Stakeholder Comment Matrix



Designing Alberta's Capacity Market stakeholder sessions held January 12 and 16, 2017

Date of Request for Comment: February 10, 2017

Period of Comment: January 17, 2017 through February 10, 2017

Comments From: Nexen Energy ULC

Date [yyyy/mm/dd]: February 10, 2017

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To initiate stakeholder consultation on the capacity market design, the AESO hosted kick-off stakeholder sessions in Calgary and Edmonton on January 12 and 16, 2017. At these sessions the AESO presented a brief description about capacity markets, described our vision of the desired end state, proposed an approach to undertaking the design and a potential roadmap for completing the work. In addition, the AESO presented an approach to consultation, as well as a set of proposed criteria and assumptions to be used as tools to guide the capacity market design.

The presentation can be found here.

We request your feedback about these topics as well as any others that you believe are appropriate for the AESO to consider. We expect a great deal of feedback based on the level of interest demonstrated by stakeholders at the sessions, and request you use this structured template to provide your comments. This will allow the AESO to quickly synthesize and publish the feedback from a broad range of interested parties.

All stakeholder comments received will be reviewed by the AESO and posted on the AESO website.



Capacity Market Design Approach

Please indicate in your response whether you support the planned design approach, or if not, why?

Section	Approach	Stakeholder Response
Proposed desired end state of capacity market development Slide 7	Do you support the following statement regarding the desired end state for the capacity market? Do you disagree with the statement or have alternative wording? Please provide reasons for your response. "The desired end state is to develop a capacity market that utilizes competitive market forces, ensures continued supply adequacy and reliability at a reasonable cost and is flexible to reflect the unique aspects of Alberta's electricity industry."	The statement is a good end goal. Nexen would add our belief that reasonable cost is an outcome of a fair open competitive market. Enabling a fair open and competitive market should be the goal, not putting artificial constraints to manage to "reasonable" outcome. We would also add that flexibility needs to be factored into the initial design, but that from an investor perspective, stability should also be a goal. Having a market that changes regularly do to its "flexibility" or that invites policy manipulation will not be good for investors.
Key design questions for capacity market development Slides 8 – 11	Is the preliminary list of key design questions an inclusive list? Is it clear what area of capacity market development each question is intending to address? What clarification is required on any of these items? What additional questions or areas, if any, do you think should be added to the list to ensure a comprehensive capacity market design? Please provide as much detail as possible.	These are good questions and will require much thought to guide ourselves to a good outcome for Alberta. One area that appears to be missing is that of market governance. A question to be added would be; what form of independent, transparent market oversight should be developed? Market power was discussed at the AESO education session, but seems to be absent from any of the design questions. This could be a separate
	 How much capacity needs to be procured? (Resource adequacy requirement) Who will buy the capacity? (Obligation to procure) When and how often will capacity be purchased? (Procurement timing and frequency) How long will the capacity delivery period be? (Term) Who can provide capacity? How much can they provide? (Eligibility) 	question or fit in to market design, but we feel that it should be explicitly addressed. Answering these question will require us to consider the inter dependancies that exist between the answer. We need to be aware of the need to recycle and consider the sum of the parts.



Section	Approach	Stakeholder Response
	 How do we know that capacity has been provided? (Performance assessments) 	
	- How will the capacity market work? (Market mechanics)	
	 How will capacity providers be paid? How will capacity costs be allocated? (Capacity market settlement) 	
	 How will the capacity market impact the energy and ancillary services markets? (Inter-operability implications) 	
Design dependencies and sequencing	What additional information do you require regarding sequencing? Do you agree with dependencies between design elements and the proposed sequencing of the	
Slide 12	design? Is there an alternative sequencing that should be followed? Is there a different approach entirely that should be considered? Please provide reasons for your response.	
Capacity market development roadmap Slide 13	What additional questions or clarification do you have regarding the roadmap? Do you have any issues or concerns with the proposed roadmap for designing and implementing the capacity market? Are there items or considerations missing from the roadmap?	In the balancing act of getting it right and doing it quickly to get to investor certainty Nexen recommends taking time to get it right as rushing to an answer that requires adjustments will be counter productive to providing investor certainty. We believe getting it right in the design stage should be the goal.
AESO Consultation Principles Slide 15	Do you have any questions regarding the AESO's consultation principles as they pertain to development of the capacity market? Are there additional concepts or principles which should be considered? Please provide reasons for your response.	Nexen supports the highlighted principles and we would agree that an open and transparent process should be considered mandatory. One suggestion on the "informing stakeholders" component would be to develop a email subscription list whereby information could be pushed to interested parties rather than them having to check the AESO website for information.



Section	Approach	Stakeholder Response
Proposed approach to answering key	What clarification or additional information do you require regarding the proposed approach?	It is unclear to Nexen what the two stages of the stakeholder engagement model is. Please clarify.
design questions Slides 16 – 17	Do you support the two-stage iterative process proposed for the capacity market design?	As mentioned earlier, timeliness must be balanced with due process and getting it right.
	Do you agree this process will deliver an inclusive, timely, efficient, cohesive and comprehensive design?	
	Do you think that the process will result in the expected benefits listed?	
	Are there modifications to this approach that would improve its effectiveness?	
	Is there an alternative consultation approach you would like us to consider and why? Please describe the alternative in as much detail as possible.	
Design Alternatives Sheets	Do you have any comments regarding the proposed purpose, structure or content for of the proposed design	
Slide 18	documentation?	
Term Sheets	Do you have any comments regarding the proposed purpose,	
Slide 19	structure or content for of the proposed design documentation?	
Design development	Do you have any questions regarding the proposed steps?	
steps	Do you support the proposed design development process?	
Slide 20	What should be considered before a design component moves to the stage of being drafted into legal language?	



Capacity Market Criteria

Please indicate in your response whether you support the following market criteria and provide reasons for your position.

Section	Subject	Stakeholder Response
Potential criteria for supply adequacy and reliability Slide 22	Do you support the following criteria regarding the supply adequacy and reliability category? Please explain. The capacity market should achieve desired reliability objectives by creating a real and measurable supply adequacy product.	Reliability objectives should not be solely focused on the consequences of too little supply adequacy. Too much supply adequacy has consequences as well.
Potential criteria for supply adequacy and reliability Slide 22	Do you support the following criteria regarding the supply adequacy and reliability category? Please explain. The capacity market should contribute to the reliable operation of the electricity grid and implementation should be consistent with, and complementary to, other measures aimed at ensuring reliability.	
Potential criteria for supply adequacy and reliability Slide 22	Are there additional criteria which should be included in this category?	
Potential criteria for the capacity market Slide 23	Do you support the following criteria regarding the market category? Please explain. The capacity market should be fair, efficient, and openly competitive.	Nexen completely supports this criteria. Focussing on getting this right will lead to reasonable cost outcomes without the need to "manage" a cost outcome.
Potential criteria for the capacity	Do you support the following criteria regarding the market category? Please explain.	Nexen completely supports this criteria. Focussing on getting this right will lead to reasonable cost outcomes without the need to "manage" a



Section	Subject	Stakeholder Response
market		cost outcome.
Slide 23	The procurement of capacity should employ market-based mechanisms and a competitive market for capacity should be developed.	
Potential criteria for the capacity market	Do you support the following criteria regarding the market category? Please explain.	Nexen agrees, but we remain uncertain about how a non dispatchable intermitant resource can compete in the same capacity market playing field as a dispatchable one. We are interested in seeing examples of
Slide 23	A wide variety of technologies should be able to compete to provide capacity.	how this could work from other jurisdictions.
Potential criteria for the capacity market	Do you support the following criteria regarding the market category? Please explain.	
Slide 23	Capacity market mechanisms, outcomes and relevant data should be transparent.	
Potential criteria for the capacity market	Do you support the following criteria regarding the market category? Please explain.	
Slide 23	There should be a well-defined product and an effective and efficient capacity price signal.	
Potential criteria for the capacity market	Are there additional criteria which should be included in this category?	
Slide 23		
Potential criteria for costs and risk	Do you support the following criteria regarding the costs and risks category? Please explain.	Nexen agrees with this criteria, but hightlight that for this to be fair that stability of the marketplace needs to be a criteria for success as well. If the playing field continually changes investors will lose confidence and
Slide 24	Long-term investment risks should continue to be largely borne by investors rather than consumers.	leave.



Section	Subject	Stakeholder Response
Potential criteria for costs and risk	Do you support the following criteria regarding the costs and risks category? Please explain.	
Slide 24	The capacity market should instil investor confidence and should result in private investment.	
Potential criteria for costs and risk	Do you support the following criteria regarding the costs and risks category? Please explain.	Nexen is unsure of what this means. Please add clarity to this criteria.
Slide 24	There should be an effective balance between capacity cost and supply adequacy.	
Potential criteria for costs and risk	Do you support the following criteria regarding the costs and risks category? Please explain.	New generation is built with a long term investment horizon. Nexen is uncertain as to wheter the goal of "short as possible" is the correct focus.
Slide 25	The term of the capacity obligation should be as short as possible while ensuring supply adequacy objectives are achieved.	
Potential criteria for costs and risk	Do you support the following criteria regarding the costs and risks category? Please explain.	As mentioned above Nexen supports fair open and competitive market based mechanisms.
Slide 25	Reasonable capacity costs for consumers should be achieved through effective competition and administratively determined prices should be avoided.	



Section	Subject	Stakeholder Response
Potential criteria for costs and risk Slide 24	Do you support the following criteria regarding the costs and risks category? Please explain. The design should provide mechanisms for consumers to hedge the cost of capacity if and where appropriate.	Nexen supports market based mechanisms.
Potential criteria for costs and risk	Are there additional criteria which should be included in this category?	
Slides 24 – 25		
Potential criteria for flexibility	Do you support the following criteria regarding the category of flexibility? Please explain.	
Slide 26	Unique aspects of Alberta's electricity system should be considered in the design of the capacity market (e.g. nature of load/generation, levels of cogeneration, limited interties, large geographic area, etc.).	
Potential criteria for flexibility Slide 26	Do you support the following criteria regarding the category of flexibility? Please explain. The capacity market should be compatible with other components of the electricity framework, and should be robust and adaptable to different government policy initiatives related to the electricity sector.	Nexen disagrees with this criteria. Opening the door to government intervention should not be the goal of a stable market place as it will erode investor confidence.
Potential criteria for flexibility	Are there additional criteria which should be included in this category?	
Slide 26		
Potential criteria	Do you support the following criteria regarding the timely	As mentioned above Nexen believes getting it right has more value and



Section	Subject	Stakeholder Response
for timely development	development category? Please explain.	adds more stability to investors than getting it done sooner. Nexen supports getting it right versus getting it in place for a strict timeline.
Slide 27	Market should be targeted to open in 2019 for start of first capacity procurement.	
Potential criteria for timely development	Do you support the following criteria regarding the timely development category? Please explain.	
Slide 27	The initial degree of change to the current energy and ancillary service market should be minimized.	
Potential criteria for timely development	Do you support the following criteria regarding the timely development category? Please explain.	
Slide 27	Simple and straightforward implementation should be a priority.	
Potential criteria for timely development	Do you support the following criteria regarding the timely development category? Please explain.	Nexen is unsure what a staged implementation means. We are interested in getting more clarity on this.
Slide 28	To the extent a staged implementation is pursued, the expected timing and nature of future changes should be provided.	
Potential criteria for timely development	Do you support the following criteria regarding the timely development category? Please explain.	Nexen completely agrees with this criteria.
Slide 28	The risks of regulatory delay and need for re-design should be minimized.	
Potential criteria for timely development	Do you support the following criteria regarding the timely development category? Please explain.	Nexen completely agrees with this criteria.
•	Best practices and lessons learned from other capacity market	



Section	Subject	Stakeholder Response
Slide 28	implementations should be leveraged as much as possible.	
Potential criteria for timely development	Are there additional criteria which should be included in this category?	
Slides 27 - 28		
General feedback regarding criteria	Are there additional categories of criteria which should be considered?	Nexen believes that some criteria should take precedence over others.
Slides 21 – 28	Do you require additional explanation or have questions regarding any of the categories or criteria? Do you think all criteria are equally important or should some take precedence over others?	



Capacity Market Assumptions

Please indicate in your response whether you support adopting the following starting assumptions and provide reasons for your position.

Item	Assumption	Stakeholder Response
	Do you support adopting the following assumption? Please explain.	
1 Slide 30	A capacity obligation is a forward physical obligation on capacity suppliers that requires the capacity sold in the capacity market to be available to provide energy when needed. This obligation is created when the supplier's offer is cleared in the capacity market.	
	Do you support adopting the following assumption? Please explain.	
Slide 30	All existing capacity "must offer" their eligible capacity to the capacity market. Planned capacity must offer for the delivery year they are connected.	
	Do you support adopting the following assumption? Please explain.	
Slide 30	The capacity market will be designed as a single zone with the capability of adding zones should it be required due to a change in transmission policy or other factors.	
4	Do you support adopting the following assumption? Please explain.	Nexen would add "with input from stakeholders" to the centrally determined
Slide 31	The resource adequacy requirement for Alberta will be centrally determined.	concept.
	Do you support adopting the following assumption? Please explain.	
5 Slide 31	The capacity market is intended to ensure supply adequacy. Other attributes such as carbon output, total capacity factor, ramp flexibility, energy production costs, etc., are not considered within the capacity market.	



Item	Assumption	Stakeholder Response
6	Do you support adopting the following assumption? Please explain.	
Slide 31	Capacity and energy/ancillary services are separate products, and are procured independently.	
7	Do you support adopting the following assumption? Please explain.	
Slide 32	Participants do not need to be successful in the capacity market to participate in the energy and ancillary service markets.	
	Do you support adopting the following assumption? Please explain.	
8 Slide 32	While receiving support payments, Renewable Electricity Program (REP) round 1 winners are not eligible to sell REP capacity in the capacity market owing to the Indexed REC payment mechanism chosen.	
	Do you support adopting the following assumption? Please explain.	The governance issue that Nexen raised on slides 8-11 needs to be addressed
9 Slide 32	Capacity market mechanics/behaviour will have regulatory oversight. Market outcomes will be the result of market clearing, unless otherwise demonstrated.	as part of this assumption.
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General	Are there additional assumptions which should be considered?	
feedback regarding assumpti	Do you require additional explanation or have questions regarding any of the assumptions?	



General Feedback

Please provide as much detail as possible in your responses below.

Section	Subject	Stakeholder Response
Next Steps Slides 33 – 34	Please provide any general feedback you have regarding the January 12/16 AESO presentation content or format.	
	Please provide any general feedback you have regarding formats for future materials or stakeholder sessions.	
Next Steps Slides 33 – 34	Please provide any feedback you have regarding next steps in the capacity market development process.	
Next Steps Slides 33 – 34	Assuming criteria, assumptions, key questions, sequencing and stakeholder approach are finalized, do you agree that next steps are to begin consultation on the first detailed design components? Do you agree that these items need to be resolved before detailed design components begin to be addressed? Other than the items listed above, do other topics need to be discussed or addressed, or other information provided, before detailed design discussions begin?	
General Information	Please provide any additional comments or information regarding topics which you think are relevant but have not been specifically addressed above.	