

2019 Budget Review Process (BRP) Proposed Business Initiatives

Stakeholder Meeting

September 18, 2018



Purpose



- The purpose of this presentation is to provide the stakeholders with:
 - a status update of the AESO's 2019 Budget Review Process (2019 BRP); and
 - an initial listing of proposed 2019 Business Initiatives
 - an update on 2017-2018 completed Business Initiatives
 - obtain stakeholder feedback

Agenda



- BRP participants confirmed stakeholder
- Budget Review Process status update
- 2019 Proposed Business Initiatives overview
- 2019 Proposed Business Initiatives
- Appendices
 - Appendix 1 2017-2018 Business Initiatives update
 - Appendix 2 2019 BRP Milestones (proposed 2018 dates)
 - Appendix 3 2019 BRP Proposed Process Steps

BRP participants - confirmed stakeholders



The following stakeholders have confirmed their participation in the 2019 BRP:

- Alberta Direct Connect (ADC)
- ENMAX Corporation (ENMAX)
- Industrial Power Consumers
 Association of Alberta (IPCAA)

- TransAlta Corporation (TransAlta)
- Utilities Consumer Advocate (UCA)

Budget Review Process - status update



- 2019 Budget Review Process
 - Notice to Stakeholders Issued
 - 2019 Proposed Business Initiatives Drafted
 - Forecasts (Pool Price, Ancillary Service and Transmission Line Losses Costs) – Work In Progress
 - Own Costs Budget Work In Progress
 - General and Administrative budget
 - Capital budget
 - Other Industry Costs

2019 Proposed Business Initiatives - overview



- The business initiatives:
 - form the basis of AESO's 2019 corporate goals and work plans (organizational direction for 2019)
 - are the foundation for the development of AESO's budgeted costs
- Consist of a combination of carry forward and new initiatives that align with the AESO's Strategic Plan
 - tend to be multi-year in nature
 - are internal and external facing
 - stakeholder consultation is focused on the external facing initiatives



2019 Proposed Business Initiatives includes expected achievement for 2018 carry forward Business Initiatives





Internal / External	Business Initiative	Expected Achievement in 2018	Plan 2019
Ext.	Intertie restoration	Design Complete design and development of intertie requirements Initiate stakeholder consultation on intertie requirements Complete Regional Electricity Cooperation and Strategic Infrastructure Initiative (RECSI) project studies in coordination with National Resources Canada (NRCAN)	Implementation Initiate needed regulatory approvals to implement the intertie restoration requirements
Ext.	Advancement of the Fort McMurray West project	Design, Implementation The Fort McMurray West project is currently under construction. Alberta Powerline (APL) filed a tariff with the AUC which was approved in January 2018 Integration and management of the Fort McMurray West commercial agreement Development of programs to commercially manage the Fort McMurray West project post energization Independent Certifier engaged	Implementation Implementation of required tools and process with the target in-service date for the Fort McMurray West Project is 2019 Ensure energization criteria is met prior to the first monthly payment.
Ext.	System control center (SCC) facility expansion	Implementation Building structure to be completed in Q4 2018	Implementation Construction to be completed in Q3 2019



Internal / External	Business Initiative	Expected Achievement in 2018	Plan 2019
Ext.	IT systems and solutions for market evolution	Design, Implementation Initiate development of tools to support capacity delivery (settlement, performance measurement) and energy market changes for first capacity delivery period Reliability model to support development of capacity market demand curve implemented. High level design for capacity market auction tools in development	Design, Implementation Continue major program to design and implement systems to support the capacity market, including projects for:
Ext.	Capacity market technical design	Design, Implementation Final Comprehensive Market Design (CMD Final) posted to AESO website. Drafting of ISO Rules to reflect market design contained in CMD Final Finalization of demand curve approach. Development of capacity cost allocation tariff Stakeholder engagement on rules and cost allocation to commence in July 2018	Design, Implementation Continue Stakeholder Engagement (i.e. ISO Rules, ISO Tariff, etc.) Capacity market rules filed with the AUC and obtain regulatory approval of ISO rules that reflect capacity market design
Ext.	Capacity procurement process	Design Capacity procurement process Commence development of processes, tools and guidelines	Design, Implementation Continue development of process, guidelines, tools and education Implementation to position AESO to commence opening first capacity procurement process in Q4 2019



Internal / External	Business Initiative	Expected Achievement in 2018	Plan 2019
Ext.	Tariff: General Tariff Application Tariff Cost Allocation for Capacity Market	Design, Implementation Implementation of the 2018 ISO tariff update application File the 2018 ISO tariff application with the Alberta Utilities Commission (AUC) Initiate comprehensive consultation process to review bulk and regional transmission rate design as well as the design for allocation of capacity market costs	Design, Implementation Implementation: continue tariff approval process and implementation of the 2018 ISO tariff application Continue comprehensive consultation process to review bulk and regional transmission rate design as well as the design for allocation of capacity market costs
Ext.	Renewable Electricity Program (REP)	Design, Implementation Progress towards design and implementation of required tools (settlement, etc.) and processes in line with the target in-service date for REP Round 1 projects of Q4 2019 Implementation of REP Rounds 2 and 3 with associated Renewable Electricity Support Agreements awarded by the end of Q4 2018 (through request for proposal process)	Design, Implementation Continue implementation and design of required tools and processes in line with the target in-service date for REP Round 1 projects of Q4 2019 Continue implementation of REP Round 2 and 3 with the target in-service dates in 2021
Ext.	EMS Sustainment	Design Completion of definition work for EMS Core and project validation work for EMS Application upgrade	Design, Implementation Continue design and implementation of EMS Core upgrade to maintain sustainability of the EMS system Initiate design and implementation of EMS application upgrade to advance the application layer of EMS: to support reliability and operation of the evolving, complex market and electric systems



Internal / External	Business Initiative	Expected Achievement in 2018	Plan 2019
Ext.	Western Interconnection Reliability Coordinator (RC) Initiative	Design With the announcement of the change to the provision of Reliability Coordinator (RC) services in the Western Interconnection: Coordinate with current RC in the Western Interconnection (Peak Reliability Inc.), and future RCs (California Independent System Operator, BC Hydro, Southwest Power Pool). Develop implementation plan to transition RC services from Peak Reliability to relevant future RCs, and commence implementation of plan	Implementation Complete required work for modelling, data exchange, RC-RC coordination, tool development, training and compliance



Appendix 1



2017-2018 Business Initiatives – update (completed in 2017 and 2018)



Internal / External	Business Initiative	Achievement's in 2017 and 2018
Ext.	Alberta Reliability Standards (ARS) Critical Infrastructure Protection (CIP)	AESO became CIP compliant as of October 1, 2017 AESO completed Western Electricity Coordinating Council (WECC) CIP audit of AESO compliance with standards in Q1 2018
Ext.	Advance system and Regional transmission projects identified in the Long Term Plan (LTP)	Facility Application (FA) filed for the Calgary Downtown Reinforcement Project by ENMAX on November 30, 2017 The Provost to Edgerton and Nilrem to Vermillion (PENV) AUC decision on PENV NID filing was received on January 12, 2018. AUC requested to revise the NID submission. The revised NID was filed by the AESO with the AUC on March 26, 2018 Rycroft Transmission Reinforcement NID, a component of the NW transmission plan filed by the AESO with the AUC in Q4 2017 AESO completed design and development of Chapel Rock- Castel Rock Ridge project requirements and consultation started in Q1 2018
Ext.	Market system replacement and reengineering (MSR) Project	Successfully completed medium-term sustainment measures for 2017

2017-2018 Business Initiatives – update (completed in 2017 and 2018)



Internal / External	Business Initiative	Achievement's in 2017 and 2018
Ext.	Tariff rate information and updates	In Q3 2017, the AESO filed the Rider C, Deferral Account Adjustment Rider, amendment application for changes to Rider C and the deferral account reconciliation methodology on an interim refundable basis. This application was filed as part of the 2018 ISO tariff application. Approval was provided by the AUC on an interim basis in Q4 2017 with a Q1 2018 implementation In Q3 2017, the AESO filed the 2018 ISO tariff application (formerly referred to as the 2017 ISO Tariff Application). The AUC suspended this proceeding to allow the AESO time to consult on the coincident metered demand rate design issue and distribution facility owner customer contribution issue In Q3 2017, the AESO filed the 2018 ISO tariff update application. Approval was provided by the Alberta Utilities Commission in Q4 2017 on a final basis with a Q1 2018 implementation An updated Transmission Rate Projection (TRP) model, to incorporate the LTP results, was published and filed with the AUC in Q2 2018 In Q2 2018 the AESO proposed to the AUC a comprehensive consultation process to review bulk and regional transmission rate design as well as the design for allocation of capacity market costs. The AUC approved the AESO's proposal to begin the consultation process. The AESO initiated the consultation process in Q3 2018 In Q3 2018, the AESO filed the revised 2018 ISO Tariff Application

2017-2018 Business Initiatives – update (completed in 2017 and 2018)



Internal / External	Business Initiative	Achievement's in 2017 and 2018
Ext.	Alberta Interconnected Electrical System (AIES) - enhancements (reliability and integration)	Energy Management System (EMS) Upgrade Project completed in Q4 2017 Wide Area Network (WAN) fully operational in Q4 2017
Ext.	Advance customer connection projects within the connection queue	49 customer energizations (including Connection, Contract and Behind-the-Fence projects) completed as of December 31, 2017 (for 2017)
		12 customer connection Abbreviated Need Identification Documents (ANID)s filed with the AUC (none of which were Market Participant Choice projects) and 1 Abbreviated Needs Approval Process (ANAP) customer connection projects were approved as of December 31, 2017 (for 2017)



Appendix 2

2019 Budget Review Process (BRP) Milestones (proposed 2018 dates)



AESO Board Decision Document

1.0 Invitation to Stakeholders (completed)
August 2
2.0 AESO Business Initiatives (completed)

June - July (internal)

4.0 Technical Review Meetings with Stakeholders

September 18 - Business Initiatives October 10 - Own Costs Budget Transmission Operating Forecasts

3.0 Develop AESO Own Costs Budget, Transmission Operating Forecasts (internal)

July – September

5.0 AESO Board Decision

November 14 p.m.- Stakeholder presentations to AESO Board



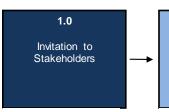
Appendix 3

Process Steps



AESO 2019 Budget Review Process Overview - Steps

Process to approve forecasted Ancillary Services & Transmission Line Losses and update Stakeholders on Business Initiatives and Own Cost budget



- Notice sent to all stakeholders that the process to develop and review forecasted costs will commence
- Process includes developing a schedule with all milestone dates
- AESO posts invitation and supporting documents to AESO website and asks for written comments
- AESO makes revisions as deemed necessary

2.0 AESO Develops Strategies & Business Initiatives

- AESO to solicit stakeholder input on strategies and business initiatives
- Review progress on existing strategies and business initiatives with stakeholders
- Stakeholders receive AESO strategies and business initiatives for the upcoming budget period
- AESO posts meeting overview document to AESO website and asks for written comments
- AESO makes revisions as deemed necessary

3.0

AESO develops Own, Ancillary Services and Transmission Line Loss Costs Forecasts

- AESO prepares Own Cost forecast for the upcoming budget period based on the business initiatives and strategic plan set out in Step 2.0
- AESO prepares forecasts of Ancillary Services and Transmission Line Loss Costs
- AESO provides documents to stakeholders in advance of holding a technical review meeting

4.0

Technical Meeting to Review Forecasted Costs

- AESO holds technical session with stakeholders where the AESO presents forecasted costs, assumptions and responds to stakeholder comments
- AESO posts meeting overview document to AESO website and asks for written comments
- AESO makes revisions as deemed necessary
- AESO prepares an AESO Board Decision Document and provides to stakeholders for review prior to submission to the AESO Board
- AESO submits Board Decision Document to the AESO Board for review and decision

5.0

AESO Board Decision

- AESO Board reviews Board Decision Document
- Stakeholders make oral or written presentations to the AESO Board on issues of disagreement or concern (multi-lateral) based on comments submitted in one of the earlier steps
- AESO Board considers stakeholder presentations and reply comments in its approval process
- AESO Board issues a decision for AESO's Own, Ancillary Services and Transmission Line Loss Cost forecasts with rationale

6.0

Dispute Process

- Dispute resolution mechanism for instances where a stakeholder disagrees with the AESO Board Decision
- The Dispute
 Resolution
 process is outlined
 in the ISO Rules



Thank you

