

Thursday, July 4, 2019 Date: Location: BP Centre, 240 4<sup>th</sup> Ave, Calgary Time: 9:00am to 1:30pm

#### **Discussion Materials**

Prior to the session, the following discussion materials were provided by email to TDAG members:

- Meeting agenda •
- Draft TDAG Meeting Notes May 9, 2019 •
- AESO response to TransAlta letter regarding cost allocation to exports •
- Proposed amendment to the TDAG Terms of Reference for the Implementation Working Group
- Presentations shared at the beginning of the meeting: Capacity Cost Allocation Analysis (CCAA) • WG Recommendations and Transmission Tariff (TT) WG Update

#### **Attendees**

Representative	Company or Organization	Present?	Alternate	Present?		
Demand rate payer representation						
	Residential, farm	and commercial of	consumers			
Richard Stout	UCA	Yes	Megan Gill	Teleconference		
Mark McGillivray	ENMAX	Yes	David Lenz	No		
Raj Retnanandan	CCA	Teleconference	Dustin Madsen	No		
Dan Levson	AFREA	Teleconference	Dave Butler	No		
	Indus	trial Consumers				
Vittoria Bellissimo	IPCAA	Yes	Richard Penn	No		
Grant Pellegrin	Cenovus	Yes	Horst Klinkenborg	No		
	Dem	and Response		•		
Colette Chekerda			No			
Surendra Singh	urendra Singh Alberta News Print Ye		Christian Lenci	No		
	Combined	Load and Genera	ition	•		
Dale Hildebrand	Dual Use Customers	Teleconference	Myles Fox	No		
Kris Aksomitis Cogeneration Working Group		Yes	Travis Tuchscherer	No		
Distribution Facility Owners						
Janene Taylor	ENMAX Corporation	No	Tony Martino	Teleconference		
Leland Jernberg			Gerald Zurek	Teleconference		
Leland Jernberg         FortisAlberta         Yes         Gerald Zurek         Teleconference           Representatives-at-large						
Ed de Palezieux	Devon Energy	Yes	Rick Cowburn	Yes		
Bryan Krawchyshyn		Yes	Mark Thompson	No		
		interested parties				
		sion Facility Owne				
Hao Liu	AltaLink	Yes	Rob Senko	Teleconference		
	Generators	(includes renewa	bles)			
Colin Robb	Capital Power	Teleconference	Akira Yamamoto	Yes		
	En	ergy Storage				
Patricia Phillips	Energy Storage Canada	No	Steven Oldale	No		

**Alberta Electric System Operator** 

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Representative	Company or Organization	Present?	Alternate	Present?		
	Representative-at-large					
Tory Whiteside	Distributed Generation Working Group	Teleconference	Leonard Olien	No		
		AESO				
Doyle Sullivan	AESO	Yes				
LaRhonda Papworth	AESO	Yes				
John Martin	AESO	Yes				
Trushal Umrania	AESO	Yes				
Facilitator						
Matt Gray	AESO	Yes				
Karla Reesor	Moving Forward	Yes				

Guests: None

## Agenda

Time # min		Agenda Items	Presenter	
9:00 am – 9:15 am	<ul> <li>Introduction <ul> <li>Welcome</li> <li>Session overview</li> <li>Review and approval of meeting notes from May 9 session</li> <li>Update on action items</li> </ul> </li> </ul>		Karla Reesor, Facilitator	
9:15 am – 9:20 am	5 min Discussion item: Cost allocation to exports - TransAlta letter and AESO response Desired outcome: Determine TDAG direction on matter		Doyle Sullivan	
9:20 am – 9:35 am	15 min	<ul> <li>Discussion item: Implementation Working Group (IWG)         <ul> <li>Proposed amendment to TDAG Terms of Reference to establish IWG</li> </ul> </li> <li>Desired outcome: Determine TDAG direction on matter</li> </ul>	Doyle Sullivan	
9:35 am – 9:45 am 10 min 10 min 10 Q & A		LaRhonda Papworth		



Time	# min	Agenda Items	Presenter
9:45 am – 12:00 pm 135 min Q & A Overview. Topics includ Time blocks Weightings Rate Sheet - Terms and applie Customer impact ar Q & A		<ul> <li>Weightings</li> <li>Rate Sheet <ul> <li>Terms and applicability</li> </ul> </li> <li>Economic efficiency analysis</li> <li>Customer impact analysis</li> <li>Q &amp; A</li> </ul> <li>Mid-morning break to be determined during</li>	John Martin
12:00 pm – 12:30 pm	30 min	LUNCH	
12:30 pm - 1:15 pm45 minDiscussion Item: Capacity Cost Allocation Filing• Time blocks Desired outcome: Determine TDAG direction regarding a recommendation on this matter.		Roundtable	
1:15 pm – 2:00 pm 45 min		<ul> <li>Discussion Item: Capacity Cost Allocation Filing</li> <li>Weights         <ul> <li>Utilize sum of EUE to directly set weighting vs applying a multiplier</li> </ul> </li> <li>Desired Outcome: Determine TDAG direction regarding a recommendation on this matter.</li> </ul>	Roundtable
2:00 pm – 2:15 pm 15 min BREAK			
2:15 pm - 3:15 pm60 minDiscussion Item: Capacity Cost Allocation Filing – Other IssuesDesired Outcome: Determine TDAG direction regarding recommendations concerning other issues arising from discussion.		Roundtable	
3:15 pm – 3:30 pm	15 min	Review of conclusions, action items and next steps	Karla Reesor
3:30 pm		Meeting adjourned	



# **Meeting Notes**

Time	Item
9:00 am	<ol> <li>Introduction         <ul> <li>Meeting notes from May 9, 2019 were approved with minor editorial revisions</li> <li>Updates on Action Items are noted below</li> </ul> </li> </ol>
9:15 am	2. Discussion Item: Cost allocation to exports
	Doyle Sullivan provided an overview of the AESO's response to the TransAlta letter regarding cost allocation to exports. No further discussion from the TDAG.
9:25 am	3. Discussion Item: Implementation Working Group (IWG)
	Doyle Sullivan reviewed the proposed amendment to the TDAG Terms of Reference to establish the IWG. It was noted that the WG will consider the design aspects of the tariff as well as the implementation.
	AESO is working with DFO representatives to finalize the TOR.
	Action - All are invited to provide input on revised TOR related to IWG. Send comments by July 25, 2019 to tariffdesign@aeso.ca
	Comments included:
	<ul> <li>It might be helpful to note that the AESO will not be directing the DFOs and REAs on what should be done for tariff design</li> <li>There are concerns about time of use and want to make sure that TOR deals with the issue; concern is that it should remain a choice for the DFOs and REAs</li> <li>AESO noted that it intended to keep the TOR general to avoid precluding certain outcomes or actions</li> <li>Would like analysis showing that capacity is a reasonable cost for customers; might connect to communications</li> </ul>
	<ul> <li>Re: billing – how will the costs be recovered in rates? Will need to be considered by IWG</li> </ul>
	The size of the IWG will be larger than other WGs. There may be some variability of participants depending on the topic being discussed.
	Confirmed participants for the IWG include:
	<ul> <li>Leland Jernberg - FortisAlberta</li> <li>Janene Taylor - ENMAX</li> <li>Vittoria Bellissimo - IPCAA</li> <li>Mark McGillivray - ENMAX Corp</li> <li>Rick Cowburn - CWSAA</li> <li>Richard Stout - UCA</li> <li>Dan Levson - AFREA</li> </ul>
	Action – Any other nominations for the IWG should be sent to <u>tariffdesign@aeso.ca</u> by July 25, 2019. The AESO will name a Chair.
9:40 am	4. Information Item: Transmission Tariff WG Update
	LaRhonda Papworth (Chair) provided an update regarding work completed. AESO indicated that there are several qualified consultants who have expressed interest in performing the studies.



	Depending on availability of WG members, there may be one or two meetings over the summer. Other priorities have prevented the TTWG from making as much progress as initially anticipated.			
9:55 am	5. Information Item: Capacity Cost Allocation Filing Overview			
9.55 am	John Martin (Chair) provided an overview of the AESO's proposed application filing and addressed the following topics:			
	Time blocks			
	Weights			
	Economic efficiency analysis			
	Rate sheet applicability and time block volumes			
	The AESO is still working on customer impact analysis and it will be shared along with deferral account approach at the industry session on July 16, 2019. The AESO is planning to file the application on July 26, 2019.			
	Time Blocks:			
	<ul> <li>WG continues to recommend "Option K" time blocks from April 15</li> </ul>			
	• WG examined rates with shorter weekend time block: shorter weekend (light-weight) time block affected rates in multiple time blocks (weekday, weekend and overnight); shorter weekend time block did not improve hours having "reasonably similar" expected unserved energy in time blocks			
	Weights:			
	<ul> <li>WG recommends weights be based on net-CONE procurement volume</li> </ul>			
	Unserved energy at net-CONE volume continues to support time blocks			
	Unserved energy at net-CONE volume results in higher high-weight rate			
	Multiplier:			
	AESO plans to propose cost allocation with 1x multiplier for all time blocks			
	AESO's view is that a 1x multiplier for all time blocks results in reasonable prices			
	<ul> <li>Comments from participants included a concern that analysis conducted by AESO and WG mixes some historical data with broad future assumptions; alternative analysis may be needed with more narrow assumptions to provide a better stress test on the prices for different time blocks</li> </ul>			
	<ul> <li>It was also noted that the analysis should include the price volatility within the time periods; AESO does not plan to release the hourly mitigated pool price; another option may be to release the distribution of hours/pool prices</li> </ul>			
	<ul> <li>AESO's view is that a high-weight multiplier greater than 1x is not necessary; the 1x multiplier provides a sufficiently high price for loads to be responsive</li> </ul>			
	Rate Sheet ("Rate ACC" – Allocation of Capacity Market Costs)			
	<ul> <li>Rate ACC applies to system access service provided under DTS, FTS, DOS, XOS, XOM, as well as to the owner of an electric distribution system who pays charges to the ISO in accordance with the <i>Isolated Generating Units and Customer Choice Regulation</i></li> </ul>			
	• ISO must determine the energy in each time block in a settlement period, for each system access service provided under Rate DTS, as metered energy for the Rate DTS system access service plus electric energy supplied by a generating unit or aggregated generating facility that:			
	<ul> <li>Is not an isolated generating unit as defined in the Isolated Generating Units and Customer Choice Regulation;</li> </ul>			
	<ul> <li>Is connected to the electric distribution system at the Rate DTS point of delivery;</li> </ul>			



	and					
	<ul> <li>Has the electric energy it generates measured on an hourly basis through metering equipment approved for determining a charge under the <i>Electricity and</i> <i>Gas Inspection Act.</i></li> </ul>					
	Work remaining to be completed includes examination of impact on individual consumer bills, and estimate of deferral account magnitude arising from volume variances.					
11:15 am	6. Discussion Item: Time Blocks					
11.15 am	AESO Proposed Recommendation: "Option K" with 4 time blocks from April 15.					
	TDAG members were invited to provide their views on the proposed time blocks.					
	Comments included:					
	<ul> <li>Some parties prefer initial 3 time blocks rather than 4 if weights were adjusted within time blocks</li> </ul>					
	<ul> <li>Time blocks do not correlate with tight supply hours in which generating unit performance will be measured and may not maximize impact load load reduction could have during tight supply</li> </ul>					
	• A participant noted that to achieve consensus, AESO may need to hire expertise to create an integrated model with key assumptions; with current information, it is challenging for participants to assess impacts on their customers; AESO noted that consensus is typically more achievable when relying on historical data rather than forecasts					
	Conclusion: Some TDAG members are supportive of AESO's recommendation for 4 time blocks and other members prefer 3 time blocks.					
11:45 am	7. Discussion Item: Weights					
i i i i o aiii	AESO Proposed Recommendation: That weights be based on net-CONE procurement volume.					
	TDAG members were invited to provide their views on weights.					
	Comments included:					
	<ul> <li>Parties noted that they need additional time to consider implications</li> </ul>					
	<ul> <li>Net-CONE approach (combined with other AESO recommendations) will not create a strong enough price signal for loads to respond</li> </ul>					
	There may be a large impact on certain customer classes					
	Conclusion: When comparing the two options presented, most parties but not all prefer that weights be based on net-CONE procurement volumes.					
	AESO Proposed Recommendation: Cost allocation with 1x multiplier for all time blocks.					
	Comments included:					
	It is unknown how responsive load will be to fixed time blocks.					
	<ul> <li>AESO should keep in mind that some customers may now build more behind-the-fence generation; price-responsive loads may be driven off the grid</li> </ul>					
	<ul> <li>Have muted the value of the price-responsive loads</li> </ul>					
	<ul> <li>There will be a need to explore opportunity services or other options for the transmission tariff</li> </ul>					
	<ul> <li>Some parties indicated that AESO is taking a very simplistic approach to analysis of a complex matter; has resulted in some sectors concluding that capacity market will not work</li> </ul>					
	<ul> <li>Some parties indicated that AESO has made the best of a challenging situation with the constraints of the regulations; some parties struggle with assumptions made on price-</li> </ul>					



	reaponative load; would like to see more transporency on the accumptions in the bearing			
	responsive load; would like to see more transparency on the assumptions in the hearing			
	<ul> <li>Re: losses and allocation of losses – the AESO has not developed that part of the application yet</li> <li>There is some concern about unintended consequences; if customers end up leaving the system, it may be a bigger concern; the AESO may want to alert the AUC to that risk</li> </ul>			
	Conclusion: Some TDAG members support the 1x multiplier and others are seeking a higher multiplier for the high-weight hours.			
1:10pm	8. Meeting wrap up			
	Round table			
	The AESO should consider providing rationale for July 26 filing date			
	AESO encouraged parties to extend July 16 invitation to others			
	• Participants asked to have until July 18 to provide comments on the filing; AESO will confirm the deadline for comments when it circulates the comment matrix on July 5.			
	Karla Reesor reviewed the Action Items and the meeting adjourned at 1:20 pm.			

# Report on past action Items

#	AG Action Items	Action by	Due Date	Status		
Sessior	Session 10 – May 9, 2019					
Action Item 1	Share high level summaries of proposed studies with TDAG (TT WG)	LaRhonda Papworth	June 30	Will be shared prior to next TDAG meeting		
Action Item 2	Provide or confirm names of representatives for new DFO Working Group:	Dan Levson Leland Jernberg Janene Taylor Rick Cowburn Vittoria Bellissimo Mark McGillivray	May 16	Send proposed representative for each sector to <u>tariffdesign@aeso.ca</u>		
Action Item 3	Prepare scope for new DFO Working Group. Share scope and membership at TDAG meeting on June 5 if possible.	Trushal Umrania	May 31	Work with AESO, DFO reps and others as appropriate to finalize the TOR after receiving any further comments from parties (See Action Item 2 from July 4)		

### Action items assigned this session



#	AG Action Items	Action by	Due Date	Status
Sessior	n 11 – July 4, 2019			
Action Item 1	Provide input on revised TOR related to IWG.	TDAG members	July 25	Send comments to tariffdesign@aeso.com
Action Item 2	Provide additional nominations for the IWG. The AESO will name a Chair.	TDAG members	July 25	Send proposed representative to tariffdesign@aeso.ca

### **Report on Decision Items**

Session (S# + date)	(#)	AG Decision Items	
2018			
August 17		Advisory Group established	
S1- August 23	Decision Item 1	Advisory Group approved Terms of Reference with changes	
S2 – September 6	Decision Item 2	Advisory Group approved work plans with changes	
	Decision Item 3	Data Requirements Working Group struck	
S3 – October 4	Decision Item 4	Capacity Cost Allocation Analysis Working Group struck	
S4 – November 8	Decision Item 5	Cost Causation Working Group work struck	
S5 – December 5 Decision Item 6 Terms and Conditions Working G		Terms and Conditions Working Group struck	
	Decision Item 7	Data Requirements Working Group concluded	
	Decision Item 8	Transmission Tariff Design Working Group struck	
S7 – February 7, 2019	Decision Item 9	Approved plan for studies and data collection proposed by Tariff Design Working Group	
S-9 - April 15, 2019	Decision Item 10	CCAA WG recommendation of four time blocks accepted by TDAG	
S-9 April 15, 2019	Decision Item 11	Chair duties for TTWG assumed by LaRhonda Papworth	
S-10 May 9, 2019	Decision Item 12	DFO Rate Design and Implementation Working Group struck	