Consultation submission form



Tranche two regulations issues paper: Consultation submission form

This form is to be used to provide feedback on a series of questions included in the <u>Tranche two</u> <u>regulations to support the Electricity Infrastructure Roadmap Issues Paper (PDF 800KB)</u> to help inform the development of the regulations.

Please see the Electricity Infrastructure Roadmap webpage for more information.

Consultation questions

You do not need to answer every question. Please answer the questions of interest to you.

Chapter numbers indicate the location of questions in the Issues Paper.

Please make your submission by 5pm on Friday 21 May.

Confidentiality and submissions

Providing submissions is entirely voluntary, is not assessable, and does not in any way include, exclude, advance or diminish any entity from any future procurement or competitive process regarding the Electricity Infrastructure Roadmap, or any other NSW programs.

The NSW Government is committed to an open and transparent process, and all submissions will be made publicly available unless the stakeholder advises the Department not to publish all or part of its submission. Authors may elect for some or all of their submission to be kept confidential. If you wish for your submission to remain confidential please clearly state this in your submission.

Your details

Submission type	□ Individual	
	⊠ Organisation	
	☐ Other Click or tap here to enter text.	
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Stakeholder group	☐ Generation or storage infrastructure provider	
	☐ Electricity consumer or representative body	
	☐ Network infrastructure provider	



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⊠ Energy retailer
☐ Government or market institution
□ Individual
☐ Other (please specify)

Questions

Chapter 4 – Energy Security Target

Question 1:

Should the Energy Security Target Monitor define the method to determine the derating factor or should the method be defined in the regulations? If not by the derating factor, how else should the regulations address the probabilistic nature of semischeduled generators in the context of the deterministic Energy Security

Target?

Scaling factors and deterministic targets are not consistent with best practice for assessing and delivering reliability in the most affordable way, that best matches consumer preferences¹.

AEMO, in particular, has consistently moved from deterministic targets to probabilistic assessments of reliability and risk (e.g., no longer applying Minimum Reserve Levels, reliability assessed through AEMO's ESOO that uses hundreds of simulations, and short-term reliability risks assessed through AEMO's Forecast Uncertainty Measure, rather than just a simple N-1 or N-2 trigger). Networks are also moving from deterministic to probabilistic planning practises to optimise cost efficiency, utilisation and reliability of their network assets.

Similarly, deterministic firmness factors do not allow for emerging and innovative business models that use broad portfolios of firmness to deliver reliable supply. This is consistent with near-universal feedback from both industry and consumer groups that a capacity market is not fit for purpose for the emerging system.

We suggest instead that:

- Reliability is assessed through established processes, including AEMO's ESOO. The appropriate reliability standard should continue to be monitored and reviewed.
- Reliability is further managed through implementing an Operating Reserves framework, which would allow for a standing (but dynamic) reserve to be maintained. This quantity to be procured could be set at N-2 (i.e., the existing FCAS reserves *plus* sufficient reserves to meet N-2 (or FUM, whichever is greater) at all times).
- Critically, this real-time requirement would translate into an investment requirement to maintain sufficient reserves. AEMO's ESOO would identify any shortfalls, and could feed into the Trustee's processes.

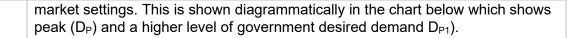
Most importantly, this facilitates addressing the actual problem: not all capacity but the capacity gap

Policy should only be implemented to provide incentives for the gap between the additional reliability desired by government and the reliability established through

¹ See for example, https://link.springer.com/chapter/10.1007/978-3-642-04282-9 5

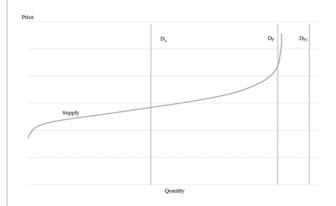


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Operating reserve or physical RRO on the quantify gaponly rewards the new supply or demand response to solve the problem

Capacity market rewards all generators unnecessarily



Question 2:

Should the regulations prescribe any other matters for inclusion in the Energy Security Target Monitor's report? If so, what are they?

Chapter 5 – Electricity Infrastructure Investment Safeguard

Question 3: To what extent are the requirements for carrying out competitive

tenders of

The proposed regulations include a requirement "to consider the long-term financial value of the tender participant's offer to consumers". However, *risk* to consumers should also be factored in when developing or evaluating LTESAs: the greater the derisking of investments, the more risk is transferred to consumers away from developers (who are best placed to reduce and manage the risk).

We suggest that the guidelines should include:



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Long Term
Energy
Service
agreements
appropriate?
Are there
any other
requirements
that should
be
considered?

"Incentivise offers that demonstrate a path to market for the energy, and reduce reliance on any underwriting through the LTESA". It is critical that governments focus on the three main shortcomings of Cfds in considering how to implement the LTESA framework.

- Government-initiated CfD auctions are typically based on simplified metrics such as minimising the levelized cost of energy (LCoE), which can introduce an inefficient pattern of plant entry. "In contrast, broadbased market schemes like the National Energy Guarantee or a welldesigned renewable portfolio standard require market participants to focus not on the LCoE, but on the timing, location, and market value of new plant output."
- They introduce quasi-market participants that are almost completely sheltered from the NEM's energy-only short and medium-run locational, spot and forward price signals.
- There is the potential to distort forward markets and market efficiency more generally. This is considered by far the most adverse implication.

Furthermore, it will be important to provide flexibility to the Consumer Trustee by allowing the purchase of non-electricity market instruments (e.g. LGCs) that facilitate new generation without resulting in the three poor public policy outcomes noted above and exposing the government to the very significant price risks associated with the NEM (a gross energy-only pool where prices can shift from -\$1,000 to \$15,000/MWh in 5 minute increments). These issues are more fully explored here:

https://ideas.repec.org/p/enp/wpaper/eprg1901.html

https://econpapers.repec.org/article/eeeecanpo/v 3a69 3ay 3a2021 3ai 3ac 3ap 3a544-556.htm

https://theconversation.com/australias-states-are-forging-ahead-with-ambitious-emissions-reductions-imagine-if-they-worked-together-160191

Question 4:

Do you agree with the matters the Consumer Trustee must take into account when preparing the Infrastructure Investment Objectives Report? Are

We support the proposed criteria, particularly the consideration of minimising risks and regrets to NSW consumers of over- or under-investment. We recommend the report also consider consistency with state emissions targets and national commitments under the Paris Agreement.

There is some risk that the two year gap between reports may not allow for a sufficiently rapid response if market conditions change, including effective utilisation of non-network alternatives (similar risks apply to AEMO's ISP publication). An annual report, or the ability to update if circumstances warrant, may be valuable.



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there any other matters that should be taken into account?			
Question 5: In what circumstance s should the Consumer Trustee prefer long duration storage over firming infrastructure to meet the reliability standard?	Delivering 12 GW of new renewable generation by 2030, and then beyond, will require significant storage for an efficient grid. As such, we would recommend that firming technologies should meet the following key criteria: firming must be capable of being adapted to provide long duration energy storage. For example, new gas turbines must be capable of being run using 100% zero emissions alternative fuels (e.g. hydrogen).		
Chapter 6 – Classification of REZ network infrastructure			
Question 6: Are there any other consideration s that should be taken into account in classifying REZ network	When REZ network infrastructure requires an upgrade to the existing shared network, it may be more appropriate to implement this as an upgrade of the existing network (and implemented through a RIT-T with costs recovered through DUOS). As noted through the AEMC COGATI consultation, distinguishing the incremental access introduced through new non-radial upgrades is challenging, and risks granting firm rights to new generators of an existing network that has been paid for by consumers. It is very challenging to "unscramble the egg" of the NEM's meshed network.		
infrastructure in regulations,	If private investment in new transmission / dedicated connection assets is made inside a REZ, clear frameworks should be developed for how any centralised upgrades would be managed.		
including the need for, and scope of, sub-classification s?	We also note that where possible the Government should make new network developments contestable, to reduce costs to consumers and drive innovative new solutions.		
Question 7: What types of network infrastructure could be subject to economic regulation under Part 5			



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Commission

of the EII Act?				
Supporting information				
If you have additional information you would like to provide to support your views, please provide it here.	Click or tap here to enter text.			
If you have additional documents to provide to support your views, please email it with your submission.				
Confidentiality and sul	bmission publication prefere	ences		
Please indicate your publication pre	ferences.			
Would you like all or part of your submission to be confidential? If so, please identify the part(s) in your submission		☐ Yes ⊠ No		
For confidential submissions: Some confidential submissions may be shared with the Australian Energy Market Operator, Australian Energy Market Commission, Australian Energy Regulator, the Energy Security Board, TransGrid, the Clean Energy Finance Corporation, Australian Renewable Energy Agency, Essential Energy, Endeavour Energy and/or Ausgrid to better understand and respond to issues raised.				
Would you like your submission to be	kept confidential from these parties?			
If your submission is published, only your name and organisation would be published. ☐ Yes ☐ Ye				
The Department will redact personal details from submissions made by individuals to protect personal information. In the absence of an explicit declaration to the contrary, the Department will assume that information provided by respondents is not considered intellectual property of the respondent.				
The Department may disclose confi	dential information provided by you to the follow	wing parties:		
The NSW Minister for Energy and Environment or Minister's office				
The NSW Ombudsman, Audit Office of NSW or as may be otherwise required for auditing purposes or Parliamentary accountability				
Directly relevant departmental staff, consultants and advisors				
 The Australian Energy Market Operator, Energy Security Board, Australian Energy Market Commission, Australian Energy Regulator, or the Australian Competition & Consumer 				



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- TransGrid, the Clean Energy Finance Corporation or the Australian Renewable Energy Agency or distribution network service providers
- Other parties where authorised or required by law to be disclosed.

Where the Department discloses this information to any of these parties, it will inform them that the information is strictly confidential.

The Department may publish or reference aggregated findings from the consultation process in an anonymised way that does not disclose confidential information.

We may be required to release the information in your submission in some circumstances, such as under the *Government Information (Public Access) Act 2009*.

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