

Date: Thursday, May 9, 2019
Location: BP Centre, 240 4th Ave, Calgary

Time: 9:00am to 11:45am

Discussion Materials

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

- Meeting agenda
- Draft TDAG Meeting Notes April 15, 2019
- Presentations: Capacity Cost Allocation Analysis (CCAA) WG Update
- Targeted capacity cost allocation proposal and CCAA WG response

Attendees

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

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

Guests: None

Agenda

Time	# min	Agenda Items	Presenter
9:00 am – 9:30 am	15 min	Introduction <ul style="list-style-type: none"> Welcome Session overview Review and approval of meeting notes from April 15 session Action items Schedule update and next TDAG session 	Karla Reesor
9:30 am – 10:00 am	30 min	Information item: Capacity Cost Allocation Analysis WG Update <ul style="list-style-type: none"> Chair presentation 	John Martin
10:00 am – 10:15 am	15 min	Information item: Transmission Tariff WG Update <ul style="list-style-type: none"> Chair presentation 	LaRhonda Papworth
10:15 am – 10:30 am	15 min	Break	
10:30 am – 11:00 am	30 min	Information item: <ul style="list-style-type: none"> Update on Implementation 	Doyle Sullivan
11:20 am – 11:40 am	20 min	Member roundtable on process	Karla Reesor
11:40 am – 11:45 am	10 min	Review of conclusions, action items and next steps	Karla Reesor
		Session adjourned	

Meeting Notes

Time	Item
9:00 am	<p>1. Introductions and overview of session</p> <ul style="list-style-type: none"> • Meeting notes from April 15, 2019 were approved with no revisions • Action Item 2 from April 15 – Vittoria Bellissimo indicated that the preference from IPCAA members is to true-up deferral accounts monthly to keep the deferral amounts lower; it was acknowledged there would be a need to balance the cost to the AESO to do the true up more frequently with the benefits of keeping the deferral amounts lower • Schedule Update – Trushal Umrnia outlined the key milestones leading up to the AESO’s application filing at the end of June. Key dates for the TDAG include: <ul style="list-style-type: none"> ○ May 31 – materials (summary of main components of application including a rate sheet and draft Terms and Conditions) will be provided to TDAG ○ June 5 – TDAG discussion to clarify and share initial feedback on application materials ○ June 12 – Written comments from TDAG to AESO • TDAG members requested that a copy of the AESO comments matrix be provided with the May 31 materials so that participants have more time to complete it • A request was made to share the model used by the CCAA WG with the May 31 materials; AESO will share what they can on May 31 and remaining information will be provided with the application filing • Comments received will be posted on the AESO website and included in the AESO consultation record
	<p>2. Capacity Cost Allocation Analysis WG Update</p> <p>John Martin (Chair) provided an overview of the status of the WG deliverables.</p> <p>Discussion highlights:</p> <ul style="list-style-type: none"> • WG is reviewing time blocks and questions from the April 15 TDAG meeting • WG appreciated and reviewed a proposal submitted by CCA for a “Targeted Capacity Cost Allocation”; the WG considers that the dynamic price signal would not be compliant with the Capacity Market Regulation’s requirement for one rate for each time block and therefore does not support the proposal • AESO cannot see a scenario where scarcity pricing would not be in conflict with the current regulation • AESO will continue to discuss TDAG comments and concerns with DOE after each TDAG meeting • AESO’s position is that “corresponding to” is different from “equal to” and that adjustments to the weights must maintain a reasonable relationship or correlation with expected unserved energy; TDAG participants expressed alternate views • WG is continuing examination of “light-weight” weekend time block; still supporting four time blocks and looking at the boundaries in more detail; considering the distribution of unserved energy within the time blocks • A question was raised on whether shortfall would be a better indication of needs in those hours, rather than unserved energy; shortfall or tight supply is usually historical data and AESO has done some comparison between unserved energy and shortfalls; the challenge is to reconcile historical and forecast data; tight supply hours may be part of information

	<p>filed; the AESO noted that unserved energy and shortfall are generally seeking to capture the same concepts</p> <ul style="list-style-type: none"> Any changes to resource adequacy model (RAM) from AESO review (in Technical Conference report) or AUC direction will be assessed by the AESO as to whether the distribution of unserved energy would be materially impacted; if so, the AESO would evaluate options to re-examine time blocks and weights at that time WG is continuing to discuss criteria for assessing the cost allocation rate as described on slide 5 of the presentation; #1 principle is to align with Capacity Market Regulation and the WG relied on the AESO assessment of whether this criteria is satisfied; Bonbright principles were assessed as #2-#6; the WG did not reach consensus on whether the criteria of Appropriate price signals and Fairness, equity and minimization of inter-customer subsidies were satisfied WG will finalize review of time blocks and weights; will also consider aggregate impact of prices from capacity market cost allocation, energy, and transmission tariff to the extent possible There was discussion about whether a cost benefit analysis could be used to evaluate alternative approaches. It was noted that in order to conduct a cost benefit analysis, assumptions would need to be made about parameters, timing, etc. Evaluation of the costs and benefits will happen after the tariff is in place, however, some form of cost benefit analysis will likely be filed with the application. Inter-customer subsidies would be reviewed in a cost-benefit analysis: a key consideration could be to determine if different prices cause any class of consumers to be worse off. This analysis may need to be done with actual data, not on a forecast basis. The AESO noted that it will not be possible to implement a rate change where no one will be worse off, but can seek to “minimize inter-customer subsidies” consistent with principle #4; cost benefit analysis may be qualitative rather than quantitative; scenarios may help to understand a qualitative cost benefit analysis TDAG members were asked to send any further comments on cost benefit analysis approaches by email to tariffdesign@aeso.ca
	<p>3. Transmission Tariff WG Update</p> <p>LaRhonda Papworth (Chair) provided an update regarding work completed:</p> <p>Discussion highlights:</p> <ul style="list-style-type: none"> WG has received a lot of data and will be reviewing it; next meeting is on May 15 Workshop was held in April to learn more about how system upgrades are assessed Want to send out RFI soon to hire consultant who will look at how other industries have addressed challenges that AESO is facing now WG does not know yet what will be ready to share at June TDAG meeting Participants acknowledged the effectiveness of the process that is being followed to incorporate views of all parties
	<p>4. Update on Implementation</p> <p>Doyle Sullivan provided an update on the implementation schedule.</p> <p>Discussion highlights:</p> <ul style="list-style-type: none"> AESO had a meeting with all the DFOs; shared information on work of TDAG and heard questions and concerns from DFO perspective Questionnaire will be going out to all DFOs about timing and system changes DFOs have to design and then implement the billing systems Impacts on DFOs are dependent on the individual systems in each DFO

	<ul style="list-style-type: none"> • AUC plans to defer consultation Rules 4 and 21 until after AESO changes are identified; DFOs will be asking AUC to move ahead sooner so that DFOs know what will be required • DFOs typically wait until rates are approved before making system changes; DFOs may need some direction or pre-approval to allow recovery of costs of system changes prior to rate approval and they will discuss options with AUC • AESO wants to establish a new Working Group to support design and implementation of new capacity cost rates for DFOs; WG would include broader representation of DFOs (DFOs who are not currently on TDAG), retailers, consumers, industrials and REAs; AUC would also be included
11:45am	<p>5. Meeting wrap up</p> <p>Karla Reesor reviewed the Action Items and the meeting adjourned</p>

Report on past action items

#	AG Action Items	Action by	Due Date	Status
- Session 8, March 6, 2019				
Action Item 1 from S-6 (Jan)	Work with DFO reps to set scope for review of schedule implications	Trushal Umrana (AESO)	Feb 7	Deferred to DFO Working Group [NTD: See Item 3 from S-10 below]
Action Item 2 from S-7 (Feb)	TT WG (Hao Liu AML and Grant Pellegrin, Cenovus) will meet with Dan Levson (AFREA) to discuss aspects of data collection	Hao Liu, Grant Pellegrin	When available	Complete
Action Item 1 from S-9 (Apr)	Determine whether four blocks are manageable for DFO implementation	Janene Taylor	May 9	Deferred to DFO Working Group
Action Item 2 from S-9 (Apr)	Test magnitude of estimated deferral cost (5% or less) and quarterly rate adjustment (true-up) schedule with IPCAA members	Vittoria Bellissimo	May 9	Complete
Action Item 3 from S-9 (Apr)	Follow up with Ed de Palezieux regarding comment about the AESO and generator outages	Matt Gray	May 9	Complete
Action Item 4 from S-9 (Apr)	Develop proposal for AUC meeting regarding implementation and expectations for AUC approval of DFO tariffs as they relate to the new ISO tariff; present outline to TDAG	Doyle	May 9	Deferred to DFO Working Group

Action items assigned this session

#	AG Action Items	Action by	Due Date	Status
Session 10 – May 9, 2019				
Action Item 1	Share high level summaries of proposed studies with TDAG (TT WG)	LaRhonda Papworth	June 30	
Action Item 2	Provide or confirm names of representatives for new DFO Working Group: <ul style="list-style-type: none"> • REAs • DFOs (including Municipalities) • Consumers • Industrials • Retailers 	Dan Levson Leland Jernberg Janene Taylor Rick Cowburn Vittoria Bellissimo Mark McGillivray	May 16	Send proposed representative for each sector to tariffdesign@aeso.ca
Action Item 3	Prepare scope for new DFO Working Group. Share scope and membership at TDAG meeting on June 5 if possible.	Trushal Umrana	May 31	Work with AESO, DFO reps and others as appropriate

Report on Decision Items

Session (S# + date)	(#)	AG Decision Items
2018		
August 17		<i>Advisory Group established</i>
S1- August 23	Decision Item 1	<i>Advisory Group approved Terms of Reference with changes</i>
S2 – September 6	Decision Item 2	<i>Advisory Group approved work plans with changes</i>
	Decision Item 3	<i>Data Requirements Working Group struck</i>
S3 – October 4	Decision Item 4	<i>Capacity Cost Allocation Analysis Working Group struck</i>
S4 – November 8	Decision Item 5	<i>Cost Causation Working Group work struck</i>
S5 – December 5	Decision Item 6	<i>Terms and Conditions Working Group struck</i>
	Decision Item 7	<i>Data Requirements Working Group concluded</i>
	Decision Item 8	<i>Transmission Tariff Design Working Group struck</i>
S7 – February 7, 2019	Decision Item 9	<i>Approved plan for studies and data collection proposed by</i>

Session (S# + date)	#	AG Decision Items
		<i>Tariff Design Working Group</i>
S-9 - April 15, 2019	Decision Item 10	<i>CCAA WG recommendation of four time blocks accepted by TDAG</i>
S-9 April 15, 2019	Decision Item 11	<i>Chair duties for TTWG assumed by LaRhonda Papworth</i>
S-10 May 9, 2019	Decision Item 12	<i>DFO Rate Design and Implementation Working Group struck</i>