





2022 Gas Market Parameter Review for the DWGM and STTM

Summary of Submissions

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© **AEMO 2022** Page 2 of 35



Appendix A. Submission Summary

Question1: Do you have any comments on the appropriateness of the calculation of acceptable risk?

| Submitter | Submission Details | Initial AEMO comments |
|------------|--|--|
| AEC | The Consultation Report (p. 38) describes a method based on 500 days of lost profit by a participant to establish the maximum level of risk that the market settings are allowed to permit. However, the Consultation Report it does not provide any detail on assumed hedging levels. Nor, is there any description of assumptions relating to what hedging options participants are assumed to use to manage their risks (ie, contracts, storage, LNG storage, curtailments and demand response). If it is just contracting, then the modelling will be based on unrealistically elevated levels of risk for participants. In light of the above, it is not possible to provide an opinion on the Consultation Paper's approach. | Noted. See section 5.6 of methodology stating there are 60 participant types being assessed See section 5.9 of methodology which discusses hedging assumptions. |
| Brickworks | Risks also include: LNG exporters failing to meet their commitment to the Heads of Agreement Government or AEMO intervention preventing gas from being exported from another state into the STTM region. The APC applies in the STTM region, incentivising one or more market participants to reduce gas injections or increase gas withdrawals to move gas to a higher-priced Gas Market. For this reason, we suggest the AEMO consider raising a rule change request seeking: - the APC to apply in all Gas Markets if the CPT is triggered in at least one of the Gas Markets, and - for the APC to continue to apply until the accumulative price is below the CPT in all Gas Markets. | Noted. |
| CSR | The paper assumes that participants will be protected by long term arrangements that fix the price paid on the contracted portion of their gas consumption. The calculation should consider the scenario where | Noted. See section 5.9 of methodology. |

© **AEMO 2022** Page 3 of 35



| Submitter | Submission Details | Initial AEMO comments |
|-----------------|--|--|
| | an interruption impacts on a number of participants resulting in those participants being exposed to spot prices for the duration of the scenario. It's possible that a level of risk defined as 500 days lost profit is no longer suitable given the large increases in underlying prices since this was defined in 2013. | |
| EnergyAustralia | The brief outline of the concept of acceptable risk on page 38 of the paper is inadequate to elicit any meaningful stakeholder response. It presumes prior knowledge and comfort around an approach developed in 2013. Given the passage of time and the critical importance of this measure for AEMO's review, we recommend further 'deep dive' or similar focused consultation on the method, assumptions and data underlying this approach. In briefly reviewing the analysis underlying the 2013 review, it is not clear, for example, how days of operating profit equate to a measure of insolvency risk given the many factors affecting an entity's ability to withstand discrete or event-driven losses. The 500 day threshold also appears to be based on the tolerance of a new entrant retailer, and the relevance of other participants (including large users that are trade exposed) is unclear. The modelling of participant risk exposures should also factor in cash-flow impacts associated with different market price settings, including as they affect prudential requirements. | Noted. The 2013 Final Report will be published by AEMO on the consultation page for reference. Section 5.6 of the methodology details there are 60 participant types modelled as part of the assessment of Market Parameters. |
| Shell Energy | Shell Energy considers that markets operate most efficiently when price dynamics provide sufficient flexibility for participants to responsibly manage their risk exposure. Targeting a level of risk by participant type may unnecessarily constrain market price settings and restrict the market from providing efficient resource allocation and levels of investment. In particular, the 500 days of profit risk measure proposed in the consultation document does little to accommodate the assessment of investment needs against the highest marginal value of gas usage. Constraining the market by this measure across a range of participants is more likely to ensure that the investment signals provided | Noted. Noted. See section 5.6 of methodology stating there are 60 participant types being assessed See section 5.9 of methodology which discusses hiding assumptions. |

© **AEMO 2022** Page 4 of 35



| Submitter | Submission Details | Initial AEMO comments |
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| | in the model can only be matched to lower value gas consumption. This is unlikely to lead to efficient outcomes in the long term. | |
| | The 500 days of lost profit approach leads to further assumptions by participant type that are not detailed in the information provided for consultation. The modelling team needs to assume levels and type of contracting by participant type. It is unclear what these levels or types of contracting will be or whether the historical basis that will be used is appropriate for the expected future market environment. Participant contracting approaches change in response to market outcomes over time and it is unclear how this dynamic will be considered in the modelling. | |
| | Another major assumption is the profitability of each participant type for various parameter levels. The proposed approach to use aggregate ABS data by industry will result in major generalisations about profitability and therefore the acceptable level of risk in the gas markets. Shell Energy sees this as a major weakness of the proposed risk measure. | |
| | Shell Energy suggests that a second round of consultation be conducted prior to the modelling being undertaken. This second round would set out the details of all assumptions being made by the modelling team to ensure that stakeholders are comfortable with the approach being taken. The modelling and market parameter outcomes would benefit from this approach as a second round of consultation would allow market participants to provide feedback on specific inputs rather than just the high level modelling approach. | |

Question 2: A range of scenarios to be studied are listed in Appendix A. Do you think any major scenarios are missing, or that any scenarios proposed are not relevant?

| Submitter | Submission Details | AEMO Response |
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| AEC | The range and types of scenarios broadly appears to be reasonable. While Scenarios 12 and 13 have some of the characteristics of the | Noted. The methodology has been updated including: |

© AEMO 2022 Page 5 of 35



| Submitter | Submission Details | AEMO Response |
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| | 2022 energy crisis, consideration could be given to having the actual events of that crisis as a scenario. That is, low variable renewable energy (VRE) output, flood impaired coal mines, low coal stockpiles, extreme global coal gas and oil prices, cold winter (particularly in Queensland), etc. and all leading to a shortage of megawatt hours. With respect to Scenario 5, the AEC is unsure if there ever have been three consecutive days of one in 20 gas and would be interested to know if it has ever occurred or at the least come close to that. | Scenario 12 and 13 have been amended slightly to reflect the outcome. Scenario 5 has been updated to reflect comments. |
| Brickworks | We strongly oppose any linking of the APC to other indexes. Further, we do not support any linkage assumptions in the gas parameter modelling to international LNG spot prices, given there is no correlation to domestic gas market spot prices or forward contract prices. If there were a direct correlation, domestic gas consumers would have been able to buy gas as low as \$2.29/GJ during the COVID lockdowns. However, this did not occur. We disagree that the gas market parameters could increase compensation claims. Most market participants inject gas into Gas Markets to hedge against their financial price exposure for their withdrawals. This occurs irrespective of what contract price a market participant has paid for the gas it injects. Under such circumstances, there are no grounds for compensation because the market participant was injecting gas into a Gas Market to protect its financial exposure. This may also occur if the party injecting gas into a market is hedging against a short derivative position. In this situation, any compensation claims should consider all physical and financial hedging positions when assessing whether the claimant has incurred an actual loss. Brickworks strongly disagrees with any suggestion that the APC should increase. Any potential increase of the APC will not increase the net contribution of gas supply into Gas Markets. | Noted. AEMO notes that the methodology does not propose a linked APC but instead considers the feasibility of one while noting it is out of scope. See pg 30: "While our analysis considers scenarios with linkage to the world LNG market, we do not propose to explore a dynamic APC value as that is beyond the scope of this review which is focused on setting single values. Further, as we discuss, a dynamic APC value is challenging with respect to consumer cost exposure. This section does however provide some discussion of the issue." |

© **AEMO 2022** Page 6 of 35



| Submitter | Submission Details | AEMO Response |
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| CSR | Scenario 5C should be in the Progressive Change and not the Step Change given it is proposed for 2023 and we are not yet in a Step Change scenario. Scenario 6A and B are better suited to Progressive Change otherwise the scenarios are too unlikely to occur (i.e., Step Change and High levels of LNG are both low likelihood scenarios). | Noted. See updated Scenario 5C See Scenario 6A and 6B were considered to be more appropriately assessed under the progressive change noting there was not a sufficiently large difference in the two in the change scenarios. |
| EnergyAustralia | The paper notes the APC is intended to protect participants against short term events rather than address sustained increases in commodity prices, with the assumption that there is an underlying (stable) market equilibrium and associated 'typical' price levels. This review should, however, explore the risk of the APC being insufficient to recover persistently high commodity prices and so inform discussion of whether and how to deal with atypical cost drivers. Proposed scenarios 4 and 13 appear to be particularly relevant in this regard and we would further suggest that there be some combination of these risk drivers (i.e. high international prices, winter demands and coal outages) in a single scenario. Current international price pressures could persist or form part of new equilibrium price levels. The ACCC's current netback series suggests pricing above \$40/GJ well into 2024, which is within AEMO's forecast horizon for this review (i.e. from July 2023). The underlying gas prices in the 2022 GSOO Progressive and Step Change datasets may be worth revisiting across all the proposed scenarios in light of the higher values that are projected in current futures trading. The paper states that participant behaviour will be modified as part of a "truncated variation" in situations where supply costs are above the APC. In scenarios where this situation arises, the assumptions and calculations for these adjustments should be published and appropriately justified, for example by reference to observed market outcomes. There are also longer-term implications for a persistent or expected misalignment between the APC and commodity costs | Noted. The methodology has been updated including: 1. Scenario 12 and 13 reflect high GPG demand and low coal and VRE assumptions. 2. In regard to truncation, it has been clarified that this means that the supply of gas that would otherwise be offered at a price above the value APC is assumed not to be available to the market. |

© **AEMO 2022** Page 7 of 35



| Submitter | Submission Details | AEMO Response |
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| | in the form of contracting effects, which could precipitate issues with physical gas flows. We expect these behaviours and potential market effects to also be explored. | |
| EUAA | We would suggest consideration of an expansion in Scenario 13 and a new scenario 14. The event description of Scenario 13 is - 'External events cause rapid rise in international commodity prices driving high prices in Australia coinciding with high gas demand.' starting from 2026. That external shock is happening now so it should start now. Do not understand why it is assumed electricity prices are uncapped. It could consider an option where industrial demand collapses A suggested Scenario 14 would cover the situation where AEMO exercises its direction powers as the 'event' with that happening from Winter 2022. | Noted. Please see section 2.3.5. AEMO does have direction powers in the DWGM and these are for responding to Threats to System Security in the Victorian DTS. The proposed AEMO direction powers are still under development. Therefore they have not been incorporated into the Review methodology. |
| Shell Energy | A key market development predicted by AEMO's Integrated System Plan step change scenario is the rapid retirement of coal fired generation within this decade. Shell Energy expects this to result in increased periods of high gas demand as a result of increased reliance on dispatchable gas powered generation (GPG). For the period under examination by this review it will be important to ensure that the gas markets can operate efficiently with the removal of substantial coal fired plant from the electricity market. We therefore support the range of scenarios that incorporate high GPG demand early in the period to ensure that investment needs are tested in an appropriate timeframe. However, we do have some questions regarding scenarios 5A, 5B and 5C where demand is expected to exceed the 1:20 demand forecast for three consecutive days. We seek clarity to understand if such an outcome has occurred historically in any of the gas markets. We also note that in these scenarios the consultation document indicates that demand may also exceed normal | Noted. The methodology has been updated including: 1. Scenario 12 and 13 reflect high GPG demand and low coal and VRE assumptions. 2. Scenario 5 has been updated to reflect comments. 3. See section 5.2 which states there is no weighting to the scenarios: "The goal is to find those parameter settings which perform best in terms of minimising the reduction in market efficiency while maintaining acceptable risk. Effectively, we seek those combinations of gas market parameters that perform best across all scenarios." |

© **AEMO 2022** Page 8 of 35



| Submitter | Submission Details | AEMO Response |
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| | contract/hedge limits. Shell Energy's considers that the types of contracting used by participants should also be carefully considered and documented. In our view contracting types should not be limited to simple fixed volume gas contracts. | |
| | Another factor driving increased gas fired generation will be the intermittency of wind and solar resources. We support the examination of a scenario in which low variable renewable energy (VRE) output in the NEM drives demand for gas through dispatch of GPG. Due to the interconnected nature of the NEM and the reasonably high correlation of VRE output across the NEM this scenario is likely to apply across all gas markets simultaneously and should therefore be examined as an interlinked market scenario. | |
| | Shell Energy would also like to better understand the relative weighting of the scenarios outlined in the appendix. It is not clear what approach is being used to differentiate between the least likely market outcomes and the more central sets of assumptions that might be expected to eventuate more often in the period under examination. Further detail and discussion with stakeholders in this area would be helpful. | |

Question 3: Are there any artefacts of the modelling approach that need to be further considered or are causing concern?

| Submitter | Submission Details | AEMO Response |
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| AEC | It is difficult to comment on modelling artefacts without more detail on the modelling. The AEC would like to see more transparency with respect to the model | Noted. The report has had updates made throughout to provide additional detail. |
| Brickworks | We disagree with the inclusion of the below assumption on the basis that GPGs can source gas from the Gas Supply Hub or could fuel switch, and do not have to rely on the DWGM or STTMs to source gas: | Noted. |

© AEMO 2022 Page 9 of 35



| Submitter | Submission Details | AEMO Response |
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| | "APC should not be set so low as to exacerbate issues by having supply withdrawn from the gas market or creating bigger issues in other markets (e.g., due to APC being too low for GPGs to be able to source gas)." As per our comments for 2.4.7 and 2.5.1 above, AEMO should consider the need to raise a rule change request to change how the APC operates across the Gas Markets. | |
| CSR | The modelling approach should consider AEMO's powers and the likely scenario that interventions similar to 2022 will occur. Given the proposed expansion of AEMO's powers (contracting storage rule change and the broader regulatory package to increase AEMO's functions), these new powers should be included with appropriate assumptions. | Noted. Please see section 2.3.5. |
| EnergyAustralia | As noted above, all assumptions and modelling of contracting behaviour (e.g. as described in section 5.3) should be transparent and published alongside modelling outputs. It is not clear why the revenue adequacy of the LNG import terminal will be used to assess the lower bound of the CPT. An alternative approach would be to calculate returns accruing to the terminal as an output of the modelling of all price parameters, in a similar way to the assessment of acceptable total market risk exposure. Specifically, the MPC value is also relevant to investment returns and should be included in any revenue adequacy assessment. The discussion in section 2.3.5 suggests that market reforms are not critical given the scenarios are designed to trigger administered pricing. However, prospects of AEMO interventions (including those that might be imposed for winter 2023) have implications on investment needs to ensure secure supply, and also the business cases for such investment. | Noted. Please see updates to sections 5.9 and 6.6. |
| Shell Energy | The consultation paper identifies the importance of constructing appropriate GPG bids but provides little detail. We note that bids will have a maximum price linked to what would be viable in the | Noted. Please see updates to sections 5.6 and 5.9. |

© AEMO 2022 Page 10 of 35



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| Submitter | NEM but this highlights an important interaction that we don't believe has been sufficiently clarified by the modelling team. Are the NEM price levels assumed to be up to the NEM market price cap in all scenarios, or are assumptions made regarding the application of the NEM administered price cap? Is the treatment of NEM prices, and therefore GPG bids, different for different scenarios? Further detail on these questions and the assumed interaction between gas and electricity markets would be helpful for stakeholders seeking to better understand the modelling approach and potential outcomes. The level of contracting by participant type will be a crucial set of assumptions for the modelling. We understand that this information is constructed from historical bidding behaviours. We note the difficulty this approach poses in accurately reflecting the market conditions to be examined in each scenario, particularly where the exact circumstances may not have occurred previously and are therefore not reflected in the historical data. Additional information about the approach to contract level construction would be helpful for participants and stakeholders to help assess the modelling approach. We also note that the modelling holds contracting levels and potentially contracting types constant across all cases. This appears to be an inappropriate assumption given the historical responsiveness of participants to the market environment. The likely outcome from this approach is that the market settings are over-constrained due to the inflexibility of contracting between scenarios. We consider the set of participant types to be included in the modelling to be broadly appropriate. However, the contribution of each customer type and their relative influence on the modelling outcomes over time is not clear. For example the small market customer type is assumed by Market Reform to have a "less" | AEMO Response |

© **AEMO 2022** Page 11 of 35



| Submitter | Submission Details | AEMO Response |
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| | increasingly risky. This dynamic does not appear to be captured by the modelling approach. We consider this a shortcoming of the model and note that it would be very likely to play a role in modelling results that inappropriately shield participants from risk and under-incentivise investment in the industry. | |

Question 4: Do you agree that the cost of investment should be based on an LNG import terminal or some other option?

| Submitter | Submission Details | AEMO Response |
|-----------|---|--|
| AEC | The AEC agrees with an LNG import terminal being the marginal new entrant as it is the only way to introduce an external source of supply into the system in a relatively short period of time. The Consultation Paper appears to base its analysis on a proposed LNG import terminal at Port Kembla. There are critical aspects of this approach which are not discussed in the Consultation Paper including: - The assumed capacity factor noting that the next question in Consultation Paper states that it will be operated infrequently. - Will it be a merchant facility or will its cashflows be underpinned by contracts with market participants. Alternatively, a hybrid of the two. Whatever of these assumptions are applied will also influence some of the WACC parameters such as gearing, equity beta and credit spread. | Noted. Please see updates to sections 6.6. |
| CSR | It's not unreasonable to use an LNG import terminal based on the historical assumption. The limitation is that any type of high-cost investment is not likely to occur, and therefore it might be more appropriate to look at the level of sustained high prices and the potential for demand destruction in determining the cost of | Noted. |

© AEMO 2022 Page 12 of 35



| Submitter | Submission Details | AEMO Response |
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| | investment (i.e., it is likely that gas users will fuel switch or cease to operate). Prices are significantly higher, resulting in high levels of profits to gas producers, and these prices would normally be enough to bring additional gas to market if the regulatory environment allowed for it. | |
| EnergyAustralia | Assessment with respect to the LNG terminal seems reasonable. | Noted |
| EUAA | We doubt the use of an import LNG facility as a guide as we do not see it ever occurring. A number of our members have been approached to sign offtake deals with the Port Kembla LNG plant. None have been completed simply because the proposed price is uneconomic for our members. In the absence of some form of Government offtake guarantee LNG import projects will not proceed. | Noted. AEMO notes the majority of other submissions agreed that an LNG import terminal was appropriate. |
| Shell Energy | Shell Energy supports the use of an LNG import terminal as the most likely marginal investment to provide additional supply and address any potential supply shortfalls at peak demand times. We note that the consultation paper proposes assessing other income streams available to the facility as a contribution to its viability under various market parameters. It would be helpful for stakeholders to understand the value streams to be assessed and the assumptions to be made about their relative revenue contributions to the project being modelled. Shell Energy also notes that the selection of capacity factor allocated to the LNG import terminal will be a critical assumption with regards to recovery of capital, yet the modelling paper contains little in the way of detail regarding this. We consider this to be a significant shortcoming in the modelling and further detail and discussion with stakeholders in this area is warranted. Shell Energy supports the use of an LNG import terminal as the most likely marginal investment to provide additional supply and address any potential supply shortfalls at peak demand times. We note that the consultation paper proposes assessing other income | Noted. Please see updates to sections 6.6. |

© **AEMO 2022** Page 13 of 35



| Submitter | Submission Details | AEMO Response |
|-----------|---|---------------|
| | streams available to the facility as a contribution to its viability under various market parameters. It would be helpful for stakeholders to understand the value streams to be assessed and the assumptions to be made about their relative revenue contributions to the project being modelled. | |
| | Shell Energy also notes that the selection of capacity factor allocated to the LNG import terminal will be a critical assumption with regards to recovery of capital, yet the modelling paper contains little in the way of detail regarding this. We consider this to be a significant shortcoming in the modelling and further detail and discussion with stakeholders in this area is warranted. | |

Question 5: Are the investment costs and operating life reasonable estimates with respect to investment in an LNG receipt facility?

| Submitter | Submission Details | AEMO Response |
|------------|---|---|
| AEC | We are unsure on the operating costs. With respect to the life of the asset, the AEC considers a 20-25 year asset life would be more appropriate. With net zero by 2050 and plans by state governments and territories to progressively replace natural gas with electrification of households and businesses, investors may baulk at a 30-year life assumption for an LNG import terminal. | Noted. Please see updates to sections 6.6. |
| Brickworks | We strongly disagree that the assumptions reflect reality. Gas parameters do not influence LNG exporters supplying gas or developing new gas projects. Refer to our comments on this issue in our cover letter. | Noted. AEMO notes the majority of other submissions agreed that an LNG import terminal was appropriate. |
| | We strongly disagree with incorporating a possible LNG import terminal without a single consumer signed to the project into the modelling. The modelling should incorporate the cost of developing gas within Australia for domestic consumers. We suggest the proposed Santos Narrabri Gas Project or new QLD CSG projects (eg Senex has announced intentions to develop new projects) are | |

© AEMO 2022 Page 14 of 35



| Submitter | Submission Details | AEMO Response |
|-----------------|---|--|
| | the appropriate reference point for investment costs and long-term contract gas prices. | |
| EnergyAustralia | The use of published information seems to be a reasonable approach. Some sensitivities could be applied to project cost and expected operating life. To the extent the investment case is presumed to be made on the basis of forward contracting as well as spot revenue, any such assumptions should be made clear and justified | Noted. Please see updates to sections 6.6. |
| Shell Energy | The investment costs outlined in the consultation document appear to align with market expectations for such a project. However, the investment revenue assessment for an LNG import facility is proposed to consider 1 in 10 year events for return purposes. We note that this does not align to the high demand day assumptions in the scenarios being modelled. The 1 in 10 year assumption for events under an investment assessment should be aligned with the 1 in 20 assumption being used for high demand days in the modelling. The consultation document allocates an expected facility life of 30 years to the LNG import facility. We consider that the 30 year period is too long given the forecasts of future gas usage and consider that 20 years should be the maximum expected facility life. | Noted. Please see updates to sections 6.6. |

Question 6: Recognising that that the Investment Cost Data presented above must apply across a range of industries and participant types, the investment under consideration is anticipated to be used infrequently and primarily for the purpose of addressing transitory gas market events rather than long term re-equilibration, and investors will consider long term funding costs:

- Does the equity market risk premium for the sector (6.80%) represent a reasonable long term average?
- Does the combination of the risk-free rate (3.01%) and the debt margin (2%) adequately reflect the average cost of debt (5.0%) expected to apply over the project life?

© AEMO 2022 Page 15 of 35



• <u>Is the overall estimate of post-tax real WACC (4.72%) reasonable bearing in mind it is applicable to a facility anticipated to be used infrequently?</u>

| Submitter | Submission Details | AEMO Response |
|-----------|--|--|
| AEC | It is unclear why different types of participants and industries are mentioned in this question. When valuing an asset for the purposes it is to be used here, one would generally assume a stand-alone asset with a assumed credit rating based on the type and size of cashflows it generates relative to its costs. As an example, the AER regulates electricity networks on the assumption that they are stand-alone, 60 per cent geared business with the type (ie, regulated) and size of cash flows relative to its costs to result in a business that can sustain an investment grade BBB+ credit rating. Hence, the AEC considers it should be assumed to be a stand-alone asset. | Noted. Please see updates to sections 6.6. |
| | The AEC is of the view that: | |
| | The equity market risk premium should be 6 per cent. | |
| | The risk-free rate should be the prevailing yield on a 10-year Australian Government Bond (AGB), which is currently 3.79 per cent. | |
| | The credit spread to AGB (ie, debt margin) will be a function of the credit rating assumption of the facility, which in itself will be dependent on the business model of the plant alluded to in our response to Question 4 and the gearing assumption. The Consultation Report states a debt margin of 2 per cent but there is no mention of the credit rating of the assumed facility. If the credit rating is BBB- and the tenor of debt is 10 years, then as at 31 August the spread would have been 3.23 per cent.1 If the venture has a sub investment grade rating it will be significantly higher. | |
| | The equity beta needs to reflect the systemic risk of the business. An equity beta of one is the same as that of the market. Whether the plant is purely merchant, is underpinned by contracts or some mix of the two will determine the stability of its cash flows and hence influence its systemic risk (ie, equity beta). Consideration also | |

© **AEMO 2022** Page 16 of 35



| Submitter | Submission Details | AEMO Response |
|-----------------|--|--|
| | needs to be given to the gearing assumption and deleveraged beta and leveraged beta. | |
| | Other valuation metrics such as internal rate of return and EBITDA multiples for this type of asset should be considered as well as the proposed discounted cash flow analysis. Overall, the AEC would like to see much more rigor applied to the assessment of the financial (eg, WACC parameters) and business model of the LNG import terminal because the Consultation Report is seriously lacking in this respect. As with other aspects of the modelling, the AEC would like to see more transparency. | |
| EnergyAustralia | We support adoption of market-wide parameters from the AER's Rate of Return Instrument. The risk of asset stranding and declining utilisation, for example via electrification and longer-term emissions reductions targets, should be explored through sensitivities with higher investment hurdle rates and/ or a shorter economic life. | Noted |
| Shell Energy | Shell Energy's view is that the investment project being considered should be assessed as a standalone project. It is unclear therefore why the investment parameters need to apply across a range of industries and participant types. As a standalone project we would expect the equity risk premium and debt margin to be substantially higher given the risk profile of such a project. A post-tax real WACC of 4.72% is very closely aligned to the 4.7% proposed by Transgrid in its 2023-28 revenue proposal ¹ . We do not believe a commercially developed floating LNG terminal should be assessed on comparable cost of capital terms to regulated transmission investments. | Noted. Please see updates to sections 6.6. |

© AEMO 2022 Page 17 of 35

 $^{^{1}\} https://www.aer.gov.au/system/files/Transgrid\%20-\%202023-28\%20 Revenue\%20 Proposal\%20-\%2031\%20 Jan\%202022\%20-\%20 PUBLIC\%20-\%20 NEW.pdf$



Question 7: Do the range of grid points seem reasonable

| Submitter | Submission Details | AEMO Response |
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| Brickworks | The current grid of gas market parameters is biased towards only increases to the existing levels. The grid should include scenarios on decreasing the existing levels. Lower parameter values should be included, specifically: DWGM MPC \$200/GJ, \$300/GJ, \$400/GJ. We do not agree with \$800 or \$1000 being modelled. APC \$20/GJ, \$25/GJ, \$30/GJ, \$35/GJ We do not agree with \$60 or \$80 being modelled CPT each APC scenario x 35 intervals STTMs MPC \$200/GJ, \$300/GJ We do not agree with \$800 being modelled. APC \$20/GJ, \$25/GJ, \$30/GJ, \$35/GJ We do not agree with \$60 or \$80 being modelled CPT each APC scenario x 7 days | Noted. Please see updates to sections 6.7. |
| CSR | An aligned CPT should be considered, e.g., \$280 in the STTM with \$1400 in the DWGM (i.e., average price of \$40 across the time horizon). Given the lack of flexibility/diversity in contracting options, and limited ability to hedge against a supply interruption, it is appropriate to set the CPT at a lower level. Administered prices in excess of the proposed NEM administered pricing should not be considered given the distortion that can occur. The role of the maximum price in gas markets plays a role in how much risk a buyer of gas needs to manage, and high underlying prices would support investment for a producer of gas. Given this, lower maximum prices should be considered. | Noted. Please see updates to sections 6.7. |

© **AEMO 2022** Page 18 of 35



| Submitter | Submission Details | AEMO Response |
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| | It isn't necessary for gas price parameters to be aligned to the international markets, separate measures should be in place for this such as the ADGSM and GSG. | |
| EnergyAustralia | The paper indicates that MPC values will be determined as modelling inputs rather than as parameters of interest in the same way as the CPT and APC. Similarly, evaluation of the LNG import terminal investment case will be explored by reference to the CPT only. We question whether there should be an explicit consideration of the MPC by references to surveys or other data. For example, the gas MPC could be cross-checked against the values of customer reliability (VCR) estimated by the AER in electricity, or the NEM MPC. There may be further correlations in the maximum value of risk exposure used in the gas market, in terms of business customers' maximum willingness to pay or insolvency thresholds, where modelled events in gas or electricity markets cause similar spikes in energy input costs and hence profit impacts. | Noted. Please see updates to sections 6.7. |
| Shell Energy | Shell Energy supports a wide range of grid points being examined by the modelling. We note that under high international pricing conditions the upper bound for the APC may be close to the LNG netback cost in some circumstances. It may therefore be appropriate to examine an APC above the proposed upper bound to assess market risk and efficiency in unconstrained circumstances. Similarly, the \$1000 MPC level assessed in previous reviews may now be relevant despite being found "far from acceptable" in previous reviews. With regards to the values set out in Table 4, we note that it retains the inconsistency of values between the DWGM and the STTM. Shell Energy considers that the levels for the MPC and CPT between the various gas markets must be consistent and if a different calculation methodology is to be used for calculating the CPT in the DWGM, then the level of CPT for the DWGM must be consistent with the CPT proposed for the STTM. | Noted. Please see updates to sections 6.7. |

© **AEMO 2022** Page 19 of 35



| Submitter | Submission Details | AEMO Response |
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| | We also note that the granularity of the grid points to be examined is limited. To ensure that market efficiency can be maximised within appropriate risk bounds we suggest that granularity be increased. More appropriate settings could be: APC intervals of \$5/GJ across the proposed range, CPT intervals of \$100 and, MPC intervals of \$100 in both markets. | |
| | With regard to the NEM APC to be used, Shell Energy supports assessing the proposed \$500/MWh but notes that it may be necessary to undertake the modelling with a range of levels given the uncertainty in this parameter. A range of APC levels have been proposed under a NEM rule change which is currently being considered by the AEMC. Assessing a range of NEM APC levels from \$300/MWh to \$800/MWh would provide insight into the impact of the final determination and enable this review to respond to the outcome of the AEMC review. | |

General Comments

| Submitter | Submission Details | AEMO Response |
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| AEC - Align market parameters | The AEC believes that the market price settings for the DWGM and STTMs should be aligned. As recently demonstrated earlier this year, the lack of alignment between the markets created distortions in the east coast gas market. | Noted. |
| AER - Align market parameters | The AER notes that the current cumulative price threshold (CPT) setting is different across the STTM and the DWGM, respectively \$440/GJ across 7 days and \$1,400/GJ over 35 periods. This equates to an average price of approximately \$63/GJ to reach the CPT in the STTM in comparison to the lower \$40/GJ to reach the CPT in the DWGM. | |

© **AEMO 2022** Page 20 of 35



| Submitter | Submission Details | AEMO Response |
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| | The AER considers that the alignment of CPT settings across the STTM and the DWGM is required to reduce market inefficiency and improve spot market functionality during administered pricing periods. We support any changes to the relevant market parameters that are consistent with managing east coast supply and market risks for participants. Overall, the AER considers there is a strong case that the different price caps are likely to have led to an inefficient distribution of supply across the east coast over the period. | |
| Alinta – Align market parameters | Finally, Alinta Energy is concerned that the different price caps and operation of these across east coast gas markets (STTM and DWGM) can lead to inefficient market outcomes, as seen in the June 2022 market events where gas flowed out of the capped price markets to uncapped or higher price nodes. This has the potential to further exacerbate potential security of supply issues. Given this market inefficiency, Alinta Energy strongly considers that this review should ensure that the DWGM and STTM market parameters and price setting arrangements are sufficiently aligned to avoid these perverse outcomes. | |
| Origin - Align market parameters | Origin is strongly supportive of applying a modelling / assessment approach that explicitly considers interactions between the individual facilitated gas markets, and between each of those markets and the National Electricity Market (NEM). As identified in the Consultation Paper, administered pricing parameters have historically been set based on consideration of each market in isolation. The events of winter 2022, particularly in the Declared Wholesale Gas Market (DWGM), have highlighted the potential limitations with that approach and need for greater (relative) alignment across markets. To this end, we consider there is a risk that current administered price parameters in the DWGM may not support efficient market operations going forward given underlying changes in east coast energy market dynamics. | |

© **AEMO 2022** Page 21 of 35



| Submitter | Submission Details | AEMO Response |
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| | The progressive reduction of the DWGM CPT from \$3,700 in 2014 to \$1,400 (currently) is problematic in this respect. It has resulted in an increased likelihood of the DWGM entering an administered pricing period relative to the STTM (i.e. an average price of \$40/GJ will breach the DWGM CPT, compared with \$63 in the STTM). Should this occur at a time when prevailing prices in the STTM and / or NEM are high, incentives for market participants to supply the DWGM are likely to be reduced. | |
| SnowyHydro – Align market parameters | AEMO's decision to conduct a review of market parameter settings in both the Short Term Trading Market (STTM) and the Declared Wholesale Gas Market (DWGM) is critical. Alignment across markets is important for the operation of the east coast gas market. | |
| AEC – Single review process for NEM, DWGM and STTM. | Due to the linkages between gas and electricity markets consideration should be given to moving responsibility for gas market parameter reviews to the AEMC's Reliability Panel. The Reliability Panel could also look to establishing a reliability standard for gas because without a standard it is difficult to determine the trade-offs between reliability, risk and cost. | Noted. |
| AFMA – Single review process for NEM, DWGM and STTM. | AFMA considers AEMO should coordinate its review with the AEMC's work on the electricity APC rule change and any rule changes coming out of the Reliability Panel's Final Report. Additionally, we suggest AEMO should initiate discussions with policy makers to develop a mechanism to allow future reviews to be conducted in a single process covering all markets. | |
| Alinta – Single review process for NEM, DWGM and STTM. | Over the longer term, Alinta Energy considers that regulatory change is required to vest the review of electricity and gas market parameters in one market body to: • better coordinate the timing of each review, • ensure alignment of inputs and assumptions, and • provide for robust consultation processes. | |

© **AEMO 2022** Page 22 of 35



| Submitter | Submission Details | AEMO Response |
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| | This reform is necessary to ensure both the national gas objective and the national electricity objective can be met at least cost to consumers. | |
| EnergyAustralia – Single review process for NEM, DWGM and STTM. | AEMO's scheduled review of gas market pricing parameters is timely in the wake of recent administered price events across east coast gas and electricity markets. These events have highlighted important interactions across the STTM, DWGM and NEM and hence the need to consider price parameters across all markets in tandem. We therefore support cross-market alignment being one of the major areas to be explored in AEMO's review. | |
| | While outside of AEMO's responsibility, we question whether it remains appropriate for AEMO to conduct a separate review of gas market parameters, moreover after completion of the Reliability Panel's review for the NEM. With the Panel's recommendations for 2025-28 soon to be submitted as a rule change proposal, AEMO and the AEMC should liaise on their respective review timings and analyses, and ideally accommodate joint or at least mutually consistent recommendations. Since gas reflects a fuel source for electricity generation, gas price parameters (particularly the APC) should be reviewed and decided on first, and used as inputs to electricity price setting reviews, not vice versa as per the operation of rule 492 of the National Gas Rules. If AEMO finds a need to change gas price parameters before July 2025, this will materially impact the AEMC's intention to lift the electricity APC to \$600/MWh from as early as December 2022. | |
| Origin Energy – Single review process for NEM, DWGM and STTM. | Consideration should be given to providing a single body like the Reliability Panel with oversight of both electricity and gas market parameters. This is not to disparage the work of AEMO in undertaking parameter reviews to date. However, providing the Panel with oversight of both areas would enable a consolidated review to be undertaken, which would likely provide efficiency benefits and potentially allow for the interaction of settings across markets to be better considered. Where this isn't achieved, it would | |

© **AEMO 2022** Page 23 of 35



| Submitter | Submission Details | AEMO Response |
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| | still be prudent to consider the timing of the gas market parameter review, noting it may be preferable for the review to be undertaken ahead of the NEM Reliability Standard and Settings Review to the extent gas prices are a key input into the Panels assessment. | |
| Shell Energy – Single review process for NEM, DWGM and STTM. | Harmonising the market parameters and ensuring they remain effective in the context of a highly dynamic international energy market is a difficult task the we don't believe can be fully achieved by the current review. However, we are supportive of work towards this goal. Ultimately we believe that the market reliability (price) setting for the NEM and the market parameter settings of the DWGM and STTM need to be considered together under a robust consultation approach carried out by an independent body such as the Reliability Panel. This would ensure that market settings are cooptimised to maximise the benefits for consumers across the energy value chain. | |
| SnowHydro - Single review process for NEM, DWGM and STTM. | With the growing integration between gas and electricity it is important that AEMO's review aligns the market parameters between gas and electricity where the NEM should also be considered. The parameter review should recognise the current and growing relationship between the gas and electricity markets in Australia, The work currently being undertaken by the Reliability Panel for changes to the market settings post 2025 should be aligned with the gas market parameter review. | |
| AEC – Transparency in modelling | The AEC would like to see more transparency in regards to modelling. | Noted. See updates to Methodology document. |
| AER – CPT Calculation | The calculation of the CPT across all five schedules in the DWGM potentially introduces the possibility of gaming of the CPT. The AER has not identified this type of behaviour occurring over Winter 2022 when prices across all schedules were frequently \$800/GJ due to ongoing scarcity issues. | Noted. The calculation of the CPT threshold for the review is being done based on the current Procedures. |

© **AEMO 2022** Page 24 of 35



| Submitter | Submission Details | AEMO Response |
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| | Alternative approaches such as a volume weighted averaged traded price could be considered, noting that typically most trade occurs at the 6 am price. | AEMO considers this an issue for consideration of the Wholesale Market Administered Pricing Procedure consultation. |
| Shell Energy – CPT Calculation | In assessing the alignment between markets, we encourage AEMO to not only look at price levels but to consider how the settings are calculated and applied. For example, the use of more frequent pricing intervals in the CPT calculation for the DWGM allows for harmonisation of the CPT through variation in the calculation period based on the daily average price while keeping the CPT level fixed. Alternatively, the current calculation method could be retained whilst adjusting the CPT to reflect its use of the cumulative sum of five pricing outcomes. Whatever method is chosen there must be consistency between the market parameter setting across all of the gas markets. | AEMO notes the current approach in both the STTM and DWGM provide price protection for gas trades and for gas deviations (accounting for the difference in market design). |
| AFMA – Interrelated DWGM, STTM and NEM market outcomes | The events of May and June this year demonstrated the interrelatedness of the gas and electricity markets. This was shown in the gas market when gas flowed from markets where price caps were in place to markets without caps and other demand outside the regulated markets. In the NEM the interaction between gas and electricity price caps resulted in many gas generators being unable to run economically under the price caps and was a key contributor to AEMO's decision to suspend the NEM. AFMA therefore considers that it is critical to the success of both gas and electricity markets that the interaction between market parameters in all markets are considered holistically. | Noted |
| Alinta – Interrelated DWGM, STTM and NEM market outcomes | The recent, and impending, closure of coal fired generation capacity has driven a greater need for gas-fired generation in the NEM, particularly during periods of high electricity demand. As a result, electricity and gas markets are now more interrelated than ever. Therefore, it is essential to ensure that price settings are appropriately aligned across these markets. | Noted. |

© **AEMO 2022** Page 25 of 35



| Submitter | Submission Details | AEMO Response |
|--|--|---------------|
| | However, Alinta Energy is concerned that the draft consultation report does not sufficiently consider the interlinkage between gas and electricity. We therefore recommend AEMO, and its consultant undertake sufficient modelling and analysis ensure that the outworkings of this review don't lead to perverse or unanticipated outcomes and further electricity market dysfunction. | |
| Alinta – Support Review | Alinta Energy is broadly supportive of undertaking a review of gas market parameters and price setting arrangements in the STTM and DWGM. Collectively, these market settings play an important role in limiting financial risk for market participants while simultaneously allowing the market to send appropriate price signals to support orderly market operation and reliability of supply. It is therefore important they remain fit for purpose over time. | Noted |
| Brickworks – Gas Market Parameter Increases | The gas market parameters are critical settings that can directly impact consumer gas costs due to the potential to interact with forward contract prices. The gas market parameters also affect the financial price exposure of gas market participants. For these reasons, Brickworks strongly opposes any potential increase of any of the gas market parameters and does not believe that the current dysfunctional state of the east coast gas market can be modelled at this time. Attempts to model theoretical assumptions will not represent the real world because the supply/demand balance depends on LNG exporters supplying sufficient gas to avoid a potential gas supply shortfall under their commitment to the Federal Government under the Gas Heads of Agreement. As LNG exporters primarily supply balancing gas outside the Gas Markets, the gas supply/demand balance is unaffected by the gas market parameters. Similarly, the gas market parameters do not drive new gas supply projects. Long-term contract pricing currently supports new gas supply projects; however, significant regulatory red tape is unnecessarily delaying new gas supply projects commencing. In the context of the current east coast gas crisis, increasing any of the | Noted. |

© **AEMO 2022** Page 26 of 35



| Submitter | Submission Details | AEMO Response |
|---|---|---------------|
| | gas market parameters will only lead to increased costs to gas consumers for no benefit, as it simply does not drive a net increase in domestic gas supply. | |
| | Large gas consumer demand is sensitive to price and, as evidenced by the mass demand destruction currently occurring in Europe, gas demand will significantly decrease if extreme gas costs are passed through (either by direct spot market price exposure or from increased forward contract prices). Any modelling must consider that prices above the current APC would lead to significant gas demand destruction (possibly permanently). | |
| | As described in our cover letter, the APC has no impact on the net gas supply contribution to the Gas Markets. LNG exporters have made commitments to the Federal Government under the Heads of Agreement that they will supply the Gas Markets and the APC is irrelevant to new gas supply projects. The current gas supply crisis necessities a long-term solution to urgently develop new gas supply projects to supply the domestic market. | |
| | 500 days seems to be an artificial number that is not justified in the discussion paper. We suggest modelling include a range of loss profit days that are lower than 500 days, given the extreme market outcomes and the collapse of several small energy retailers during winter 2022. | |
| Brickworks – Infeasible to model gas markets | We do not believe any modelling can be conducted while the east coast is experiencing a gas crisis. The LNG exporters have made commitments to the Federal Government under the Heads of Agreement to supply gas to prevent a shortfall in the Gas Markets. While the current state of the market exists, the gas parameters do nothing to influence the overall gas supply/demand balance. Any market simulation is purely theoretical and does not represent real-world outcomes because the gas supply response does not occur as simplistically assumed in the methodology. The results of any of the proposed scenario modelling is meaningless. | Noted. |

© **AEMO 2022** Page 27 of 35



| Submitter | Submission Details | AEMO Response |
|--|--|---------------|
| | The modelling does not accurately reflect the potential for significant demand destruction of large gas consumers, and no attempt is proposed to source this information for large gas users under a range of contracted status scenarios (eg fully contracted to maximum load, contracted to average load, partially contracted, uncontracted). | |
| Brickworks – Market simulation | LNG exporters have made a commitment to the Federal Government under the Heads of Agreement to supply gas to Gas Markets to avoid any supply shortfall. Therefore, the export demand curve is irrelevant as including it in the modelling implies that the LNG exporters will not fulfil their domestic supply commitment. Further, all supply curves should assume that balancing gas to the Gas Markets is supplied by LNG exporters as per their supply commitment LNG imports should not be included in the modelling. There is not a single buyer currently signed to any proposed LNG import terminal. No export or import bids should be included in the modelling, as LNG exporters have commitment to supply the domestic gas for sufficient gas to avoid any potential gas shortfall. | Noted. |
| Brickworks - Representative market participants | The inclusion of GPG should also consider their ability to fuel switch to alternate fuels during a short-term gas shortfall scenario. Industrial users exposed to extreme market prices should be assumed to voluntarily curtail demand or fuel switch as an economically rational response to avoid incurring extreme business losses. | Noted |
| Brickworks – Sensitivity Analysis | Given that LNG exporters have committed to the Federal Government to supply sufficient gas to the domestic market to avoid any potential shortfall, a reduction in the supply curve will not occur because domestic supply from LNG exporters will increase to offset any reduction by a domestic gas producer. The proposed reduced supply curve scenario should not be considered. | Noted |

© **AEMO 2022** Page 28 of 35



| Submitter | Submission Details | AEMO Response |
|---|--|---------------|
| Brickworks – Calculating Market Efficiency | Further clarification on this logic needs to be provided by AEMO, specifically the interaction AEMO is assuming between a contract price and the market price. Market participants are only exposed to high spot prices to the extent that their injections are lower than their withdrawals. Where injections are equal to withdrawals, the market participant is indifferent to spot price outcome. Where injections are higher than withdrawals, the market participant favours high spot prices to the extent that they have market power to achieve this outcome. If the market participant is a large consumer, they can voluntarily curtail their demand or fuel switch to physically manage exposure to extreme spot price outcomes. | Noted |
| CSR – Market Price Caps | The market price caps are already at levels that are well above efficient levels, and other external factors are key reasons restricting investment. The reduced gas supply available to the market (not a reluctance of buyers to purchase) further increases the risk to buyers as they are forced to be exposed to higher spot prices. | Noted. |
| CSR – Adverse flows during an administered market period | At times of stress in the domestic gas markets, more focus must be on ensuring that gas is made available and additional pressure is not placed on these markets. To the extent that unrealistic volumes can be sourced from the domestic markets this reflects a flaw in the design and highlights the mechanisms aren't working. Gas sold outside of the STTM and DWGM is not at a capped price, meaning there can be incentives to purchase gas from an administered market to sell to counterparties willing to pay more for it. While these types of shortcomings of the current arrangements might be beyond the scope of the parameter review, they should be highlighted by the review for further consideration. The role of administered prices should not just consider the efficiency of market outcomes. Energy markets are heavily regulated given the important strategic role they play in supporting the domestic economy. Broadly speaking, the gas markets are mechanisms that allow competition to exist for the benefit of | Noted. |

© **AEMO 2022** Page 29 of 35



| Submitter | Submission Details | AEMO Response |
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| | consumers. These markets have been distorted due to the impact of linkages to international markets, where the domestic market now represents a relatively small proportion of the gas supply. | |
| CSR – Additional items for consideration. | There are some elements of the parameter review that can assist in addressing the current shortcomings to limit distortions in the regulated markets: • The Gas Supply Hub should be in scope of the review; • Lower price points for the MPC, APC and CPT should all be considered; • Alignment of administered states and CPT triggers. Separate to this review additional measures are required, and this review has an opportunity to highlight some of the potential measures that require further assessment. | Noted. |
| EnergyAustralia – Support Review | The discussion of recent events and scope of scenarios to be modelled is appropriately focused on testing and resolving any inconsistencies between gas markets, and with the NEM. | Noted |
| EnergyAustralia – New AEMO direction powers | The more recent proposals by energy ministers to extend AEMO's intervention powers in the east coast gas market, to identify and address threats to reliability and security, will also have interactions with the calibration of pricing parameters. The proposed powers to be implemented by winter 2023 create de facto reliability standards and market price caps, stemming from AEMO's risk tolerances and actions to address supply threats. Ministers propose that some of these aspects be formalised through eventual rule changes to be consulted on from 2023. Any process for jointly considering new gas reliability frameworks and revisiting price settings needs to be clarified and communicated to stakeholders, given the long lead times associated with contract positions and related market impacts. | Noted. Please see section 2.3.5. AEMO does have direction powers in the DWGM and these are for responding to Threats to System Security in the Victorian DTS. The proposed AEMO direction powers are still under development. Therefore they have not been incorporated into the Review methodology. |

© **AEMO 2022** Page 30 of 35



| Submitter | Submission Details | AEMO Response |
|----------------------------------|--|---------------|
| EUAA – new AEMO direction powers | The Report refers to these at p.20, though it was prepared prior to the release of details of the proposed changes2. After mentioning a couple of AEMC changes, the Report says that: "We have not identified any need to specifically account for these changes in the gas parameter review which focuses on market clearing prices." We would submit that the detail of the proposed AEMO powers around directions means that it could have significant impacts on the various parameter settings. AEMO is to have wide ranging powers that enable it, in the absence of market action, to direct the market in any way it thinks is required to ensure gas system reliability and supply security. This suggests this review should consider what the exercise of these powers might have on the setting of the parameters. For example, given AEMO's directions powers, what is the NGO benefit of setting the APC at any level above the price at which most producers cover their short run cost. This is the methodology used by the AEMC in its decision on the Alinta rule change – what electricity APC means that most gas generators cover their gas costs at \$40/GJ. It seems perverse that the APC would be set at a level where producers (which in practice would be dominated by LNG producers given the rundown in Bass Strait production) would supply the domestic market rather than the LNG spot market ie some estimate of the forward LNG netback price given the APC 'acts to limit the financial risk of consumer' (p.36)? If the market does not respond to an AEMO efforts to produce a market response, then AEMO simply directs producers to supply at an APC that covers their short run cost. | |
| EUAA – Winter 2022 outcomes | Our membership covers most of the major electricity and gas users in the east coast gas market who all rely on reliable and competitively priced electricity and gas for their business sustainability. We are interested in the gas market parameters for their impact on both the gas and electricity markets, particularly as it played out during June. There the gas market parameters allowed | Noted. |

© **AEMO 2022** Page 31 of 35



| Submitter | Submission Details | AEMO Response |
|---|--|---------------|
| | a significant wealth transfer from electricity consumers to gas producers and this was cemented in the rules with the recently released AEMC's Draft Decision on the NEM APC. The timing for the review of the gas cap is unfortunately after the electricity APC, rather than before. | |
| EUAA – inefficient gas market | Our members have had firsthand experience of the dysfunctional east coast gas market that has been highlighted by many recent ACCC gas reports eg dramatically rising prices particularly in the last 12 months, lack of competition for supply, significant fall in the availability of supply from Bass Strait, various State government restrictions on new gas development and pipeline owners potentially exercising monopoly power. We are also well aware of the need to decarbonise the energy supply chains and the impact of polices like the Victorian Gas Substitution Roadmap. | Noted |
| EUAA – demand destruction | Only a few of our members are active in the spot gas markets because they cannot rely on its supply security and volatile pricing. The same uncompetitive behaviour by producers in the contract market also influences the spot market. We are concerned that the recent significant increase in prices driven by external events and the behaviour of producers during June, will lead to a rise in the level of the market parameters based on a modelling methodology that seems to assume a competitive gas market. The huge wealth transfer that occurred in June and July from consumers to producers will only increase and inevitably lead to demand destruction. | Noted. |
| EUAA – Uncompetitive East Coast Gas Markets. | Perhaps the most surprising aspect of the Report is the lack of discussion of the uncompetitive east coast gas market. The ACCC has been highlighting this in all of its Gas Market reports since 2015. For example, the latest (August 2022) concluded: Recent events across the east coast gas and electricity markets have shown the consequences of having insufficient gas supply to meet domestic demand and ineffective upstream competition. | Noted. |

© **AEMO 2022** Page 32 of 35



| Submitter | Submission Details | AEMO Response |
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| | Supply conditions are expected to deteriorate further in 2023, with a shortfall of 56 PJ now expected. This is expected to occur against the backdrop of a highly concentrated upstream market, with competition posing little constraint on the behaviour of producers. Ensuring there is sufficient supply in the east coast gas market both immediately, and over the longer term, is critically dependent on measures to improve competition and encourage the timely supply of gas. This is a result of a combination of factors – State Government policy restricting development of new gas sources which has supported the ability of existing producers to exercise market power. | |
| Origin Energy – Implementation of new Parameters | We understand the gas market parameters under review are intended to be applied from 1 July 2025. However, we are supportive of Market Reform considering the implications of parameters that could be applied from 1 July 2023, as requested by AEMO. Noting a process is underway to establish a temporary increase in the NEM APC to address an identified operational risk, it is prudent to explore whether equivalent changes are required to mitigate the risks identified above and reduce the need for any AEMO-led interventions. | Noted. AEMO notes NGR492(2) and NGR492(3) dictate the potential timing of the implementation of any new STTM Parameters resulting from the recommendation in this Review. |
| SnowyHydro – Implementation of new Parameters | AEMO's review of the market parameters is warranted. However, given the role of gas as an input fuel in the contracting strategies of gas-fired generators in the National Electricity Market (NEM) it is important that any changes in gas market parameters be implemented with sufficient lead time and remain in force for long enough to allow market participants to adjust their forward contracting strategies. Snowy Hydro therefore supports an implementation time of 1 July 2025 to allow adjustments to electricity market contracts. | |
| | The current gas price settings were taken into account by owners of gas-fired generators in their existing forward contract arrangements. The majority of those contracts extend up to 1 July | |

© **AEMO 2022** Page 33 of 35



| Submitter | Submission Details | AEMO Response |
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| | 2025. Should AEMO seek to implement changes any earlier, for example 1 July 2024 (i.e. while existing contracts remain on-foot) it will create unnecessary risks. Not only will it impair generators' ability to meet their forward contract obligations, reducing liquidity, it is likely to have an unintended consequence of creating price risk for consumers. It is for these reasons we do not support early implementation of any changes made to the market parameters. The current gas price settings were taken into account by owners of gas-fired generators in their existing forward contract arrangements. The majority of those contracts extend up to 1 July 2025. Should AEMO seek to implement changes any earlier, for example 1 July 2024 (i.e. while existing contracts remain on-foot) it will create unnecessary risks. Not only will it impair generators' ability to meet their forward contract obligations, reducing liquidity, it is likely to have an unintended consequence of creating price risk for consumers. It is for these reasons we do not support early | |
| AFMA – STTM administered settlement and scheduling states | The May and June market disruptions gave the market a demonstration of how the administered states operated in the various gas markets. This included the first application of an administered settlement and scheduling states in the STTM following a major ROLR event in Sydney. AFMA recommends that this review should consider the experience of different administered states applying across the gas markets. The different administered states meant that the market parameters (particularly APC) applied differently between gas markets. This resulted in different pricing outcomes in the markets which complicated the supply of gas and ultimately led to government intervention in the Sydney STTM hub. Particularly AEMO should consider if it is necessary to have different administered states for minor and major ROLR events in the STTM. | Noted. This issue is outside of the scope of this review on Gas Market Parameters. AEMO notes that the STTM Procedures and the DWGM Wholesale Market Administered Pricing Procedures set the RoLR thresholds for minor and major events. The operation of STTM Administered Market States is determined by the NGR and any changes should be instigated via the AEMC's Rule change process. |

© **AEMO 2022** Page 34 of 35



| Submitter | Submission Details | AEMO Response |
|---|--|---------------|
| Origin Energy – Review of ROLR thresholds | While not the subject of this specific process, we recommend AEMO review the threshold used to distinguish between major and minor RoLR events; and the merit of applying the APC rather than a rolling average of recent prices where a major RoLR event is triggered. | |
| Shell Energy – Retailer of Last Resort | An important issue indirectly encompassed by the consultation is the disparate market outcomes following the triggering of retailer of last resort (RoLR) in one or more of the gas markets. Currently difference provisions apply between the different gas markets leading to inefficient market outcomes. Shell Energy supported AEMO reconsidering these outcomes. It is our view that consideration should be given to whether any specific provision should apply at all, noting that no provisions currently apply in the electricity market when a RoLR event occurs. | |
| | We note that changes to the provisions regarding RoLR event in the DWGM will require changes to AEMO's Wholesale Market Administered Pricing Procedures (Victoria) and as the market parameters form part of the Procedure, changes could be facilitated as part of this consultation. However, we note that changes in this area for the STTM will be subject to a rule change to Part 20 of the National Gas Rules to remove subclause 428(d), we consider that AEMO is best placed to commence consultation in the area with stakeholders and submit any rule changes arising from this consultation. | |

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