensee performance reporting are materially accurate	Α	1
7.7	Management reports appear adequate for the Licensee to monitor licence obligations	Α	1
8	Risk management	Α	1
8.1	Risk management policies and procedures exist and are being applied to minimise internal and external risks associated with the asset management system	A	1
8.2	Risks are documented in a risk register and treatment plans are actioned and monitored	А	1

8.3	The probability and consequences of asset failure are regularly assessed	А	1
9	Contingency planning	Α	1
9.1	Contingency plans are documented, understood and tested to confirm their operability and to cover higher risks	Α	1
10	Financial planning	Α	1
10.1	The financial plan states the financial objectives and strategies and actions to achieve the objectives	А	1
10.2	The financial plan identifies the source of funds for capital expenditure and recurrent costs	Α	1
10.3	The financial plan provides projections of operating statements (profit and loss) and statement of financial position (balance sheets)	Α	1
104	The financial plan provides firm predictions on income for the next five years and reasonable indicative predictions beyond this period	А	1
10.5	The financial plan provides for the operations and maintenance, administration and capital expenditure requirements of the services	А	1
10.6	Significant variances in actual/budget income and expenses are identified and corrective action taken where necessary	Α	1
11	Capital expenditure planning	Α	NR
11.1	There is a capital expenditure plan that covers issues to be addressed, actions proposed, responsibilities and dates	Α	NR
11.2	The plan provides reasons for capital expenditure and timing of expenditure	Α	Nr
11.3	The capital expenditure plan is consistent with the asset life and condition identified in the asset management plan	Α	1
11.4	There is an adequate process to ensure that the capital expenditure plan is regularly updated and actioned	Α	1
12	Review of AMS	Α	1
12.1	A review process is in place to ensure that the asset management plan and the asset management system described therein are kept current	А	1
2.2	Independent reviews (e.g. internal audit) are performed of the asset management system	А	1

2.14 OVERALL CONCLUSION

In my opinion, the Licensee maintained, in all material aspects, effective control procedures and an effective asset management system in relation to the Generation licence (EGL 22) for the review period on the relevant clauses referred to within the scope section of this report.

There are no ineffective issues that required corrective actions.

2.15 ESTABLISHING THE CONTEXT

The key legislation that governs the licensing of providers of Electricity is the Electricity Industry Act 2004. In turn, the compliance elements in the organization's Operating Licence were examined and referred to throughout the audit process.

2.15.1 AUDIT RESULTS AND RECOMMENDATIONS

Summary of significant results

There are no non-compliances.

2.15.2 COMPLIANCE ELEMENTS REQUIRING CORRECTIVE MEASURES

There are no issues requiring corrective action.

2.15.3 SUGGESTIONS FOR IMPROVEMENT

There are no suggestions for improvement.

2.16 DETAILED FINDINGS

The following sets out the audit findings

2.16.1 AUDIT WORK UNDERTAKEN

We conducted interviews and enquiries to:

- Understand the control environment by determining the responsibility matrix and key control points
- Obtain the policies and procedures for managing licensed areas; and
- Identify the information systems and processes employed to manage licensed areas
- Determine the level of understanding of the systems and processes for managing licensed areas
- In reviewing the procedures and protocols for managing provision of services within a licensed area, where applicable, we obtained flowcharts of the processes and assessed the reasonableness of the decision matrix and the adequacy of the control points implemented by the Licensee.

2.16.2 FURTHER CONTROL STRATEGIES

The Licensee has compliance manual to assist compliance with regulatory items and a risk register.

2.17 POST AUDIT/ POST REVIEW IMPLEMENTATION PLANS

This is not applicable as there were no recommendations arising from the current audit and those recommendations from the previous review and audit have all been resolved.

2.18 AUDIT/ REVIEW EVIDENCE

The following was considered in the audit/review.

- Generation Licence V3
- Contact details
- Asset Register
- Spares List
- Collgar Financial reports
- Annual compliance returns
- Licence fees payment details
- WTG layout plans
- Master Environmental Management Plan
- Collgar Flora & Fauna Management Plan
- Collgar Stakeholder Management Plan
- Collgar Mallee fowl Management Plan
- Collgar Best Practice Guidelines
- Shire of Merredin Development approval
- DEC clearing permit
- Business plan
- Western Power Access Agreement
- Collgar Board Action list
- Collgar Finance Action list
- Sample HR employment contracts
- Balance of Plant Master works plan
- Collgar Compliance register
- Collgar Board monthly reports
- HSE and Environment management plan
- Vestas Service agreement
- Vestas service management plan
- Collgar emergency Response plan
- Collgar-Western Power operating agreement
- Collgar site communication plan
- Collgar life asset management plan
- SAP reports and screen shots
- Financial auditor report
- Sample tender documents
- Training certificates

2.19 DETAILED AUDIT FINDINGS

The following sets out the audit findings

2.19.1 ELECTRICITY INDUSTRY ACT – LICENCE CONDITIONS AND OBLIGATIONS

Item 101 Generation Licence condition 14.1	Adequacy of controls rating A	Compliance rating	
Licence: Generation			
Electricity Industry Act section 13(1) A Licensee must, not less than once every 24 mor audit conducted by an independent expert accepta		ith a performance	
Observations			
Documents ☑ Compliance ☑	City		
Evidence: interviewed CEO, CFO, Site Superintendent, listed staff. Documents: The Licensee contracted with the auditor to carry out the audit. The documents were forwarded to the ERA as part of the approval of the auditor. Licensee received approval from the ERA for audit scope and appointment of auditor.			
	☑ Reporting ☑	Compliance	
The Licensee contracted with the auditor to carry of last audit met the requirements.	out the audit to meet the	requirements. The	
Issues	7).		
None			
Recommendations			
None		-	
Item 102	dequacy of controls	Compliance rating	
Generation Licence condition 20.1	ating	1	
Licence: Generation			
Electricity Industry Act section 13(1) A Licensee must provide for an asset managemen	t system.		
Observations			
Documents ☑ Compliance ☑			
Evidence: interviewed CEO, Site Superintendent, Plan, Risk management policy, SAP Screen shots management plans, Environmental Plans and App Annual compliance returns, Licence fees payment	, Asset Register, Enviro rovals, Spares List, Col	nmental Igar Financial reports,	
	☑ Reporting ☑	Compliance ☑	
The Licensee has an asset management system. A copy of the asset management plan was obtained, and maintenance systems reviewed at site. These included maintenance planning modules in SAP supported by Trunk for Balance of plant and spreadsheets. The asset management system includes time based and conditioned based maintenance. The review examined the efficacy of the asset management system.			
Issues			
None			
Recommendations			
None			

Item 103	Adequacy of c	ontrols	Compliance rat	ting
Generation Licence condition 20.2 & 20.3	rating			3
Disease Constitution	A		1	
Licence: Generation				
Electricity Industry Act section 13(1)				
A Licensee must notify details of the asset	management system	n and any	/ substantial cha	nges
to it to the ERA. Observations				
Observations				
Documents ☑ Compliance ☑				
Evidence: interviewed CEO, Site Superint				
ERA about LAMP. The asset management				
Process ☑ Outcome ☑ Output ☑ Reporting ☑ Compliance ☑ In the licence application, the asset management system was advised to the ERA. There have				
been no substantial changes that required				
advised was not a change to the AMS.	nothlying the ENA off	iei iliali	LAWF WHICH EN	٦.
Issues				
None Recommendations	C. (3)			
Trans.				
None	11900			
Item 104	Adequacy of	Com	pliance rating	
Generation Licence condition 20.4	controls rating A	1		
Licence: Generation	17			
Electricity Industry Act section 14(1)(c)				
A Licensee must provide the ERA with a re	eport by an independ	ent expe	rt as to the	
effectiveness of its asset management sys	tem every 24 months	s, or such	longer	
period as determined by the ERA.				
Observations				
Documents ☑ Compliance ☑				
Evidence: interviewed CEO, CFO, Site Su	perintendent, listed s	staff. Do	ocuments:	
Include, Asset Management Plan. Approva	al and Appointment le	tters for	current	
review.				
Process ☑ Outcome ☑ Output			npliance 🛛 🗹	
The Licensee contracted McGill Engineering				
	nents and the review	pian doc	uments nave	
the review in accordance with the requirem				
the review in accordance with the requirem been forwarded to the ERA as part of appr				
the review in accordance with the requirembeen forwarded to the ERA as part of appr Issues				
The Licensee contracted McGill Engineerir the review in accordance with the requirem been forwarded to the ERA as part of appr Issues None				
the review in accordance with the requirembeen forwarded to the ERA as part of appr Issues		5		

Item 105	Adequacy of controls	Compliance rating		
Generation Licence condition 4.1	rating			
	A	1		
Licence: Generation				
Electricity Industry Act section 17(1)				
A Licensee must pay to the ERA the prescribe	d licence fee within one m	onth after the day of		
grant or renewal of the licence and within one month after each anniversary of that day during				
the term of the licence.				
Observations				
Documents ☑ Compliance ☑				

	viewed CEO, CI	FO, S	ite Superir	ntende	ent, listed stat	f. Do	ocuments: Includ	le
invoices and red	- '	T ==	T				T 0 11	
	Outcome	V	Output	✓	Reporting	✓	Compliance	✓
Fees were paid	on time.							
None.								
Recommendat	ions							
None.								
Item 106				1 A d o	quacy of con	rolo	Compliance ra	ting
	ence condition 5.	.1		ratin	•	11015	Compliance ra	ung
				Α			1	
Licence:	Generation							
Electricity Indus	try Act section 3	31(3)						
	st take reasonab							
suspension or restriction of the supply of electricity due to an accident, emergency, potential danger or other unavoidable cause.					ntial			
Observations	unavoidable cal	use.			7/110			
					1			
	☐ Compliance			. (. 1) .			. (- 1 - 1 - 1 - 1 - 1 - 1	1
log.	viewed CEO, Si	te Su	perintende	ent, iis	ted staff. Do	cume	nts: include incl	dent
	2 Outcome	Ø	Output	V	Reporting	V	Compliance	V
110000	n no total gener							
	All interruptions				7)			3
Issues								
None.			1					
Recommendat	ions							
None.								
140110.								
		C.1	2 1					
Item 107					quacy of cont	rols	Compliance ra	ting
Generation Lice	nce condition 5.	.1		ratin			No Control	
Licence:	Generation			INOT	Performed		Not Rated	
			100					
•	try Act section 4	. ,			1 1		(
Observations	st pay the costs	or taki	ng an inte	rest in	i land or an e	aseme	ent over land.	
Observations								
Documents [☐ Compliance							
	viewed CEO, CI	FO, S	ite Superir	ntende	ent, listed stat	f. Do	ocuments: Not	
applicable Process [Outcome		Output		Reporting		Compliance	ПП
No land has bee								
	or taking an inte							
leases.	, and the second							
Issues								
None								
Recommendat	ions							
None								
140110								

2.19.2 ELECTRICITY LICENCE – LICENCE CONDITIONS AND OBLIGATIONS

Item 119 Electricity Industry Act section 11	Adequacy of controls rating A	Compliance rating 1		
Licence: Generation				
Generation Licence condition 12.1 A Licensee and any related body corporate must maintain accounting records that comply with the Australian Accounting Standards Board Standards or equivalent International Accounting Standards.				
Observations				
Documents ☑ Compliance ☑ Evidence: interviewed CEO, CFO, Site Superintendent, listed staff. Documents: The Collgar annual report declaration by the financial auditor has been sighted. The Collgar financial accounts refer to compliance with the appropriate accounting standards as does business plan. Process ☑ Outcome ☑ Output ☑ Reporting ☑ Compliance ☑ The Collgar annual reports/business plan show compliance with accounting standards.				
None	1/1/1/18			
Recommendations				
None				
Item 120 Adequacy of controls rating Compliance rating Electricity Industry Act section 11 Not Performed Not Rated				
Licence: Generation				
Generation Licence condition 13.4 A Licensee must comply with any individual performance standards prescribed by the ERA. Observations				
Documents □ Compliance □				
Evidence: interviewed CEO, CFO, Site Superir applicable.	ntendent, listed staff. Do	ocuments: Not		
Process	□ Reporting □	Compliance		
There are no individual performance standards				
Issues				
None				
Recommendations				
None				
Item 121 Electricity Industry Act section 11	Adequacy of controls rating A	Compliance rating 1		
Licence: Generation				
Generation Licence condition 14.2 A Licensee must comply, and require its auditor guidelines dealing with the performance audit.	r to comply, with the ERA	a's standard audit		
Observations				
Documents ☑ Compliance ☑				
Evidence: interviewed CEO, CFO, Site Superir		ocuments: The audit		
plan was forwarded to the ERA, approval of the Process ☑ Outcome ☑ Output		Compliance		

The Licensee has contracted with the auditor to comply with the requirements.			
Issues	1,7		
None			
Recommendations			
None			
Item 122	Adequacy of controls	Compliance rating	
Electricity Industry Act section 11	rating	- Compilation rating	
Licenterly madelly rich deciden 11	A	1	
Licence: Generation			
Generation Licence condition 20.5			
A Licensee must comply, and must require the	Licensee's expert to com	ply, with the relevant	
aspects of the ERA's standard guidelines dealing	ng with the asset manage	ement system review.	
Observations			
Documents ☑ Compliance ☑			
Evidence: interviewed CEO, CFO, Site Superior	ntendent, listed staff. De	ocuments: The AMS	
review plan has been forwarded to the ERA ap	oroval of the reviewer ob	tained prior to	
appointment.			
Process 🗹 Outcome 🗹 Output	☐ Reporting ☐		
The Licensee has contracted with the reviewer Issues	to comply with the requir	ements.	
Issues			
None			
Recommendations			
None	3 //A		
N N			
Item 123	Adequacy of controls	Compliance rating	
Electricity Industry Act section 11	rating Not Performed	Not Rated	
Licence: Generation	Not renomied	Not Nateu	
Generation Licence condition 15.1	oor proposibaal if a Licens	ana in un den automal	
A Licensee must report to the ERA, in the many administration or there is a significant change in			
granted which may affect a Licensee's ability to		i willon the licence was	
Observations			
Desuments			
Documents ☐ Compliance ☐ Evidence: interviewed CEO, CFO, Site Superior	ntendent listed staff D	ocuments: Not	
applicable.	nondoni, notod stan.	odinonto. Not	
Process ☐ Outcome ☐ Output	□ Reporting □	Compliance	
The Licensee is not under external administrati		compliance with advice	
requirements.			
Issues			
None			
Recommendations			
None			
Item 124	Adequacy of controls	Compliance rating	
Electricity Industry Act section 11	rating	- Singhamo rading	
LIECTICITA IIIONOSII A VOLI SECTIOLI I I			
	A	1	
Licence: Generation		1	

A Licensee must provide the ERA, in the manning in connection with its functions under the Elect		nation the ERA requires
Observations	Holly Haustry Act.	
Evidence: interviewed CEO, CFO, Site Super advised that there have been no requests for i Compliance Report. Documents:	nformation from the ERA	other than the
Process ☑ Outcome ☑ Output		Compliance
The Licensee has met the reporting requirements	ents.	
None.	_	
Recommendations		
None.		
Trone.		
Item 125 Electricity Industry Act section 11	Adequacy of controls rating Not Performed	Compliance rating Not Rated
Licence: Generation	Not Fellolliled	Not Nateu
Generation Licence condition 17.1 & 17.2 A Licensee must publish any information it is of timeframes specified. Observations	lirected by the ERA to pu	blish, within the
Documents ☐ Compliance ☐ ☐ Evidence: interviewed CEO, CFO, Site Super applicable.	intendent, listed staff. D	Occuments: Not
Process □ Outcome □ Output	□ Reporting □	Compliance
The ERA has not directed any information to be publishing requirements.		
Issues		
None		
Recommendations		
None		
Item 126 Electricity Industry Act section 11	Adequacy of controls rating A	Compliance rating
Licence: Generation		
Generation Licence condition 18.1 Unless otherwise specified, all notices must be	e in writing.	
Observations		
Documents ☑ Compliance ☑		
Evidence: interviewed CEO, CFO, Site Super	intendent, listed staff. D	ocuments: Sample
communication with ERA sighted. Process ☑ Outcome ☑ Output	☑ Reporting ☑	I Compliance ☑
No notices have been required by the ERA. Al		
writing. Issues		
None Recommendations	_	
None		

2.19.3 ELECTRICITY INDUSTRY METERING CODE – LICENCE CONDITIONS AND OBLIGATIONS (ALL LICENCE CONDITION LICENCE CLAUSE 5.1)

Item 324	Adequacy of controls	Compliance rating			
Licence condition 5.1	rating				
	Not Performed	Not Rated			
Licence: Generation					
Electricity Industry Metering Code clause 3.3B					
A user who is aware of bi-directional flows at a m					
bi-directional electricity flows or any changes in a					
point which will result in bi-directional electricity f	lows must notify the netwo	rk operator within 2			
business days.					
Observations					
Documents □ Compliance □	/.0				
Evidence: interviewed Site Superintendent, lis	sted staff, inspected Gene	eration plant.			
Documents: n/a	Tuan				
Process □ Outcome □ Output	□ Reporting □	Compliance			
The Licensee has no meters with all metering					
	with the Licensee consuming power when there is no wind but normally exports power. These				
meters were always bi-directional and there has been no changes in a customer's or user's					
circumstances at a metering point.					
Issues	7) [
None					
Recommendations					
None					
Item 360	Adequacy of controls	Compliance rating			
Licence condition 5.1	rating				
	Not Performed	Not Rated			
Licence: Generation					
Electricity Industry Metering Code clause 3.11					
A Code participant who becomes aware of an		a metering installation			
must advise the network operator as soon as p	oracticable.				
Observations					
Documents ☐ Compliance ☐					
Evidence: interviewed Site Superintendent, lis	sted staff, inspected Gene	eration plant.			
Documents: n/a.					
Process ☐ Outcome ☐ Output	□ Reporting □	I Compliance □			
The Licensee has no meters with all metering					
any outage or malfunction to require advice.	•				
Issues					
None					
Recommendations					
None					
Ham 204	A de ause est est est est est	Compliance			
Item 364	Adequacy of controls	Compliance rating			
Licence condition 5.1		3			
Licented containent c. i	rating				
Licence: Generation		Not Rated			

	Electricity Industry Metering Code clause 3.27					
A person must not install a metering installation on a network unless the person is the network						
operator or a registered metering installation	provider for the network o	perator doing the typ	e of			
work authorised by its registration.						
Observations						
Documents ☐ Compliance ☐						
Evidence: interviewed Site Superintendent, li	isted staff, inspected Gen	eration plant.				
Documents: n/a.	iotou otali, iliopootou ooii	oration planti				
Process ☐ Outcome ☐ Output	t 🗆 Reporting 🗆	Compliance				
The Licensee has no meters with all metering						
Issues	,	,				
None						
None Recommendations						
Recommendations						
None						
		1				
Item 371	Adequacy of controls	Compliance rating				
	rating	N O O				
Licence condition 5.1	Not Performed	Not Rated				
Licence: Generation						
Electricity Industry Metering Code clause 4.4	(1)					
If there is a discrepancy between energy data h		n and data held in the				
metering database, the affected Code participar	nts and the network operator	or must liaise together	to			
determine the most appropriate way to resolve a	a discrepancy.					
Observations						
Documents □ Compliance □						
Evidence: interviewed Site Superintendent, li	isted staff, inspected Gen	eration plant.				
Documents: n/a.	, , ,	· W				
Process □ Outcome □ Output	t □ Reporting □	Compliance				
The Licensee has no meters with all metering						
metering database and no metering installation	on to allow a discrepancy.					
Issues						
None						
Recommendations						
None			-/			
Item 372	Adequacy of controls	Compliance rating				
Licence condition 5.1	rating	Compliance rating				
Licence condition 5.1	Not Performed	Not Rated				
Licence: Generation	Not i chomica	Not realed				
	(4)					
Electricity Industry Metering Code clause 4.5						
A Code participant must not knowingly permit the	e registry to be materially i	naccurate.				
Observations						
Documents ☐ Compliance ☐						
Evidence: interviewed Site Superintendent, li	isted staff, inspected Gen	eration plant.				
Documents: n/a.						
Process □ Outcome □ Output		= Oomphanoo				
The Licensee has no meters with all metering		Licensee is no				
knowledge of Western Power's registry other	than their own details.					
Issues						
None						

Recommendations				
None				
Item 373	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
Hanna Carantian	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 4.5(Subject to subclause 5.19(6), if a Code participal of a change to, or an inaccuracy in, an item of standard operator and provide details of the char	int, other than a network op tanding data in the registry,	, then it must notify the		
Observations				
Documents ☐ Compliance ☐				
Evidence: interviewed Site Superintendent, li	sted staff, inspected Gen	eration plant.		
Documents: n/a. Process □ Outcome □ Output	: □ Reporting □	☐ Compliance ☐		
The Licensee has no meters with all metering		- Compilarios —		
customers to have any registry data, nor has there been any change to their own data.				
Issues				
None	1 55. 4			
Recommendations				
None				
Item 388	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
Licence: Generation	Not Performed	Not Rated		
	(a)			
A user must, when reasonably requested by a n comply with the network operator's obligation ur	etwork operator, assist the	network operator to		
Observations				
Documents □ Compliance □				
Evidence: interviewed Site Superintendent, li Documents: n/a.	sted staff, inspected Gen	eration plant.		
Process ☐ Outcome ☐ Output	: □ Reporting □	☐ Compliance ☐		
The Licensee has no meters with all metering	by Western Power. There	e have been no requests		
from Western Power.				
Issues				
None				
Recommendations				
None				
Item 401	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 5.16 If a user collects or receives energy data from provide the network operator with the energy rules) within the timeframes prescribed.	a metering installation th			

Observations					
Documents □ Compliance □					
Evidence: interviewed Site Superintendent, li	sted staff, inspected Gen	eration plant.			
Documents: n/a.					
Process □ Outcome □ Output					
The Licensee has no meters with all metering		e Licensee does not			
collect or receive energy data from a metering	g installation.				
Issues					
None					
Recommendations					
None					
Item 402	Adequacy of controls	Compliance rating			
Licence condition 5.1	rating	Not Dated			
Licence: Generation	Not Performed	Not Rated			
Electricity Industry Metering Code clause 5.17					
A user must provide standing data and valida					
estimated, energy data to the user's customer is required by an enactment or an agreement					
providing metering services to the customer.	to do so for billing purpos	ses of for the purpose of			
Observations					
Documents					
Documents □ Compliance □ Evidence: interviewed Site Superintendent, li	etad staff inspected Gan	eration plant			
Documents: n/a.	sted stail, ilispected Gell	eration plant.			
Process □ Outcome □ Output	t □ Reporting □	☐ Compliance ☐			
The Licensee has no meters with all metering					
requirement by an enactment or an agreemer					
where necessary substituted or estimated, en	ergy data to the user's cu	stomer to which that			
information relates.					
Issues					
None					
Recommendations					
None					
		7			
Item 405	Adequacy of controls	Compliance rating			
Licence condition 5.1	rating Not Performed	Not Rated			
Licence: Generation	Not Performed	Not Rateu			
Electricity Industry Metering Code clause 5.18					
	If a user collects or receives information regarding a change in the energisation status of a				
metering point then the user must provide the network operator with the prescribed information,					
I including the stated affributes, within the time	network operator with the				
including the stated attributes, within the times Observations	network operator with the				
Observations	network operator with the				
Observations Documents □ Compliance □	network operator with the frames prescribed.	e prescribed information,			
Observations □ Compliance □ Evidence: interviewed Site Superintendent, li	network operator with the frames prescribed.	e prescribed information,			
Observations □ Compliance □ Evidence: interviewed Site Superintendent, li Documents: n/a.	network operator with the frames prescribed. sted staff, inspected Gen	e prescribed information, eration plant.			
Observations Documents □ Compliance □ Evidence: interviewed Site Superintendent, li Documents: n/a. Process □ Outcome □ Output	network operator with the frames prescribed. sted staff, inspected Gen	e prescribed information, eration plant. Compliance			
Observations □ Compliance □ Evidence: interviewed Site Superintendent, li Documents: n/a.	network operator with the frames prescribed. sted staff, inspected Gen Reporting by Western Power. The	eration plant. Compliance			
Observations Documents □ Compliance □ Evidence: interviewed Site Superintendent, li Documents: n/a. Process □ Outcome □ Output The Licensee has no meters with all metering	network operator with the frames prescribed. sted staff, inspected Gen Reporting by Western Power. The	eration plant. Compliance			

Recommendations		
None		
Item 406 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated
Licence: Generation	11011 0110111100	T TO T TO TO
Electricity Industry Metering Code clause 5.19 A user must, when requested by the network electricity industry practice, use reasonable electricity industry practice, and provide that information to the	operator acting in accordance avours to collect information its obligations described.	nation from customers,
Observations		
Documents □ Compliance □		
Evidence: interviewed Site Superintendent, li Documents: n/a. Process □ Outcome □ Output The Licensee has no meters with all metering from Western Power.	□ Reporting □	Compliance
Issues	E	
None	1/::=	
Recommendations		
None		
	5 HA	
Item 407 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 5.19 A user must, to the extent that it is able, collecting information in relation to the site of each connection.	ct and maintain a record o	
Observations		
Documents □ Compliance □		
Evidence: interviewed Site Superintendent, li Documents: n/a.	sted staff, inspected Gene	eration plant.
Process	by Western Power. The o	
Issues		
None		
Recommendations		
None		
Item 408 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 5.19	9(3)	

Subject to subclauses 5.19(3A) and 5.19(6), the user must, within 1 business day after becoming aware of any change in an attribute described in subclause 5.19(2), notify the network operator of the change.						
Observations						
Documents						
Evidence: interviewed Site Superintendent, li	sted staff, inspected Gen	eration plant.				
Documents: n/a.						
Process □ Outcome □ Output						
The Licensee has no meters with all metering	by Western Power. The	Licensee is not aware of				
any changes in attributes. Issues						
None Recommendations						
None						
Item 410 Licence condition 5.1	Adequacy of controls rating	Compliance rating				
Licence: Generation	Not Performed	Not Rated				
	2(0)					
Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network ope	ensure that it does not not in subclause 5.19(2) that					
Observations						
Documents □ Compliance □						
Evidence: interviewed Site Superintendent, li	sted staff, inspected Gen	eration plant.				
Documents: n/a.	Denorting	☐ Compliance ☐				
Process □ Outcome □ Output The Licensee has no meters with all metering from Western Power.						
Issues						
None						
Recommendations						
None						
Trono						
Item 416 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated				
Licence: Generation	140t i onomica	Hot Haloa				
Electricity Industry Metering Code clause 5.23	1/5)					
A Code participant must not request a test or au) unless the Code				
participant is a user and the test or audit relates						
user or the Code participant is the IMO.						
Observations						
Documents						
Evidence: interviewed Site Superintendent, li Documents: n/a.	sted staff, inspected Gen	eration plant.				
Process ☐ Outcome ☐ Output		☐ Compliance ☐				
The Licensee has no meters with all metering for tests or audits.	by Western Power. Ther	e have been no requests				
Issues						
None						

Recommendations		
None		
Item 417	Adequacy of controls	Compliance rating
Licence condition 5.1	rating Not Performed	Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 5.22 A Code participant must not make a request und access arrangement or agreement.		s inconsistent with any
Observations		
Documents ☐ Compliance ☐		
Evidence: interviewed Site Superintendent, li Documents: n/a.	sted staff, inspected Gene	eration plant.
Process ☐ Outcome ☐ Output	: □ Reporting □	☐ Compliance
The Licensee has no meters with all metering		
for tests or audits. Issues	7/40.	
None		
Recommendations	1 5:13	
None		
None		
Item 435 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated
Licence: Generation	Not Performed	Not Rated
Electricity Industry Metering Code clause 5.27	7	
Upon request from a network operator, the currentwork operator with customer attribute informatincorrect within the timeframes prescribed.	ent user for a connection po	
Observations		
Documents ☐ Compliance ☐		
Evidence: interviewed Site Superintendent, li	sted staff, inspected Gene	eration plant.
Documents: n/a. Process □ Outcome □ Output	Reporting	☐ Compliance ☐
The Licensee has no meters with all metering		
requests.		
Issues		
None		
Recommendations		
None		
Item 448 Licence condition 5.1	Adequacy of controls rating	Compliance rating
Licence: Generation	Not Performed	Not Rated
	(0)	
Electricity Industry Metering Code clause 6.1(A user must, in relation to a network on which procedures, agreements and criteria prescribe	it has an access contract	, comply with the rules,

Observations		
Documents ☐ Compliance ☐		
Evidence: interviewed Site Superintendent, li	isted staff, inspected Gen	eration plant.
Documents: Western Power ETAC.		
Process □ Outcome □ Output		□ Compliance □
The Licensee has an access contract with We		been no breaches of
the rules, procedures, agreements and criteria	a prescribed.	
Issues		
None		
Recommendations		
None		
Item 451	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	la de la companya de
License	Not Performed	Not Rated
Licence: Generation	100	
Electricity Industry Metering Code clause 7.2		
Code participants must use reasonable endeave	ours to ensure that they ca	n send and receive a
notice by post, facsimile and electronic commur telephone number for voice communication in c		e network operator of a
Observations	officetion with the code.	
Documents Compliance	inted staff in an acted Com	anation plant
Evidence: interviewed Site Superintendent, li Documents: n/a.	istea stair, inspectea Gen	ieration plant.
Process	t	☐ Compliance ☐
The Licensee has no meters with all metering		
contact details and the licensee's control roor		V
Issues		
None		
Recommendations		
None		
None		
Item 453	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	comprising
	Not Performed	Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 7.2	(4)	
If requested by a network operator with whom it		s contract, the Code
participant must notify its contact details to a ne	twork operator within 3 bus	siness days after the
request.		
Observations		
Documents □ Compliance □		
Evidence: interviewed Site Superintendent, I	isted staff, inspected Gen	eration plant.
Documents: n/a.		
Process		□ Compliance □
The Licensee has no meters with all metering Western Power has the contact details.	by Western Power. Thei	e has been no request.
Issues		
None		
Recommendations		
None		

Item 454 Licence condition 5.1	Adequacy of controls Compliance rating Not Performed Not Rated						
Licence: Generation	140t i Cilolilica	140t Nated					
Electricity Industry Metering Code clause 7.2(5) A Code participant must notify any affected network operator of any change to the contact details it notified to the network operator under subclause 7.2(4) at least 3 business days before the change takes effect. Observations							
Documents ☐ Compliance ☐							
Evidence: interviewed Site Superintendent, li Documents: n/a. Process □ Outcome □ Output The Licensee has no meters with all metering	□ Reporting □	l Compliance □					
the contact details. Issues							
None							
Recommendations	Tupin						
None							
Trong							
Item 455 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated					
Licence: Generation							
Electricity Industry Metering Code clause 7.5 A Code participant must subject to subclauses 5.17A and 7.6 not disclose, or permit the disclosure of, confidential information provided to it under or in connection with the Code and may only use or reproduce confidential information for the purpose for which it was disclosed or another purpose contemplated by the Code.							
Observations							
Documents □ Compliance □ Evidence: interviewed Site Superintendent, li Documents: n/a.							
Process □ □ Outcome □ □ Output The Licensee has no meters with all metering	·						
confidential information to disclose.	by western rower. There	e nas been no					
Issues							
None							
Recommendations							
None							
Item 456 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated					
Licence: Generation							
Electricity Industry Metering Code clause 7.6(A Code participant must disclose or permit the d to be disclosed by the Code. Observations Documents D Compliance		ormation that is required					

Double Dutcome Dutput Reporting Compliance Dutput Reporting Compliance Dutput Reporting Repo	Evidence: interviewed Site Superintendent, li Documents: n/a.	sted staff, inspected Gen	eration plant.
The Licensee has no meters with all metering by Western Power. There has been no confidential information to disclose. Sesses		Paparting	7 Compliance
Item 457			
None Recommendations None Recommendations None Recommendations None Recommendations None Recommendations None Recommendation Not Recommendation Not Recommendation Not Performed Not Reted Not Reted Not Recommendations Not Recom		by western Fower. Then	e nas been no
None Item 457			
Item 457	issues		
Item 457	None		
Item 457	Recommendations		
Item 457	None		
Licence: Generation Electricity Industry Metering Code clause 8.1(1) If any dispute arises between any Code participants then (subject to subclause 8.2(3)) representatives of disputing parties must meet within 5 business days after a notice given by a disputing party to the other disputing parties and attempt to resolve the dispute by negotiations in good faith. Observations Documents	None		
Licence: Generation Electricity Industry Metering Code clause 8.1(1) If any dispute arises between any Code participants then (subject to subclause 8.2(3)) representatives of disputing parties must meet within 5 business days after a notice given by a disputing party to the other disputing parties and attempt to resolve the dispute by negotiations in good faith. Observations Documents			
Licence: Generation Electricity Industry Metering Code clause 8.1(1) If any dispute arises between any Code participants then (subject to subclause 8.2(3)) representatives of disputing parties must meet within 5 business days after a notice given by a disputing party to the other disputing parties and attempt to resolve the dispute by negotiations in good faith. Observations Documents	Item 457	Adequacy of controls	Compliance rating
Not Performed Not Rated			Compliance raining
Licence: Generation	Licence condition 5.1		Not Rated
Electricity Industry Metering Code clause 8.1(1) If any dispute arises between any Code participants then (subject to subclause 8.2(3)) representatives of disputing parties must meet within 5 business days after a notice given by a disputing party to the other disputing parties and attempt to resolve the dispute by negotiations in good faith. **Observations** Documents** Documents** Compliance	Licence: Generation	Troct offormed	Hot Halou
If any dispute arises between any Code participants then (subject to subclause 8.2(3)) representatives of disputing parties must meet within 5 business days after a notice given by a disputing party to the other disputing parties and attempt to resolve the dispute by negotiations in good faith. Observations Documents			
représentatives of disputing parties must meet within 5 business days after a notice given by a disputing party to the other disputing parties and attempt to resolve the dispute by negotiations in good faith. Documents			
disputing party to the other disputing parties and attempt to resolve the dispute by negotiations in good faith. Documents Compliance			
Documents			
Documents Compliance Recommendations Compliance Recommendations Compliance Complia		d attempt to resolve the disp	pute by negotiations in
Compliance Deciments Compliance Deciments Compliance Deciments: n/a. Outcome Output Reporting Compliance Deciments: n/a. Outcome Adequacy of controls Compliance rating Not Performed Not Rated Not Rated Deciments: n/a. Outcome Deciments: n/a. Outcome			
Evidence: interviewed Site Superintendent, listed staff, inspected Generation plant. Documents: n/a. Process Outcome Output Reporting Compliance The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations None Item 458 Licence condition 5.1 Adequacy of controls rating Not Performed Not Rated Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents Compliance Reporting Compliance Compliance	Observations		
Documents: n/a. Process □ Outcome □ Output □ Reporting □ Compliance □ The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations None Item 458 Licence condition 5.1 Adequacy of controls rating Not Performed Not Rated Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents □ Compliance □ □ Evidence: interviewed Site Superintendent, listed staff, inspected Generation plant. Documents: n/a. Process □ Outcome □ Output □ Reporting □ Compliance □ The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations	Documents ☐ Compliance ☐		
Documents: n/a. Process □ Outcome □ Output □ Reporting □ Compliance □ The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations None Item 458 Licence condition 5.1 Adequacy of controls rating Not Performed Not Rated Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents □ Compliance □ □ Evidence: interviewed Site Superintendent, listed staff, inspected Generation plant. Documents: n/a. Process □ Outcome □ Output □ Reporting □ Compliance □ The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations		sted staff, inspected Gen	eration plant.
Process	·		
The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations None Item 458 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents		Reporting D	Compliance
to resolve. Issues None Recommendations None Item 458 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents			
None Recommendations Adequacy of controls Compliance rating rating Not Performed Not Rated		by Western Fewer: There	e nave been no disputes
None Item 458			
None None Adequacy of controls Compliance rating Not Performed Not Rated	100000		W
None Adequacy of controls Compliance rating Not Performed Not Rated			
Item 458 Licence condition 5.1 Adequacy of controls rating Not Performed Not Rated Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents	Recommendations		
Item 458 Licence condition 5.1 Adequacy of controls rating Not Performed Not Rated Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents	None		
Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents	110.110		
Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents			
Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents	Item 458	Adequacy of controls	Compliance rating
Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents			Compliance rating
Licence: Generation Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents □ Compliance □ □ Evidence: interviewed Site Superintendent, listed staff, inspected Generation plant. Documents: n/a. Process □ Outcome □ Output □ Reporting □ Compliance □ The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations	Licence condition 5.1		Not Rated
Electricity Industry Metering Code clause 8.1(2) If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations Documents	Licence: Generation	Not i chomica	Not Nated
If a dispute is not resolved within 10 business days after the dispute is referred to representative negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations			
negotiations, the disputing parties must refer the dispute to a senior management officer of each disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations			
disputing party who must meet and attempt to resolve the dispute by negotiations in good faith. Observations			
Documents □ Compliance □ Evidence: interviewed Site Superintendent, listed staff, inspected Generation plant. Documents: n/a. Process □ Outcome □ Output □ Reporting □ Compliance □ The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations			
Documents		esolve the dispute by negot	tiations in good faith.
Evidence: interviewed Site Superintendent, listed staff, inspected Generation plant. Documents: n/a. Process Outcome Output Reporting Compliance The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations	Observations		
Evidence: interviewed Site Superintendent, listed staff, inspected Generation plant. Documents: n/a. Process Outcome Output Reporting Compliance The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations	Documents □ Compliance □		
Documents: n/a. Process □ Outcome □ Output □ Reporting □ Compliance □ The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations		stad staff inapastad Can	oration plant
Process Outcome Output Reporting Ocompliance States and meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations	·	sted stair, inspected Gen	eration plant.
The Licensee has no meters with all metering by Western Power. There have been no disputes to resolve. Issues None Recommendations		Donostina I	1 Compliance
to resolve. Issues None Recommendations			
None Recommendations		by western Power. There	e nave been no disputes
None Recommendations			
Recommendations	Issues		
	None		
None	Recommendations		
	None		

Item 459	Adequacy of controls	Compliance rating						
Licence condition 5.1	rating Not Porformed	Nat Datad						
Licence: Generation	Not Performed	Not Rated						
	(0)							
Electricity Industry Metering Code clause 8.1(If the dispute is not resolved within 10 business management negotiations, the disputing parties of each disputing party who must meet and atterfaith.	days after the dispute is ref must refer the dispute to th	ne senior executive officer						
Observations								
Documents ☐ Compliance ☐								
Evidence: interviewed Site Superintendent, li	sted staff, inspected Gene	eration plant.						
Documents: n/a. Process □ Outcome □ Output The Licensee has no meters with all metering		Compliance □ have been no disputes						
to resolve.	·							
Issues	/.0							
None								
Recommendations	/ upon							
None								
Item 460	Adequacy of controls	Compliance rating						
Licence condition 5.1	rating Not Performed	Not Rated						
Licence: Generation								
Electricity Industry Metering Code clause 8.1(If the dispute is resolved by representative nego negotiations, the disputing parties must prepare adhere to the resolution.	tiations, senior manageme							
Observations								
Documents □ Compliance □								
Evidence: interviewed Site Superintendent, li Documents: n/a.								
Process Outcome Output								
The Licensee has no meters with all metering to resolve.	by Western Power. There	e have been no disputes						
Issues								
None								
Recommendations								
None								
Tions	V							
Item 461 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated						
Licence: Generation								
Electricity Industry Metering Code clause 8.3(The disputing parties must at all times conduct t achieving the objective in subclause 8.3(1). Observations		ich is directed towards						
	T							
Documents ☐ Compliance ☐ Evidence: interviewed Site Superintendent, li	isted staff inspected Conv	aration plant						
Documents: n/a.	sted stair, inspected Gene	station plant.						

Process		Outcome		Output		Reporting		Compliance	
The Licensee	has	no meters with	all r	netering by	Wes		here	have been no c	lisputes
to resolve.				0 ,					•
Issues									
NI									
None									
Recommend	atior	าร							
None									



2.20 ASSET MANAGEMENT SYSTEM REVIEW RESULTS AND RECOMMENDATIONS

Asset Planning	Process/Policy rating	Effectiveness rating	
_	A	Not Rated	

1. Asset planning

Asset planning strategies are focused on meeting customer needs in the most effective and efficient manner (delivering the right service at the right price).

Observations

Asset Planning Process/Plan and its currency

Collgar Wind Farm is located 25 km south east of Merredin in Western Australia. The plant is operated by Vestas Australian Wind Technology Pty Ltd (Vestas) which has been contracted to provide the operation and maintenance services.

The power station consists of 111 Vestas V90 1.86 MW wind turbines with a total generating capacity of 206 MW. The assets also include Operation and Maintenance (O&M) buildings, high voltage switchyard, a 33kV underground / overhead collection facilities and property leases.

CWF Holdings Pty Ltd and its 100% owned operating subsidiary Collgar Wind Farm Pty Ltd (together, **Collgar**). CWF Holdings Pty Ltd is owned by the UBS International Infrastructure Fund Holding Cooperative U.A. (**UBS**) and by the Retail Employees Superannuation Trust (**REST**). Collgar is a proprietary special purpose entity established to develop, finance, construct, own and operate the Collgar Wind Farm. Collgar's sole business is the generation of electricity from the Collgar Wind Farm and the sale of such energy into the Western Australian Wholesale Electricity Market (the **WEM**) or directly to its main off-taker, Synergy, by way of bilateral arrangements under the Energy Supply Contract.

The Licensee (Collgar Wind Farm Pty Ltd) is an entity established by the owning partners to operate and maintain the plant and accordingly the full scope of asset management is not able to be carried out by the Licensee. The Licensee's role, business model and resources are those consistent with operating and maintaining wind turbine generation plant and does not have the capacity to undertake strategic asset management functions. The licensee would not necessarily be involved in the planning or creation of a new asset. The holding company and not the License would be involved in asset creation. The owning partners are involved in asset planning. The decision to dispose of the licensed assets would be made by the owners and not the Licensee.

Service strategies and service standards are set out in asset planning documents.

The Licensee has business plan (2016-2020), Maintenance and Environmental plan, life of asset management plan and contracts with manufacturer which constitute the elements of an asset management plan. The plan is appropriate for the scale and nature of the operations and scope undertaken by the Licensee.

Allocation of responsibilities / statutory obligations

The organisational arrangements allocate responsibilities. There is documentation requiring compliance with statutory obligations.

Evaluation Criteria summary Licensee

1.1 Asset management plan covers key requirements.

ANR

Response: AMP meets this criterion.

- 1.2 Planning process and objectives reflect the needs of all stakeholders and is integrated with business planning at operational and maintenance level.
- Response: The AMP meets this criterion and reflects the needs of all stakeholders and is integrated with business planning at operational and maintenance level.

 No asset planning is undertaken by the Licensee.
 - 1.3 Service levels are defined.

A1

- Response: The AMP defines service levels such as availability, performance against the actual wind profile and expected from forecast wind profile.
 - 1.4 Non-asset options (eg demand management) are considered. A1
- Response: The AMS is substantially about utilization of the current assets as new proposals are likely to be outside scope of operations. Further asset options are unlikely at the moment (there is capacity to add additional wind turbine generators) and non-asset options such as better utilization of the current assets will be most likely for capacity increases.
 - 1.5 Lifecycle costs of owning and operating assets are assessed. A1
- Response: The AMP meets this criterion with lifecycle costs of owning and operating assets assessed. The capital cost will be considered and costed in terms of the assets cost viability. Servicing the market is the dominant requirement for the assets with profitability being the major driving force. The Licensee has a life of asset management plan (LAMP) covering operational and maintenance issues.
 - 1.6 Funding options are evaluated.

ANR

ANR

- Response: Funding is determined by what is necessary to serve generating operational and maintenance functions. Asset planning is outside the scope of operation of the Licensee.
 - 1.7 Costs are justified and cost drivers identified.
- Response: Any proposal would include justification of costs and identification of cost drivers. Asset planning is outside the scope of operation of the Licensee.
 - 1.8 Likelihood and consequences of asset failure are predicted.
- Response: The evaluation of risks addressed in the AMP cover the aspects of asset failure and consequences on operation and maintenance. Asset planning is outside the scope of operation of the Licensee.
 - 1.9 Plans are regularly reviewed and updated.

A1

Response: The AMP meets this criterion as the responsibility of review of the AMS is assigned to the Site Superintendent. It was reviewed internally by CEO.

Evaluation Criteria summary Owner

1.1 Asset management plan covers key requirements.

Α1

- Response: This site's AMP meets this criterion. The business plan provides the owners information on key requirements for this site. As significant investors in the market they will have robust asset management processes as evidenced by the documentation for this site.
 - 1.2 Planning process and objectives reflect the needs of all stakeholders and is integrated with business planning.
- Response: The AMP meets this criterion and reflects the needs of all stakeholders and is integrated with business planning. The business plan provides the owners

	ma	arket they will have	e rol	oust asset manag		As significant investors in ent processes as evidence	
		documentation for					
1.3		Service levels are defined.					
		The AMP defines service levels for this site.					
1.4		Non-asset options (eg demand management) are considered. A1					
Response:			•			ne current assets as new	
	are ge	e unlikely at the m nerators) and non sets will be most I	ome -ass ikely	ent (there is capac set options such a r for capacity incre	city to s be ease		ine ent
1.5		ecycle costs of ov					A 1
	in to	sets assessed for terms of the electr minant requireme ce.	this ical nt fo	site. The capital of assets cost viabiler the assets with	cost ity. S	sts of owning and operatir will be considered and co Servicing the market is the tability being the major dr	ested e iving
1.6		nding options are					A1
Response:	an	d maintenance fui	nctio	ons. Asset plannin	g wo	o serve generating operations of serve generations serve generating operations.	
		osts are justified a				ets and identification of co	
Response.		vers including ava		-			St
1.8		elihood and cons		•			A 1
Response:			•			cover the aspects of asse	
ľ		lure and conseque					
1.9 Response:		ans are regularly r The AMP meets t nually.				plan for this site is review	A1 red
Asset mar	nag	ement process a	nd	policy definition			
Process	$\overline{\mathbf{V}}$	Policy	$\overline{\mathbf{A}}$	Documentation	V		
			/				
Licence, A Generators register, bu	sset s (W usin	t Register, Enviror /TG) layout plan, <i>i</i>	nme Asse	ntal Plans and Ap	prov	Documents: Generation vals, Spares List, Wind Tu Risk management policy,	
Process		Availability		Use			
1.00000		, tranability		000			
Issues							
and mainta undertake appropriate	ainin stra e foi	ng wind turbine ge tegic asset manag r the scale and na	nera gem ture	ation plant and do ent functions. Giv of the business.	es n en tl	nose consistent with opera ot have the capacity to his context the plan is	ating
The interna	al re	views of the AMP	are	carried out annua	ally.		

Recommendation	
None	

Asset Creation	Process/Policy rating Not Performed	Effectiveness rating Not Rated

2. Asset creation and acquisition

Asset creation/acquisition means the provision or improvement of an asset where the outlay can be expected to provide benefits beyond the year of outlay.

Observations

in asset creation.

Policies and procedures for asset creation / sample creation activities The Licensee (Collgar Wind Farm Pty Ltd) is an entity established by the owning partners to operate and maintain the plant and accordingly the full scope of asset management is not able to be carried out by the Licensee. The Licensee's role, business model and resources are those consistent with operating and maintaining wind turbine generation plant and does not have the capacity to undertake strategic asset management functions. The licensee would not necessarily be involved in the creation of a new asset. The holding company and not the License would be involved

Procurement of major generation plant is a very significant exercise taking considerable time. There are documented procedures for creation of fixed assets. There has been no creation in the review period.

Meeting statutory obligations

There are documents and policies requiring contractors to comply with statutory obligations. There are HR standards that deal with compliance of these obligations.

Evaluation Criteria summary Licensee

- 2.1 Full project evaluations are undertaken for new assets, including comparative assessment of non-asset solutions.

NPNR

NPNR

- Response: Asset creation is outside the scope of operation of the Licensee.
 - 2.2 Evaluations include all life-cycle costs
- Response: Asset creation is outside the scope of operation of the Licensee.
 - Projects reflect sound engineering and business decisions 2.3 **NPNR**
- Response: Asset creation is outside the scope of operation of the Licensee. The Licensee has the resources in house and by contract to ensure sound engineering and business decisions. The owners and banks require good quality procurement.
 - 2.4 Commissioning tests are documented and completed NPNR
- Response: Asset creation is outside the scope of operation of the Licensee. The Licensee has the resources in house and by contract to ensure commissioning tests are documented and completed.
 - 2.5 Ongoing legal/environmental/safety obligations of the asset owner are assigned and understood ANR

Response: The responsibilities of the AMS are assigned to the CEO and Site Superintendent and understood. Legal, environmental and safety are key components of new project work within the organisation.

Evaluation Criteria summary Owner

		project evaluations			new	assets, including comp	arative ANR
Response: Full project evaluations will occur for Asset creation. The Banks require good quality procurement.							ire
2.2	_	aluations include					ANR
				•	ദ വ	ccurred for this site.	,
•				gineering and bus			ANR
						und engineering and bu	
rtooponoo		cisions as occu				and originooning and ba	5111000
2.4				documented and	com	pleted	ANR
		-				mmissioning tests are	,
rtooponoo				eted as occurred			
2.5			-			of the asset owner are	
		gned and under					ANR
Response	e: `	The responsibi	lities (of the AMS are as	sign	ed to the CEO and	
	un	The second secon			_	are key components of	new
						pecifically required to be	
	ad	dressed in proje	ects.				
		den					
• .	-	1					
Asset ma	ınag	ement process	and	policy definition			
Process	V	Policy		Documentation	V	1179.0	
Evidence	: inte	erviewed Site S	uperir	tendent, listed sta	aff.	Documents: Business	plan,
Asset Reg	giste	r,					
Asset ma	ınag	ement perform	ance				
Process	Ø	Availability	Ø	Use	V		
Issues			114	110			
The Licen	see'	s role business	mode	el and resources a	are t	hose consistent with	
						and does not have the	
						The procurement proces	2022
		e for this site.	<i>c</i> assi	or creation randio	113.	The procurement proces	3303
arc appro	Priat	C TOT TITIS SILE.					
Recomm	enda	ation		224			
None.							

Asset Disposal	Process/Policy rating	Effectiveness rating	
	Not Performed	Not Rated	

3 Asset disposal

Effective asset disposal frameworks incorporate consideration of alternatives for the disposal of surplus, obsolete, under-performing or unserviceable assets. Alternatives are evaluated in cost-benefit terms.

Observations

Policies and procedures for asset disposal / sample disposal activities

The Licensee (Collgar Wind Farm Pty Ltd) is an entity established by the owning partners to operate and maintain the plant and accordingly the full scope of asset management is not able to be carried out by the Licensee. The Licensee's role, business model and resources are those consistent with operating and maintaining wind turbine generation plant and does not have the capacity to undertake strategic asset management functions. The decision to dispose of the licensed assets would be made by the owners and not the Licensee.

There was no disposal action in the review period.

Evaluation Criteria summary Licensee

- 3.1 Under-utilised and under-performing assets are identified as part of a regular systematic review process NPNR
- Response: Asset disposal is outside the scope of operation of the Licensee. There are make good requirements in land leases and in the Environmental approval for this site.
 - 3.2 The reasons for under-utilisation or poor performance are critically examined and corrective action or disposal undertaken NPNR
- Response: Asset disposal is outside the scope of operation of the Licensee. For this site the most likely issue is plant failures and these are critically examined. There is unlikely to be disposal of the asset but components will be disposed as they become unserviceable.
 - 3.3 Disposal alternatives are evaluated

NPNR

- Response: Asset disposal is outside the scope of operation of the Licensee.
 - 3.4 There is a replacement strategy for assets

NPNR

Response: Asset disposal is outside the scope of operation of the Licensee. For this site, replacement will be determined by expansion need or a finding from condition based maintenance. There are make good requirements in land leases and in the Environmental approval for disposal.

Evaluation Criteria summary Owner

- 3.1 Under-utilised and under-performing assets are identified as part of a regular systematic review process

 ANR
- Response: There is little likelihood of disposal of the system or portions thereof for this site. There are make good requirements in land leases and in the Environmental approval for make good/disposal.
 - 3.2 The reasons for under-utilisation or poor performance are critically examined and corrective action or disposal undertaken

 ANR
- Response: The most likely issue is plant failures and these are critically examined. There is unlikely to be disposal of the asset but components will be disposed as they become unserviceable.
 - 3.3 Disposal alternatives are evaluated

ANR

Response: There is little likelihood of disposal of the system or portions thereof for this site.						
3.4	Thei	re is a replaceme	nt st	rategy for assets		ANR
Response	: R	eplacement will b	oe de	etermined by expa	ansic	on need or a finding from
		ndition based ma				3
Asset ma	nag	ement process	and	policy definition		
Process	Ø	Policy	1	Documentation	Ø	
Evidence	: int	erviewed Site Su	perir	tendent, listed sta	aff.	Documents: WTG location
plans, Bus	sines	ss plan				
Asset ma	nag	ement performa	nce			
Process		Availability		Use		
Issues	5			600	2	
The Licensee's role, business model and resources are those consistent with operating and maintaining wind turbine generation plant and does not have the capacity to undertake strategic asset disposal functions.						
Recommendation						
None		724				

Environmental analysis	Process/Policy rating	Effectiveness rating	
	A	1	

4 Environmental analysis

Environmental analysis examines the asset system environment and assesses all external factors affecting the asset system.

Observations

Standards / monitoring / reporting / breaches

The Licensee (Collgar Wind Farm Pty Ltd) is an entity established by the owning partners to operate and maintain the plant and accordingly the full scope of asset management is not able to be carried out by the Licensee. The Licensee's role, business model and resources are those consistent with operating and maintaining wind turbine generation plant and does not have the capacity to undertake strategic asset management functions. Assessing opportunities and threats in system environment would be made by the owners and not the Licensee.

The Licensee has an Environmental Management Plan (EMP). Reporting and monitoring tools are appropriate.

The Licensee has a number of environmental licences and no unresolved issues have arisen with respect to environmental matters. No non-compliances have been reported.

The principal external threats to the assets relate to bush fires and lightning. The plant has the capacity to withstand any likely wind condition for this site and has a good lightning protection system. The capability to meet customer capacity requirements is part of the asset management plan.

Evaluation Criteria summary Licensee

4.1 Opportunities and threats in the system environment are assessed NPNR Response: Assessing opportunities and threats in system environment would be made by the owners and not the Licensee. This facility is subject to SWIN network threats such as outages, voltage, frequency, fault and stability performance. This generation should improve the stability of the Western Power 220kV line.

4.2 Performance standards (availability of service, capacity, continuity, emergency response, etc) are measured and achieved

A1

Response: The AMS meets this criterion with service standards defined for this site.

4.3 Compliance with statutory and regulatory requirements

Response: The Licensee's HR policy documents require compliance with statutory and regulatory obligations. There have been no noted environmental breaches for the assets covered by the licence during the review period. Procedures at site require environmental approval for new projects, clearing of ground, protection of threatened birdlife and other activities that impact the environment. Policy documents were sighted.

4.4 Achievement of customer service levels

Α1

Response: The AMP defines the customer service levels for this site.

Environmental requirements are met. There are no external customers to consider as part of the environment and outages.

Evaluation Criteria summary Owner

4.1 Opportunities and threats in the system environment are assessed

A1

Response: Assessing opportunities and threats in system environment would be made by the owners. Change in Western Australian market may have an effect on such developments. This facility is subject to SWIN network threats such as outages, voltage, frequency, fault and stability performance. 4.2 Performance standards (availability of service, capacity, continuity, emergency response, etc) are measured and achieved A1 Response: The AMS meets this criterion with service standards defined for this site. 4.3 Compliance with statutory and regulatory requirements A1 Response: For this site the Licensee's HR documents require compliance with statutory and regulatory obligations. There have been no noted environmental breaches for the assets covered by the licence during the							
review period. Procedures at site require environmental approval for new projects, clearing of ground, protection of threaten birdlife and other activities that impact the environment. Policy documents were sighted. 4.4 Achievement of customer service levels Response: The AMP defines the customer service levels for this site. Environmental requirements are met. Renewable energy requirements are met as are obligations to shareholders.							
Asset ma	nag	ement process a	and	policy definition			
Process	V	Policy	V	Documentation	V		
Evidence: interviewed Site Superintendent, listed staff and staff on site listed. Documents: Environmental Plans and Approvals, WTG layout plans, business plan, Risk management policy, Risk register.							
Asset ma	nag	ement performa	nce				
Process	Ø	Availability	V	Use	$\overline{\mathbf{A}}$		
Issues							
Assessing opportunities and threats in system environment would be made by the owners and not the Licensee. For this site, there are no environmental non-compliances reported. Collgar monitors and considers the environment in which it operates.							
Recomm	Recommendation						
None					1		

Asset operations	Process/Policy rating	Effectiveness rating		
	A	1		

5 Asset operations

Operations functions relate to the day-to-day running of assets and directly affect service levels and costs.

Observations

Policies and procedures for asset operation / sample activities

The system is operated by Western Power from SWIS system control. The asset operation is appropriate for the duty.

The Licensee records outages automatically on SCADA. Performance is closely monitored. The service levels are defined.

The asset register is part of the maintenance system and supported by spread sheets and standard procedures.

Training/ resources / exceptions

Western Power operates the plant and the Licensee controls the plant, mainly for maintenance requirements. The resourcing is considered appropriate for the size of the plant and ongoing training is evident, as are the operating procedures and practices. Plant operation and related maintenance appears to take due allowance of any possible faults or operating requirements in the licensed plant.

Evaluation Criteria summary

- 5.1 Operational policies and procedures are documented and linked to service levels required
 A1
- Response: The AMS meets this criterion with service standards defined. Planned maintenance takes place at low wind forecast times.

 The Generation system is operated from system control outside maintenance/fault switching. Operational policies are substantially maintenance/reliability matters and those dictated by SWIN system requirements.
- 5.2 Risk management is applied to prioritise operations tasks

 Response: There is very little operational control at site other than maintenance requirements. Risk analysis is applied by developing a task hazard analysis for all tasks on the site.
 - 5.3 Assets are documented in an Asset Register including asset type, location, material, plans of components, an assessment of assets physical/structural condition and accounting data
 A1
- Response: Asset registers are contained with the appropriate information in the SAP system with each WTG listed as an asset. Balance of plant (BoP) asset register on cloud based systems. Current database for BoP is Trunk.
 - 5.4 Operational costs are measured and monitored A1
- Response: Operational costs staffing, contracts and materials are measured and monitored.
 - 5.5 Staff resources are adequate and staff receive training commensurate with their responsibilities A1
- Response: The staff receives training commensurate with their responsibilities.

 Personnel undergo HV Operator training for switching operations at established training centres.

Staff are adequate for effective operation of the plant.								
Asset ma	Asset management process and policy definition							
Process	V	Policy	V	Documentation	V			
Evidence: interviewed Site Superintendent, listed staff and staff on site listed. Documents: Asset Register, Environmental Plans and Approvals, Spares List, WTG layout plans, business plan, Risk management policy, Risk register, training certificates.								
Asset ma	nag	ement performa	nce					
Process	V	Availability	V	Use	V			
Issues								
The asset operation is appropriate for the duty.								
Recommendation								
None								

Asset Maintenance	Process/Policy rating	Effectiveness rating
	A	1

6 Asset maintenance

Maintenance functions relate to the upkeep of assets and directly affect service levels and costs.

Observations

Policies and procedures for asset maintenance / sample activities
The SAP business application is used by Collgar for WTG and Trunk for BoP.

The business plan contains performance measures and the Service Availability Agreement (SAA) with Vestas contains significant maintenance requirements. BoP maintenance requirement are scheduled well in advance.

The Licensee engages Vestas to undertake their maintenance. Condition inspection of the plant is routinely carried out. Inventory of critical spares has been developed.

Training / resources / exceptions

Maintenance is scheduled well into the future (eg 7 months for WTG) and these actions are appropriate for the type of equipment. The resourcing is appropriate and ongoing training is evident as are the operating procedures and practices. High Voltage training occurs at Registered Training Organisations. HSE requirements are addressed (eg working at heights). Plant maintenance appears to take account of any expected failures in the licensed plant.

Evaluation Criteria summary

- 6.1 Maintenance policies and procedures are documented and linked to service levels required A1
- Response: Policies and procedures are documented. The business plan supports this criterion with service standards defined. The Life of Asset Management Plan (LAMP) sets out requirements for BoP. SAP manages inventory for WTGs. A spreadsheet manages inventory for BoP. SAP reports overdue maintenance which is used to improve asset management controls.
- 6.2 Regular inspections are undertaken of asset performance and condition A1
 Response: The SAP maintenance planning system fulfils this criterion by regular scheduling of inspections to assess condition. Time based schedules are set up for physical inspection, testing and collection of samples for condition based analysis (eg oil sampling, coolant and hydraulics on WTG etc)
 - 6.3 Maintenance plans (emergency, corrective and preventative) are documented and completed on schedule

 A1

Response: Corrective (condition based) and preventative maintenance plans can be recorded in the SAP system. Each WTG has maintenance scheduled. The generators have condition monitoring and vibration analysis on WTG with the active monitoring leading to more repairs but less failures. Preventative maintenance is scheduled at forecast low wind periods. BoP is time based maintenance and is moving to condition based maintenance. The maintenance planners run the maintenance process.

6.4 Failures are analysed and operational/maintenance plans adjusted where necessary A1

Response: Failures are analysed locally, by Vestas engineering in Melbourne and if required in Denmark. There have been lightning strikes on blades (~3/year) but no damage occurred. There have been cable termination

faults with these being cause by poor workmanship on original installation. The joints have been reworked. There was no evidence of significant									
failure warranting adjustment of the plans within the review period.									
6.5 Risk management is applied to prioritise maintenance tasks									
Response	Response: Maintenance tasks and frequencies have been developed over a period of								
time using local experience, industry and world standards.									
	6.6 Maintenance costs are measured and monitored								
Response					ed a	nd monitored by the site to			
		duce the likely imp							
		e performance of et worldwide.	tne	fleet is compared	to ti	he performance of Vestas			
Asset ma			and	policy definition					
A33Ct IIId	nag	ement process t	iiid	policy definition					
Process	K	Policy	V	Documentation	Ø				
Evidence	Evidence: interviewed Site Superintendent, listed staff and staff on site listed.								
Documen	ts: A	sset Register, En	viro	nmental Plans and	d Ap	provals, Spares List,			
Commissi	onin	g Plans, WTG lay	out/	plans, Business p	olan,	Risk management policy,			
Risk regis	ter	upin							
Asset ma	nag	ement performa	nce		3				
Process	V	Availability	V	Use	V				
Issues		71 17							
issues									
None.									
Recomm	enda	ation							
None		-	(o						

Asset Management	Process/Policy rating	Effectiveness rating		
Information System	A	1		

7 Asset Management Information System (MIS)

An asset management information system is a combination of processes, data and software that support the asset management functions

Observations

Policies and procedures

The Licensee has a competent asset management information system with a number of elements. The maintenance management system based on the SAP business software system SAP 7400.1.3.1103/Trunk V1.1 (described in section 6 above). The system allows for both time based and condition based activities. The system was viewed. The Licensee uses standard financial packages.

The maintenance system links project management to scheduled tasks to standard work plans, asset register and parts inventory by SAP for WTG and spreadsheet for BoP. Documentation and familiarity of the system appears appropriate.

Access to write to the database is controlled (passwords) and changes are tracked. There is good documentation for data recovery procedures which include operating on the office server and backing up the servers to ensure data integrity.

The reliability of the plant is evidence of good maintenances practices and that exceptions are being followed up.

Evaluation Criteria summary

- 7.1 Adequate system documentation for users and IT operators
- Response: The IT system is well documented. The system is intuitive with online assistance and documentation is rarely required. The viewing of Historic data is also intuitive.
 - 7.2 Input controls include appropriate verification and validation of data entered into the system A1
- Response: The system is easy to use with a maintenance focus rather than a database focus and includes appropriate verification and validation of data entered into the system.
- 7.3 Logical security access controls appear adequate, such as passwords A1
 Response: Logical control is adequate with hierarchical access by password.
 Personnel are automatically logged out of computer systems after periods

of inactivity.

- 7.4 Physical security access controls appear adequate

 A1
- Response: Physical security is adequate with the system on access controlled site. Server room for SAP in office is locked. Server for SCADA is in substation which is secured. Backup tapes are held in safe.
- 7.5 Data backup procedures appear adequate and backups are tested A1 Response: Data backup is carried out daily and weekly on all servers. Backups are tested 3 monthly.
 - 7.6 Key computations related to Licensee performance reporting are materially accurate

 A1

A1

Response: There is minimal regular licence compliance computation work. Key computations related to Licensee performance reporting are materially accurate, to the extent possible to assess with visual inspection. 7.7 Management reports appear adequate for the Licensee to monitor licence obligations A1 Response: No detailed management reports are generated by the SAP system which							
		ould assist to mor rformance monite		•	s. Tr	ne key reports are for	
Asset ma	nag	ement process	and	policy definition			
Process	Ø	Policy	V	Documentation	V		
Evidence: interviewed Site Superintendent, listed staff and staff on site listed. Documents: Collgar Mining energy budget, Asset management plan, Viewed SAP, viewing of Historical database.							
Asset management performance							
Process	V	Availability	V	Use	V		
Issues							
None							
Recommendation							
None			٦				

Risk man	age	ment	Pro	ocess/Policy ration	ng		Effectiveness rating	
			А				I	
Risk mana	8 Risk management Risk management involves the identification of risks and their management within an acceptable level of risk.							
Observat	ions	j						
The Licen	see	rocedures has a documente d approaches is b		•	oce	dure a	and there is evidence	
				ioritised the threat ch are based on a			fic plant and developed t of risks.	
<i>Training</i> There is e	vide	nce of training ar	nd av	wareness by staff	of ris	sk bas	ed approaches.	
8.1	Evaluation Criteria summary 8.1 Risk management policies and procedures exist and are being applied to minimise internal and external risks associated with the asset management system. A1							
Response: The AMS meets this criterion. The risk management section of the plan set out risks, risk assessment and risk mitigation. There is a risk register and compliance register. There are spares (including spare blades, cables, DVAR parts and other equipment) on site for immediate use considered as critical for the WTG or balance of plant and in Melbourne for lower likely frequency/consequence events. 8.2 Risks are documented in a risk register and treatment plans are actioned and monitored. A1								
Response: The risk process is set out in the AMP. There is a risk register. The risk register is reviewed annually internally and externally. The mitigation control outcomes are shown in the risk register but mitigation control actions are actioned business operations and then reflected in the risk register. The Licensee concluded that the risk register was not the best tool to manage risk controls. 8.3 The probability and consequences of asset failure are regularly assessed								
Response: During the review period, the risks of asset failures have been assessed based on probability and consequence parameters. Forced outage events are studied to reduce the likely frequency /consequences of future events.								
Asset ma	inag	ement process	and	policy definition				
Process	Ø	Policy	Ø	Documentation	V			
Evidence: interviewed Site Superintendent, listed staff and staff on site listed. Documents: Asset Register, Environmental Plans and Approvals, Spares List, Commissioning Plans, WTG layout plans, Business plan, Risk management policy, Risk register, Risk Engineering report, HSE audit								
Asset ma	ınag	ement performa	ince					
Process	V	Availability	$\overline{\mathbf{A}}$	Use	$\overline{\mathbf{A}}$			

ssues	
None	
Recommendation	
None	



Continge	ncy	planning	Pro	ocess/Policy ration	ng	Effective	ness rating
			^			I	
	9 Contingency planning Contingency plans document the steps to deal with the unexpected failure of an asset.						
Observat	ions	3					
_		of contingency plants good docum		/ currency tion of its data rec	overy pla	ıns.	
				threats to specific inventory of spare	-	•	-
and major	r shu d on	tdowns allowed t condition based r	o de	ance scheduled or al with potential is tenance which mo	sues. Ma	aintenance is	s partly
The main outages.	tena	nce regime is gea	ared	to keeping the pla	int opera	tional withou	ut forced
9.1 Response	9.1 Contingency plans are documented, understood and tested to confirm their operability and to cover higher risks Response: The AMS meets this criterion despite there being no explicit contingency plan there is an emergency response plan and infrastructure risks through a risk engineering plan. Critical spares are identified and acquired including spare WTG blades. Standard spares are on site and lower frequency items in Melbourne. The emergency response plan has been tested by a real bushfire. Some changes to procedures were made following analysis of this incident. Routine testing is scheduled, with one emergency exercise per year and 2 emergency fire drills per year.						
Asset ma	nag	ement process a	and	policy definition			
Process	V	Policy	Ø	Documentation			
	Evidence: interviewed Site Superintendent, listed staff and staff on site listed. Documents: Emergency response plan, risk engineering plan.						
Asset management performance							
Process	V	Availability	Ø	Use	\square		
Issues			l .				
None							
Recomm	enda	ation					
None							

	I =	T				
Financial planning	Process/Policy rating A	Effectiveness rating				
	^	ı				
10 Financial planning The financial planning component of the asset management plan brings together the						
financial elements of the service		• •				
term.	e delivery to ensure its illianois	ii viability over the long				
Observations						
Financial planning process / planting		- 1 4				
The Licensee carries out budge and 5 year cycles and upgrade	J .	s. These are on 1 year				
and 5 year cycles and upgrade	u year by year.					
Costs are accrued monthly and						
go to the parent body's execution philosophy document together	·	which includes a financial				
	with the budget.					
Evaluation Criteria summary						
	states the financial objectives a	_				
to achieve the obje Response: There is a financial		A1				
the financial model.	•	r giver the emphasis of				
	dentifies the source of funds fo					
	recurrent costs A1 Response: The overall budget identifies the source of funds for recurrent costs. There					
are no capital costs						
	10.3 The financial plan provides projections of operating statements (profit and					
Response: The Licensed asse	t of financial position (balance	•				
	ial position (balance sheets) ar					
respect to budgets.	2900					
	provides firm predictions on inc ble indicative predictions beyor					
Response: The licensee predic		•				
	provides for the operations and	• .				
	capital expenditure requiremer					
Response: The financial plan p	provides for the operations and capital expenditure requiremen	·				
		•				
10.6 Significant variances in actual/budget income and expenses are identified and corrective action taken where necessary A1						
Response: When significant variation in expenditure or budget are noted this is						
investigated.						
Asset management process and policy definition						
Process 🗹 Policy	☑ Documentation ☑					
Evidence: interviewed Site Superintendent, listed staff and staff on site listed.						
Documents: Business plan, fina		an on one noted.				
Asset management performa	nce					

Process	Ø	Availability	\square	Use	I	
Issues						
None						
Recomm	enda	ation				
None						



Capital expenditur planning		Process/Policy A	rating	Effectiveness rating NR	
11 Capital expenditure planning The capital expenditure plan provides a schedule of new works, rehabilitation and replacement works, together with estimated annual expenditure on each over the next five or more years.					
	at least 10 ye	ears, preferably l	onger. Projecti	ons would normally be ions over the next five	
Observations					
	oudgeting and graded year b xt 5 to 25 yea	d monitoring pro by year. Long ra ars. Capital requ	nges forecastir irements would	•	
No capital expendite capability to add W		•	ugh there is fu	ture (not committed)	
Evaluation Criteria summary 11.1 There is a capital expenditure plan that covers issues to be addressed, actions proposed, responsibilities and dates ANR Response: The business plan has provisions for capital expenditure but there is no significant expenditure planned.					
expender Response: The bus	iture		•	and timing of ANR iture" values as these	
 11.3 The capital expenditure plan is consistent with the asset life and condition identified in the asset management plan A1 Response: The business plan sets out that the asset life. The plan responds to asset condition. 11.4 There is an adequate process to ensure that the capital expenditure plan is regularly updated and actioned A1 Response: The business plan sets out a review process. Collgar has financial review processes. 					
Asset managemen	it process ai	nd policy defin	ition		
Process 🗵 Police	СУ	☑ Documenta	tion 🗹		
Evidence: interviewed Site Superintendent, listed staff and staff on site listed. Documents: Business plan					
Asset managemen	nt performan	ice			
Process 🗹 Avai	ilahility	VI IIse	V		

Issues		
None.		
Recommendation		
None		



Review o	f AN	1S	Pr	ocess/Policy ratio	ng	Effectiveness rating	
			Α			1	
_	12 Review of AMS						
The asset	t mai	nagement system	n is r	egularly reviewed	and upda	ted.	
Observat	ions	3					
		•		•	•	based and needs an	
AMS. The	ere is	ongoing review	of th	e asset managem	ent plan.		
Evaluation	n Cri	iteria summary					
12.1						et management plan	
	ar	na the asset mana	ager	nent system desci	ribea there	ein are kept current A1	
Response	e: Th	e AMP assigns r	espo	onsibility for review	of the bu	siness plan to the CEO.	
		- · · · · · · · · · · · · · · · · · · ·				ness plan and the asset	
10.0		•		escribed therein a	•		
12.2		anagement syste	•	eg internal review)	are perior	A1	
Response		•		viewed internally a	innually ar	nd reported to the	
	OW	ners.					
Asset ma	nag	ement process	and	policy definition		A Par	
Process	V	Policy	V	Documentation			
Evidence	: inte	erviewed Site Su	perir	ntendent, listed sta	aff and sta	ff on site listed.	
				•		al Plans and Approvals,	
Spares List, Financial reports, WTG layout plans, business plan, Risk management policy, Risk register							
Asset management performance							
Process	V	Availability	<u> </u>	Use	$\overline{\mathbf{A}}$		
		7 (Validollity	П	000			
Issues							
None							
Recommendation							
None	None						

3 PHOTOGRAPHS



Spare Blade



Substation & Wind turbine Generators