



## **Independent review report to the Board of Directors of the Australian Energy Market Operator Limited (AEMO) for the Victorian Declared Wholesale Gas Market**

### ***Scope***

In accordance with our contract effective 1 January 2016, and extension agreement dated 5 December 2019, we were engaged by the Australian Energy Market Operator (AEMO) to perform an independent limited assurance engagement in respect of AEMO's internal control procedures in relation to compliance with Part 19 of the National Gas Rules (NGR) for the Victorian Declared Wholesale Gas Market, for the year ended 30 June 2020, in the following areas:

- the calculations and allocations performed by the metering and settlements systems
- billing and information systems
- the scheduling and pricing processes
- processes for software management
- the linepack account
- AEMO's compliance with Part 19 of National Gas Rules.

### ***AEMO Management's responsibilities***

AEMO Management is responsible for maintaining an effective internal control structure, including control procedures, to ensure compliance with Part 19 of the National Gas Rules for the Victorian Declared Wholesale Gas Market. This responsibility includes establishing and maintaining internal controls relevant to compliance with the NGR and the preparation and fair presentation of information that is free from material misstatement.

### ***Our Independence and Quality control***

We have complied with relevant ethical requirements related to assurance engagements, which include independence and other requirements founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

In accordance with Auditing Standard ASQC 1 *Quality Control for Firms that Perform Audits and Reviews of Financial Reports and Other Financial Information, Other Assurance Engagements and Related Services Engagements* the firm maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

### ***Our responsibilities***

Our responsibility is to express a limited assurance conclusion based on the procedures we have performed and the evidence we have obtained.

Our engagement has been conducted in accordance with the Australian Standard on Assurance Engagements (ASAE 3000) *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information*. That standard requires that we plan and perform this engagement to obtain limited assurance about whether anything has come to our attention to indicate that the AEMO internal control procedures in relation to the areas listed under the Scope section above, have not been, in all material respects, effectively designed and operated, in order to comply with the relevant criteria outlined in:

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- National Gas Rules, Part 19 ‘Declared Wholesale Gas Market Rules’ Division 1 to 9 – Version 46 (June 2019) to Version 55 (June 2020).

Where the effectiveness of key controls was used to determine compliance with the criteria above, the identification of key controls was performed with reference to applicable AEMO policy or procedure documentation.

The procedures we performed were based on our professional judgement and included:

- inquiry and observation of staff and management to understand the operation of controls
- review of relevant AEMO policies and procedures
- undertaking procedures to evaluate the design effectiveness of key controls
- performing limited sample testing to validate the operating effectiveness of key controls.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement and consequently the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed. Accordingly, we do not express a reasonable assurance opinion.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

### ***Scope Exclusions***

Our review did not include any assessment of compliance or controls by market participants other than AEMO. For example, our procedures didn’t consider application and IT controls over systems that are operated by external organisations, the compliance with Service Level Requirements, or the control procedures in place at those agencies not controlled by AEMO, such as:

- Liquefied Natural Gas System
- Allocation algorithm system
- Allocation Agencies
- Meter Data Agents
- Real time systems
- Distributors and Retailers.

To support AEMO processes, AEMO relies on market participants operating in compliance with the NGR or other relevant requirements (the ‘market participants’ compliance’). There are a number of AEMO’s internal control procedures that rely on market participants’ compliance, for example, among others:

- Market participants are responsible for the completeness and accuracy of Supervisory Control and Data Acquisition (SCADA) readings, which are used by AEMO to operate the gas market in compliance with the NGR.
- Initial administrator user access is granted to key AEMO applications on request from market participants who are then responsible for ongoing access management for the applications. This would include controls for the approval, termination and periodic review of user access for appropriateness.
- Metering data is received by AEMO from distribution businesses. AEMO assume that the metering data is complete, accurate and valid. Our control procedures are limited to the procedures AEMO performs to validate the reasonableness of this data.

Our procedures did not extend to assessing the market participants’ compliance.



It is assumed that automated pricing, gas scheduling and settlement calculations are consistent with the NGR. Our scope did not include certification of gas market systems including the Market Clearing Engine (MCE), Demand Forecasting System (DFS), Metering Management and Settlements System (MMS), or other market systems.

We accept no responsibility for the adequacy or accuracy of work performed by AEMO or the Independent Certifier in relation to system certification. We accept no liability to AEMO or to any other person for any part of our review report that relies on, or assumes the adequacy of, system certification.

Our work is based primarily on information supplied by management and was carried out on the basis that such information is accurate and complete.

Whilst our engagement may involve the analysis of financial information and accounting records, it does not constitute an audit in accordance with Australian Auditing Standards or a review in accordance with Australian Auditing Standards applicable to review engagements and accordingly no such assurance will be provided in our report or deliverables.

### ***Use of report***

This report was prepared for distribution to the Board of Directors of AEMO. We disclaim any assumption of responsibility for any reliance on this report to any persons or users other than the Board of Directors of AEMO, or for any purpose other than that for which it was prepared.

### ***Inherent limitations***

Because of the inherent limitations of any internal control system, it is possible that fraud, error or non-compliance may occur and not be detected. Further, the internal compliance and control culture has not been reviewed and no view is expressed as to its effectiveness.

A limited assurance engagement is not designed to detect all weaknesses in the internal compliance and control system, as it is limited primarily to making enquiries, with management and staff, undertaking procedures to evaluate design effectiveness of controls, analytical procedures and limited sample testing to validate the operating effectiveness of key controls. The limited assurance conclusion expressed in this report has been formed on the above basis.

### ***Materiality***

We have considered materiality when evaluating the effect of identified control weakness on our conclusion. Materiality is considered in the context of AEMO's objectives relevant to the area of activity being examined. When assessing materiality, we considered qualitative factors as well as quantitative factors, including:

- the purpose of the engagement and specific requirements of the engagement
- the economic, social, political and environmental impact of control weaknesses
- the importance of an identified control weakness in relation to the area of activities and the entities overall objectives
- the impact of a centralised function on other parts of the entity
- public perception and/or interest in the area of activity
- the cost of alternative controls relative to their likely benefit
- the length of time an identified control weakness was in existence.



**Summary of Findings**

The table below summarises findings reported which remain open as at 30 June 2020. This includes findings reported by AEMO management or through our review procedures.

	<b>Critical</b>	<b>High</b>	<b>Medium</b>	<b>Low</b>
Level 1	0	0	2	5
Level 2	0	0	2	5
Level 3	0	0	0	1
<b>Total</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>11</b>

The table below summarises findings from this period or open findings from prior periods which have been closed during FY20.

	<b>Critical</b>	<b>High</b>	<b>Medium</b>	<b>Low</b>
Level 1	0	0	1	1
Level 2	0	0	4	4
Level 3	0	0	0	2
<b>Total</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>7</b>

We have categorised control observations noted according to agreed risk and compliance ratings. The risk ratings applied for each finding are consistent with the likelihood and consequence matrix adopted by AEMO’s Risk and Audit Committee.

The ratings have been tailored to reflect the potential impact on the gas market as follows:

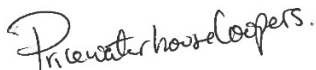
Risk Rating	Definition
Critical	Findings which may have a catastrophic impact on the market operations if they are not addressed immediately and require executive action with regular reporting at Board level.
High	Findings which may have a major impact on the market operations if they are not addressed as a matter of priority. These findings require senior management attention with regular monitoring and reporting at executive and Board meetings.

Risk Rating	Definition
Medium	Findings which may have a moderate impact on the market operations if they are not addressed within a reasonable timeframe. These findings require management attention with regular ongoing monitoring.
Low	Findings which may have a minor impact on market operations if they are not addressed in the future. These findings are the responsibility of management with regular monitoring and reporting at staff meetings.

Compliance Rating	Definition
Level 1	Evidence of non-compliance with review criteria. These should be addressed as a matter of high priority. (Breach)
Level 2	Issues which could possibly result in non-compliance with review criteria but where no evidence of actual non-compliance was found. However, there is considered to be insufficient formal evidence of controls in place or being actioned in relation to these issues. These should generally be addressed within one to two months. (Improvements in AEMO's controls to prevent a potential breach)
Level 3	Housekeeping matters and opportunities for improving internal controls and procedures relating to electricity market operations. These should be addressed within three to six months. (Better controls but not critical to prevent a breach)

### **Conclusion**

Based on our review, which is not an audit, nothing has come to our attention that causes us to believe that the Australian Energy Market Operator did not maintain, in all material respects, effective control procedures in relation to compliance with Part 19 of the National Gas Rules (NGR) for the Victorian Declared Wholesale Gas Market for the year ended 30 June 2020, based on the scope referred to above.



PricewaterhouseCoopers



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Partner

Melbourne  
11 September 2020