# **Tariff Design Advisory Group**

# Session 8 - Summary



March 6, 2019, 9:00 am to 1:45 pm, AESO Offices

#### **Pre-Meeting Materials**

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

- Meeting Agenda
- Draft TDAG Meeting Notes from February 7, 2019

Presentations and Information Items:

- Capacity Cost Allocation Analysis (CCAA) WG Update
- Capacity Cost Allocation Terms and Conditions (CCA TC) WG Update
- Transmission Tariff (TT) WG Update

#### Attendees

| Representative               | Company or Organization          | Present?        | Alternate          | Present? |  |
|------------------------------|----------------------------------|-----------------|--------------------|----------|--|
|                              | Demand rate payer representation |                 |                    |          |  |
|                              | Residential, farm and            |                 |                    |          |  |
| Richard Stout                | UCA                              | Telecon         | Megan Gill         |          |  |
| Mark McGillivray             | ENMAX                            | Yes             | David Lenz         |          |  |
| Raj Retnanandan              | CCA                              | Yes             | Dustin Madsen      |          |  |
| Dan Levson                   | AFREA                            | Yes             | Dave Butler        |          |  |
|                              | Industrial                       | Consumers       |                    |          |  |
| Vittoria Bellissimo          | IPCAA                            | Yes             | Richard Penn       |          |  |
| Grant Pellegrin              | Cenovus                          | Yes             | Horst Klinkenborg  |          |  |
|                              | Demand                           | Response        |                    |          |  |
| Colette Chekerda             | ADC                              | Yes             | Christian Lenci    |          |  |
| Surendra Singh               | Alberta News Print               | Yes             | Christian Lenci    |          |  |
|                              | Combined Loa                     | d and Genera    | ation              |          |  |
| Dale Hildebrand              | Dual Use Customers               | Yes             | Myles Fox          |          |  |
| Kris Aksomitis               | Cogeneration Working<br>Group    | Yes             | Travis Tuchscherer |          |  |
|                              | Distribution I                   | acility Owner   | rs                 |          |  |
| Janene Taylor                | ENMAX Corporation                | Yes             | Tony Martino       | Telecon  |  |
| Leland Jernberg              | FortisAlberta                    | Yes             | Gerald Zurek       | Telecon  |  |
|                              |                                  | atives-at-large | )                  |          |  |
| Ed de Palezieux              | Devon Energy                     | Yes             | Rick Cowburn       | Yes      |  |
| Bryan Krawchyshyn            | TransCanada Pipelines            | Yes             | Mark Thompson      |          |  |
| Other interested parties     |                                  |                 |                    |          |  |
| Transmission Facility Owners |                                  |                 |                    |          |  |
| Hao Liu                      | AltaLink                         | Yes             | Rob Senko          |          |  |
|                              | Generators (inc                  | ludes renewa    |                    |          |  |
| Colin Robb                   | Capital Power                    | Yes             | Akira Yamamoto     |          |  |

Tariff Advisory Group, Session 8 (March 6, 2019)

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| Representative    | Company or Organization                 | Present?       | Alternate     | Present? |  |
|-------------------|---|----------------|---------------|----------|--|
|                   | Energy                                  | / Storage      |               |          |  |
| Patricia Phillips | Energy Storage Canada                   | No             | Travis Lusney | Telecon  |  |
|                   | Represent                               | ative-at-large |               |          |  |
| Tory Whiteside    | Distributed Generation<br>Working Group | Yes            | Leonard Olien |          |  |
|                   | AESO                                    |                |               |          |  |
| Doyle Sullivan    | AESO                                    | Yes            |               |          |  |
| LaRhonda Papworth | AESO                                    | Yes            |               |          |  |
| Matt Gray         | AESO                                    | Yes            |               |          |  |
| John Martin       | AESO                                    | Yes            |               |          |  |
| Trushal Umrania   | AESO                                    | Yes            |               |          |  |
|                   | Fac                                     | ilitator       |               |          |  |
| Karla Reesor      | Moving Forward                          | Yes            |               |          |  |

#### Guests:

#### none

### Agenda

|                     | # min  | Agenda Items  | Presenter                 |
|---------------------|--------|---|---------------------------|
| 9:00 am – 9:30 am   | 30 min | <ul> <li>Introduction</li> <li>Welcome (members, presenters)</li> <li>Session overview and objectives</li> <li>Review and approval of February meeting notes</li> <li>Update on Action Items</li> </ul>           | Karla Reesor, Facilitator |
| 9:30 – 10.45 am     | 75 min | Capacity Cost Allocation Analysis WG Update:<br>Recommendation<br>• Chair presentation (John Martin)<br>- Principles<br>- Time blocks<br>- Weights<br>• Roundtable<br>- CCAA WG members<br>Remaining TDAG members | All                       |
| 10:45 am – 11:00am  |        | Break   |                           |
| 11:00 am – 12:00 pm | 60 min | Capacity Cost Allocation Terms and Conditions WG<br>Update: Recommendations<br>• Chair presentation (Richard Stout)   | All                       |

|                     | # min  | Agenda Items  | Presenter                 |
|---------------------|--------|---|---------------------------|
|                     |        | <ul> <li>Penalties</li> <li>Metering</li> <li>Deferral accounts</li> <li>Roundtable</li> <li>CCA TC WG members</li> <li>Remaining TDAG members</li> </ul> |                           |
| 12:00 pm – 12:30 pm | 30 min | Lunch   |                           |
| 12:30 pm – 12:50 pm | 20 min | Transmission Tariff WG Update   | LaRhonda Papworth         |
| 12:50 pm – 1:10 pm  | 20 min | Roundtable – general discussion items   | All                       |
| 1:10 pm – 1:30 pm   | 10 min | Review of conclusions, action items and next steps  | Karla Reesor, Facilitator |
| 1:30 pm             |        | Session adjourned   |                           |

#### **Meeting Notes**

| Time    | Item   |
|---------|--|
| 9:00 am | <ul> <li>Introductions <ul> <li>The agenda was accepted.</li> <li>Meeting notes from February 7, 2019 were approved</li> </ul> </li> </ul>   |
| 9:15 am | 2. Capacity Cost Allocation Analysis WG Update: Recommendations  |
|         | John Martin (AESO) provided an update from the WG.   |
|         | <ul> <li>The bookend analysis provided directional and indicative results with caveats; the narrow peak bookend resulted in <u>reducing</u> minimum gross procurement volume by 37 MW; the wide peak bookend resulted in <u>increasing</u> minimum gross procurement volume by 34 MW.</li> </ul>   |
|         | <ul> <li>Resource adequacy model is a probabilistic tool and was not intended to provide exact<br/>forecast of hourly unserved energy; model indicates higher probability that unserved energy<br/>will occur during weekdays rather than weekends and during on-peak rather than off-peak<br/>hours.</li> </ul>   |
|         | <ul> <li>WG evaluated an on-peak time block containing about 400 hours; a mid peak block<br/>containing about 3600 hours and an off-peak block containing about 4800 hours. WG<br/>recommended that the on-peak block should be no more than 400 hours such that<br/>production capability is not impacted.</li> </ul>   |
|         | • WG examined a range of initial weights starting with unserved energy in each time block;<br>WG indicated a number of additional considerations need to be examined, however, at this<br>point, WG supports a high on-peak rate that would be sufficient to incent price responsive<br>load to curtail, a mid-weight block that would not be a barrier to exports and a and low or \$0<br>off-peak rate. A table was provided indicating the range of possibilities. The starting point for<br>examination was a 4:1:0 weights in peak time blocks. |
|         | <ul> <li>Prior to finalizing the weights the WG indicated that additional considerations will<br/>need to be examined; these were provided in the presentation. A fourth bin will also<br/>be investigated as three bins may not provide sufficient flexibility when establishing</li> </ul>   |

|        | weights.   |
|--------|--|
| Member | ers of the WG provided additional comments:  |
| 0      | In the past, price responsive load recovered approximately 50% of revenue in approximately 5% of hours; this has led to a lot of investment in the ability of sites to take load offline; 400 hours pushes limit of responsiveness; WG doesn't want to negatively impact competitiveness of industry; AESO has done a good job of balancing interests. |
| 0      | Biggest constraint at this point is the Capacity Market Regulation; difficult to meet regulation's requirements and create efficient price signal; narrow signal "does less harm" than other options.  |
| 0      | Appreciate volume and quality of AESO work; AESO staff is squeezing useful info out of RAM; rate design includes a lot of judgement.   |
| 0      | WG has landed on what is the least damaging and has potential for demand response; hope that it gets revisited with analytical rigour going forward; RAM model may need to be addressed as it is not fit for purpose for cost allocation purposes.   |
| Comme  | ents from members of the TDAG who were not on the WG included:   |
| 0      | AESO is missing an integrated model to be able to consider impact on demand curve and energy prices; looks like a lot of work and a lot of design with minimal impact; is impact worth the effort?   |
| 0      | Presentation to industry may need to provide more context on 400 hour time block.  |
| 0      | Need to be mindful of unintended consequences – an aggregator could sign up to provide demand response; need to think through which customers are receiving the signals and target the signals appropriately.  |
| 0      | Different views were expressed on the appropriate ratio for weights.   |
| 0      | May be too narrow to focus only on minimizing capacity cost; need to also factor in energy market and transmissions costs to be able to assess total costs.  |
| 0      | Suggest renaming time periods to peak/mid/low to differentiate from other existing use of on-peak/mid-peak/off-peak terminology.   |
| 0      | Smaller loads cannot respond to price signals in the same way as larger loads.   |
| 0      | It's legitimate to consider "softer" benefits of price impacts, e.g. concern about industry leaving province.  |
| 0      | Not clear on whether there is a need for more than 2 time blocks.  |
| 0      | Supportive of AESO looking at more than 3 time blocks and moving dollars to off-<br>peak.  |
| 0      | May be some concerns about a level playing field at auction between generators<br>who receive only the capacity clearing price and price responsive load who could<br>receive the capacity clearing price and avoid capacity market cost allocation<br>charges.  |
| O      | Agree that efficient price and response is necessary and useful and the challenge is<br>how to strike balance between price signals and corresponding cost reduction; need<br>to consider other options such as storage; need integrated, forward looking basis to<br>assess total price.  |
| 0      | Need a manageable number of time blocks; some existing distribution billing systems have a capability to handle 3 time blocks now.   |
| A mem  | ber of the WG responded to the comments:   |
| 0      | Agree with the comment to consider all costs, not just capacity costs; there is no simple way to determine the actual demand response.   |
| 0      | There will be a need to monitor price responsiveness of load and to be very clear  |

|         | about reporting/monitoring and when data and analysis will be abared by AEOO   |
|---------|--|
|         | <ul> <li>about reporting/monitoring and when data and analysis will be shared by AESO.</li> <li>Support the comments that RAM is not designed for this type of assessment.</li> </ul>  |
|         | <ul> <li>Support the comments that NAM is not designed for this type of assessment.</li> <li>Acknowledged the need to be mindful of customer communications, and also that</li> </ul>  |
|         | more context may be needed to discuss preferred ratios.  |
|         | $\circ$ Two time blocks would not be sufficient to provide appropriate price signals.  |
|         | <ul> <li>A suggestion was made to add calculation for energy costs with each time block and to provide more context for how the 400 hour time block was identified as the optimal approach.</li> </ul>   |
|         | <ul> <li>AESO staff indicated that for the industry update on March 13, the slides would be adjusted<br/>to be clear that the WG is not yet providing final recommendations for the time blocks and<br/>weights.</li> </ul>  |
|         | The WG will reconvene in April and determine whether an update will be possible for the next TDAG meeting.   |
| 12:40pm | 3. Capacity Cost Allocation Terms and Conditions WG Update: Recommendations  |
|         | <ul> <li>Richard Stout (UCA) provided an overview of the WG work to date.</li> </ul>   |
|         | <ul> <li>AESO legal review has the AESO's positions as follows:</li> </ul>   |
|         | <ul> <li>Penalties or incentives cannot be applied to loads at self-supply sites or other<br/>subsets of classes of system access service.</li> </ul>  |
|         | <ul> <li>Capacity market costs can be allocated at a different measurement point than the<br/>point of delivery ("POD") used for transmission settlement of system access<br/>services.</li> </ul>   |
|         | <ul> <li>Capacity market costs must not be allocated to isolated communities.</li> </ul>   |
|         | <ul> <li>A proposal for self-supply monitoring is being considered by the AESO and will be<br/>discussed at the next WG meeting; the AESO noted that self-supply is just one area where<br/>monitoring or assessment may be needed to determine impacts of prices; there were<br/>different views shared about the need for the AESO to monitor for reliability and the role of<br/>the MSA to assess the markets.</li> </ul>  |
|         | <ul> <li>Distribution metering gross-up – group agreed that gross-up for distribution connected<br/>generation remains appropriate (excluding those within a self-supply site). Participation in<br/>the capacity market of distribution-connected load through aggregation is considered<br/>improbable in the initial auction and the issue was parked for consideration at a later time.</li> </ul>   |
|         | <ul> <li>Deferral account recovery riders – if amounts in deferral accounts are small, then there are fewer issues and recovery could occur over 12 months; if the amounts are larger, then there are more questions about options and implications; further analysis is required on the likely size of deferral account balances and the materiality of customer impact under each scenario. If there are large balances, amounts could be collected quarterly. There will be a need to balance the rider with administrative costs.</li> </ul> |
|         | The WG will not be meeting again until early April while members focus on other matters.   |
|         | 4. Transmission Tariff WG  |
|         | <ul> <li>LaRhonda Papworth (AESO) provided an update on the status of studies and data<br/>collection. The AESO will initiate studies and data collection only when it is very clear how<br/>the information will be used.</li> </ul>  |
|         | <ul> <li>AESO staff anticipates accelerating work within AESO in mid-April; the AESO is open to<br/>receiving suggestions for consultants.</li> </ul>  |
|         | <ul> <li>Collette requested the agreement of the TDAG to bring a consultant (Brubaker and Co) to<br/>the WG to add more bench strength. All agreed.</li> </ul>   |
|         | Action – The WG will share a high level overview of the planned studies in late March so that  |

|         | TDAG members can provide consultant suggestions.  |  |  |  |
|---------|---|--|--|--|
|         | 5. Roundtable   |  |  |  |
|         | Action items were reviewed.   |  |  |  |
|         | <ul> <li>AESO invited feedback on timing for future TDAG meetings currently scheduled for April 4<br/>and May 9.</li> </ul>                         |  |  |  |
|         | • The group decided to hold 2 hours in the morning of April 11 as a possible update meeting.<br>There will still be a meeting on May 9, as planned. |  |  |  |
| 1:45 pm | 6. Meeting adjourned  |  |  |  |

#### **Report on Action Items**

| #                 | AG Action Items  | Action by | Due Date          | Status                 |  |
|-------------------|--|-----------|-------------------|------------------------|--|
| Session 7, Februa | Session 7, February 7, 2019  |           |                   |                        |  |
| Action Item 1     | Consider the feedback from the TDAG:<br>the definition of utilization being mindful<br>of what is actually driving costs; adding<br>fixed and variable costs into study<br>parameters; and, whether there is a<br>saturation point for CP. | TT WG     | On-going          | Noted by TT WG         |  |
| Action Item 2     | TT WG (Hao Liu AML and Grant<br>Pellegrin, Cenovus) will meet with Dan<br>Levson (AFREA) to discuss aspects of<br>data collection  | TT WG     | When<br>available |                        |  |
| Action Item 3     | Share perspectives with the TT WG on<br>potential rate design implications or<br>boundaries related to the planned study<br>topics by February 15. Comments can<br>be sent to tariffdesign@aeso.ca.  | TDAG      | Feb 15            | No comments received   |  |
| Action Item 4     | Consider an additional economic study<br>on competitiveness relative to other<br>jurisdictions.  | TT WG     | On-going          | Noted by TT WG         |  |
| Action Item 5     | After reviewing draft Terms of Reference<br>for studies that will be provided by the TT<br>WG, TDAG members are asked to share<br>any suggestions for external consultants<br>who would be well suited to conduct the<br>studies.          | TDAG      |                   | Deferred to late March |  |

## **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 Group struck  |
|                       | Decision Item 7 | Data Requirements Working Group concluded  |
|                       | Decision Item 8 | Transmission Tariff Design Working Group struck  |
| 2019                  |                 |  |
| S7 – February 7, 2019 | Decision Item 9 | Approved plan for studies and data collection proposed by<br>Tariff Design Working Group |