



AESO 2006 General Tariff Application Preview — Rates and Terms and Conditions

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Topics

- Purpose of presentation
- Background
- Overview of changes
- Changes to rates
- Changes to terms and conditions
- Directions addressed
- Questions

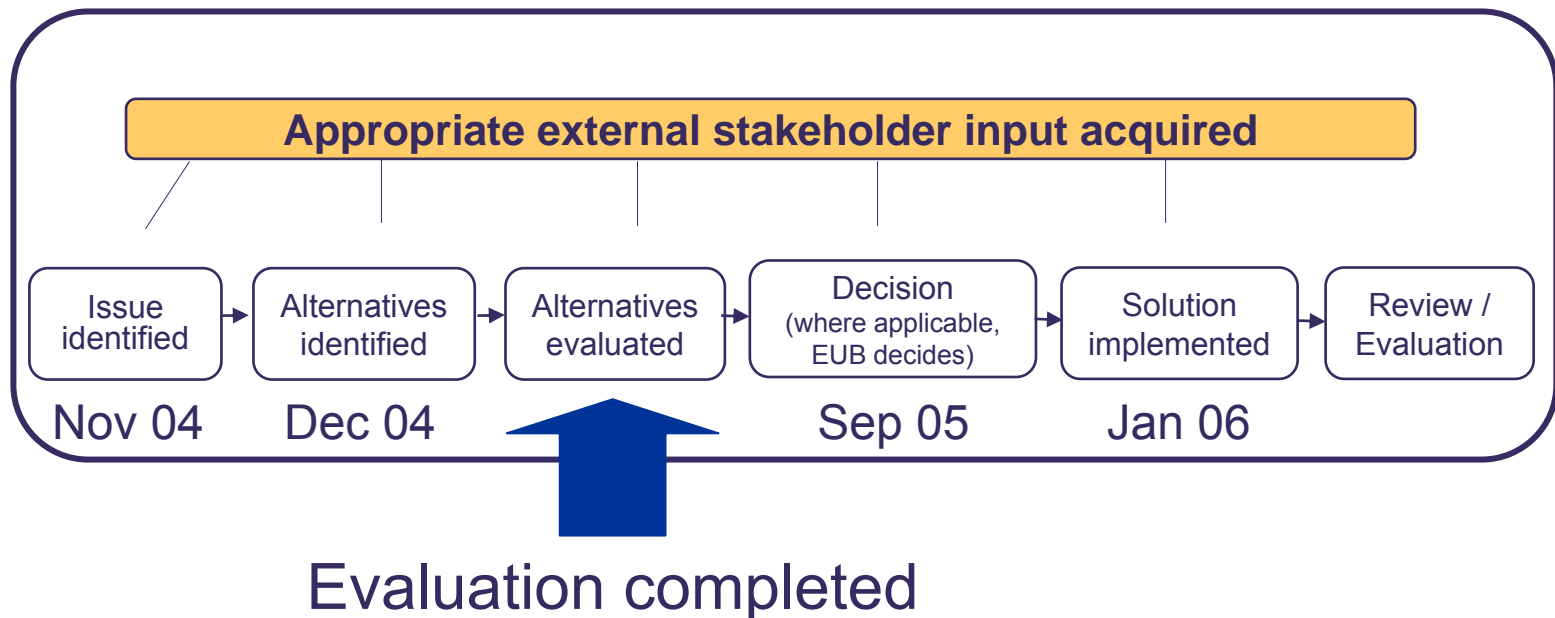


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AESO Consultation Process

- Final stage of determining content of 2006 GTA to be filed February 1, 2005
- Further stakeholder opportunities exists within regulatory proceeding



Purpose

- Give stakeholders a preview of the upcoming filing of the AESO's 2006 tariff proposal
 - Rates, terms and conditions of service, and responses to outstanding EUB directions
- Presentation includes draft values for revenue requirement and rates, but numbers are still being refined and may change in final filing
- Continuation of consultation process for AESO tariff applications
- Final opportunity for feedback before filing



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2006 Phase II Background

- 2005 General Tariff Application filed on October 3, 2004
- Combined 2005-2006 proceeding ordered on December 2, 2004
- 2006 tariff workshop on December 3, 2004
- Interim rates effective January 1, 2005
 - Terms and conditions continue unchanged
- 2006 tariff application to be filed on February 1
 - 2006 rates and terms and conditions will replace current rates and terms and conditions on January 1, 2006



2006 Phase II Background (cont'd)

- 2006 rates based on 2006 revenue requirement and 2006 billing determinants
- Presentation is still considered draft
 - Some items still being revised and clarified
- Maintains rate structures similar to existing structures through 2006
- Will not apply to any bills prior to effective date



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Customer Concerns

- Length of current 5-year ratchet
- Complexity of current contribution policy
- Lack of clarity on system and customer-related costs
- Complexity of interconnection application process
- Re-integration of STS wires costs into DTS rate
- Primary Service Credit to replace Customer-Owned Substation (COS) Credit



Transmission Regulation

- **Import-export tariffs:** “...import or export of electricity to or from Alberta” [s.15(6)]
- **Generator contribution policy:** “...local interconnection costs...payable by an owner of a generating unit...” [s.16(1)]
- **Loss charges:** “...pay location-based loss charges or receive credits” [s.22(1)] “...adjusted by a calibration factor...” [s.21(1)]
- **TMR compensation:** “...using a methodology described in the ISO tariff” [s.23(1)]



Transmission Regulation (cont'd)

- **Costs wholly charged to load:** “...costs of the transmission system are wholly charged to owners of electric distribution systems, customers who are industrial systems and persons who have made an arrangement under section 101(2) of the act, and exporters” [s.30(a)]
- **Application:** “The ISO must apply to the Board no later than February 1, 2005...” [s.31(1)]
- **Effective date:** “The ISO tariff...takes effect on January 1, 2006” [s.31(3)]



Proposed Changes to Rates

- Recover 100% of wires, ancillary services, and AESO “own” costs through DTS rate
 - Previously 56% DTS and 44% STS
 - Losses to continue to be recovered 100% through STS
- Reduce DTS demand ratchet level to 90% of the prior 24-month period
- Introduce Primary Service Credit to replace Customer-Owned Substation (COS) Credit
- Revise recovery of voltage control and under-frequency mitigation costs based on cost study



Proposed Changes to Ts&Cs

- Revise contribution policy for load customers to \$27,000/MW/year
- Introduce refundable system contribution policy for generators of \$10,000 to \$50,000/MW
- Revise system access application terms to reflect revised interconnection process, including refundable, simpler, and reduced application fee
- Introduce prepaid operation and maintenance for optional facilities and generator local connection
- Update and reorganize terms and conditions



Wires Cost Causation Study

- Wires cost of service study directed in Decision 2001-32
- AESO commissioned study from PS Technologies Inc.
- Study circulated in stakeholder consultation process in September-December 2004
- Final study will be included in 2006 GTA



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Wires Cost Causation Results

Function	Total	Classification		
		Demand	Energy	Customer
Bulk	41%	33%	8%	–
Local	17%	14%	3%	–
Customer	42%	18%	–	24%
Total	100%	65%	11%	24%
Current DTS	100%	60%	40%	–

Totals may be different due to rounding



Modified Cost Causation Results

Function	Total	Classification		
		Demand	Energy	Customer
Bulk	41%	21%	21%	—
Local	17%	14%	3%	—
Customer	42%	42%	—	—
Total	100%	76%	24%	—
Current DTS	100%	60%	40%	—

*Notes: Bulk function classified equally to demand and energy
 Customer function classified wholly to demand
 Totals may be different due to rounding*



Current DTS and STS Classification

Function	Total	Classification		
		Demand	Energy	Customer
Current DTS	58%	35%	23%	–
Current STS	42%	–	42%	–
Total	100%	35%	65%	–

Totals may be different due to rounding



Cost Causation Including STS

Function	Total	Classification		
		Demand	Energy	Customer
Bulk	24%	12%	12%	–
Local	10%	8%	2%	–
Customer	24%	24%	–	–
STS	42%	–	42%	–
Total	100%	44%	56%	–
Current	100%	35%	65%	–

Totals may be different due to rounding



DTS Rate Change — Rates

Component	Unit	2005 Interim	2006 Applied for	Increase (Decrease)
Interconnection				
Demand	\$/MW	\$1,365.66	\$1,601.73	17%
Energy	\$/MWh	\$1.96	\$4.22	116%
Operating Reserve				
	% × PP	2.95%	3.86%	110%
Voltage Control				
	\$/MWh	—	\$0.96	
Other System Support				
	\$/MW	\$22.40	\$78.41	250%
Pool Price				
	\$/MWh	\$54.05	\$41.20	(24%)

Notes: 2006 rates based on 2006 applied-for costs and billing determinants



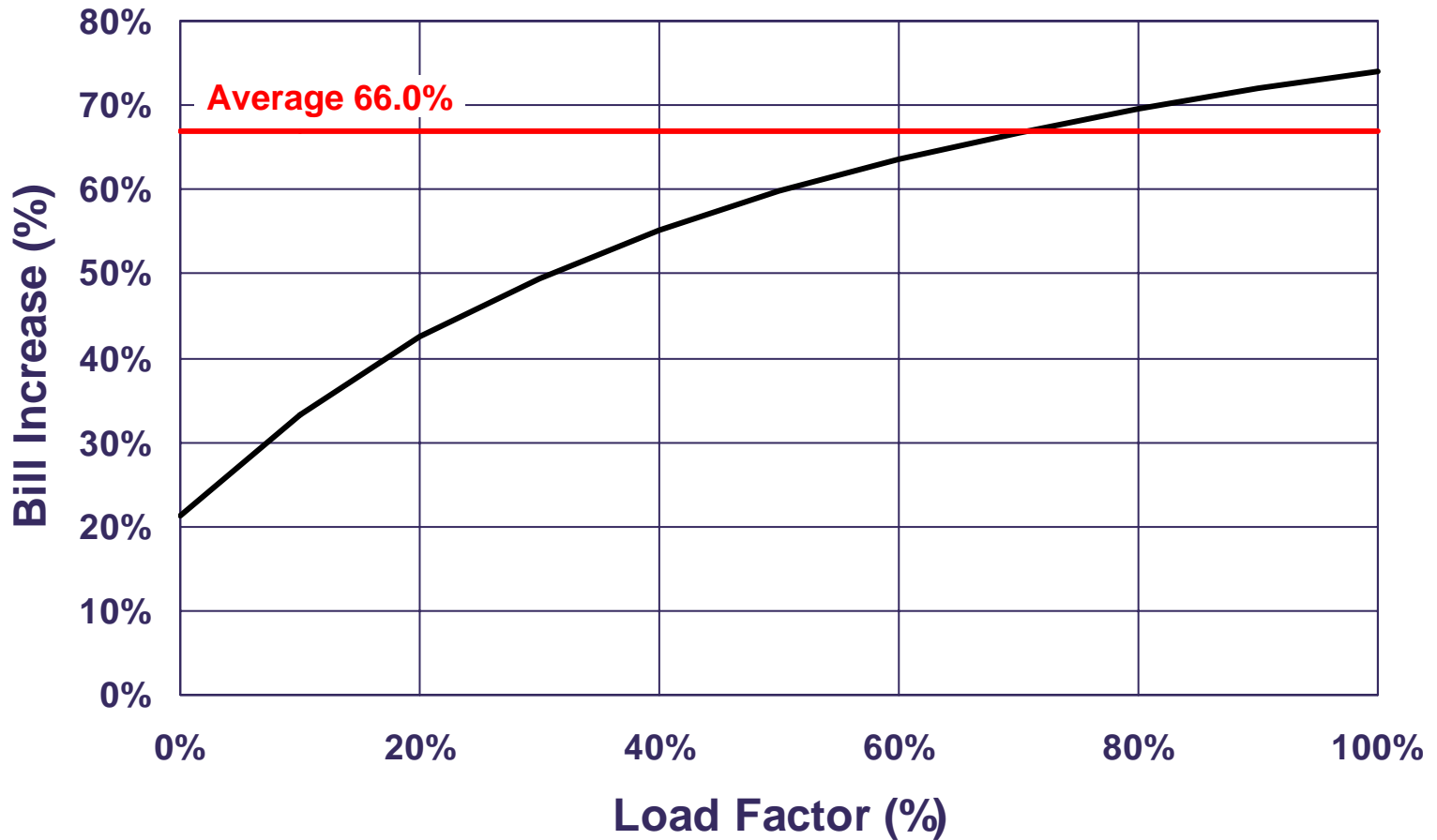
DTS and Total Bill Impact

	2005 Interim	2006 Applied For	Increase	% Change
5 MW DTS, 40% LF				
Interconnection	\$9,651	\$14,085	\$4,435	46%
OR and TMR	1,935	3,672	1,737	90%
OSS	112	392	280	250%
Total DTS	\$11,698	\$18,150	\$6,452	55%
Energy Supply	65,606	59,328	(6,278)	(10%)
Total Bill	\$77,304	\$77,478	\$173	0%
30 MW DTS, 80% LF				
Interconnection	\$74,839	\$120,974	\$46,135	62%
OR and TMR	23,225	44,070	20,845	90%
OSS	672	2,352	1,680	250%
Total DTS	\$98,735	\$167,395	\$68,660	70%
Energy Supply	787,277	711,936	(75,341)	(10%)
Total Bill	\$886,012	\$879,331	(\$6,681)	(1%)



DTS Bill Impact

Percentage Change in DTS Bill



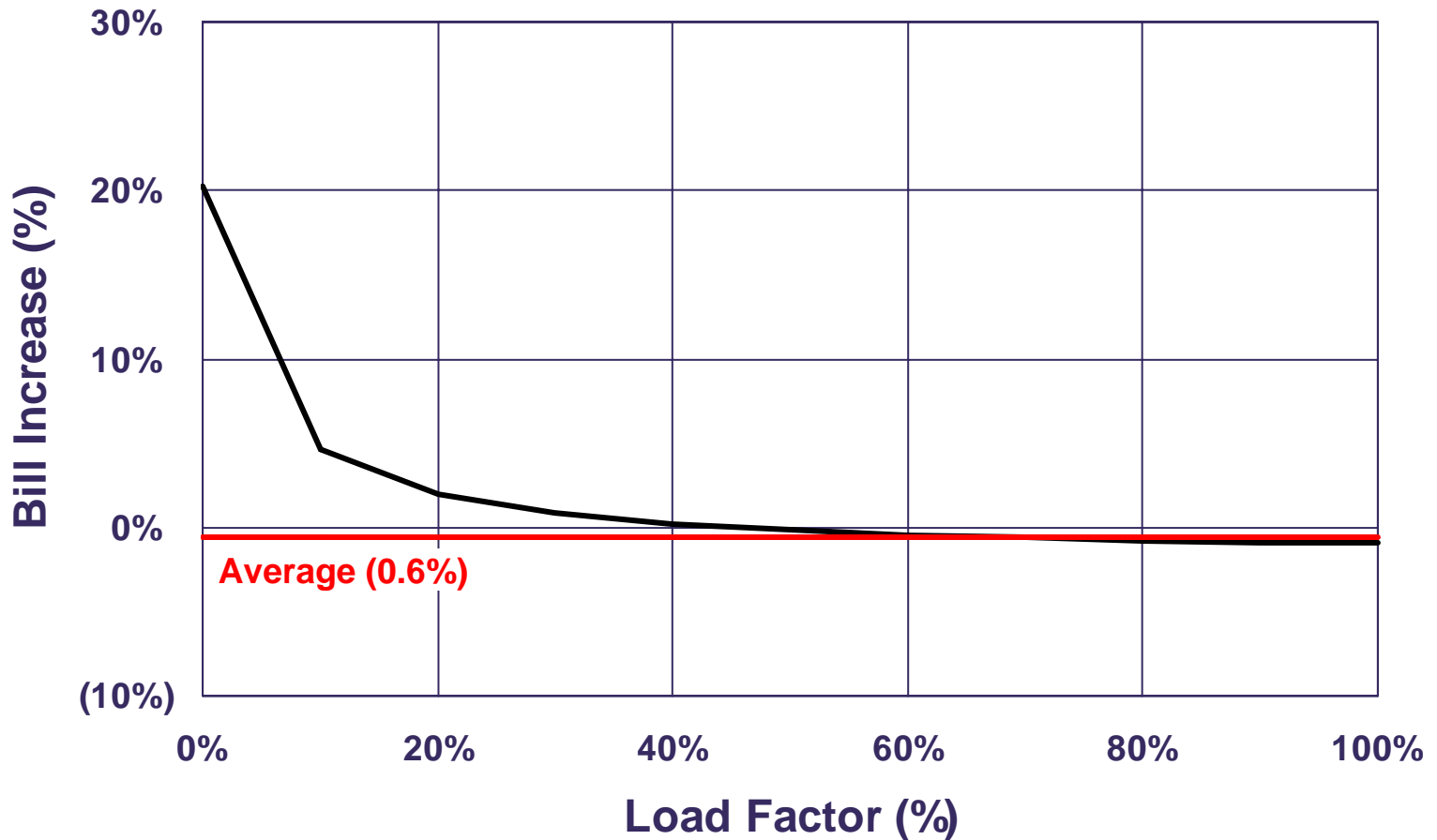
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Total (DTS and Energy) Bill Impact

Percentage Change in Total Bill



Demand Opportunity Service (DOS)

- Eliminate DOS 1 Hour
 - No customers currently on rate
- Retain DOS 7 Minute and DOS Term
 - Maintain rate structure
- Maintain current rate levels for 2006



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Supply Transmission Service (STS)

- STS rate reduced to losses charge
 - Metered Energy in each hour × location-specific loss factor × Pool Price
- Regulated Generating Unit Connection Costs will continue for those units
- Introduce Rider E to apply “a calibration factor to ensure that the actual cost of losses is reasonably recovered through charges and credits under the ISO tariff on an annual basis” [s.21(1)]
 - Prospective factor to maintain zero balance at year-end
 - End-of-year balances carried forward into next year [s.21(2)]



STS Rate Change — Rates

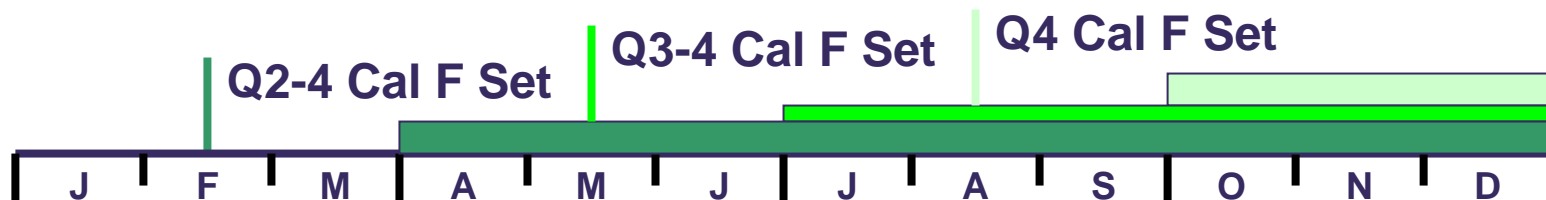
Component	Unit	2005 Interim	2006 Applied for	Increase (Decrease)
Interconnection	\$/MWh	\$2.90/MWh	—	(100%)
Losses	% × PP	Location-specific	Location-specific	0%
Operating Reserve	% × PP	4.22%	—	(100%)
Regulated Supply	\$/MW	\$365	\$323	0%
Pool Price	\$/MWh	\$54.05	41.20	(12%)

Notes: 2006 rates based on 2006 applied-for costs and billing determinants



Calibration Factor

- Every quarter a calibration factor is determined to maintain a zero balance for losses at year-end
- Calibration factor should only need to adjust for volume variances from forecast
- Factor would apply for remainder of year



- Balance at end of year would carry forward to next year
- Annual reconciliation would be filed with EUB



DTS Demand Ratchet

- Proposed ratchet is 90% of highest metered demand in past 24 months
 - Current ratchet is highest of:
 - 90% of highest metered demand in past 12 months
 - 85% of highest metered demand in past 24 months
 - 80% of highest metered demand in past 36 months
 - 75% of highest metered demand in past 48 months
 - 70% of highest metered demand in past 60 months
- Effect of ratchet change is 0.88% decrease in AESO revenue
- DTS interconnection demand charge increased 1.01% for all customers to keep revenue neutrality



DTS Demand Ratchet (cont'd)

- Responds to customer concerns with 5-year ratchet
- Corresponds to typical interval between AESO Phase II applications and opportunity for review
- A few individual customers will see up to a 24% **decrease** in interconnection charges due to reduced ratchet
- A few individual customers will see up to a 6% **increase** in interconnection charges due to 1.01% increase in demand charge and increase from 85% to 90% ratchet for previous 13-to-24 months



Primary Service Credit

- Rate remains \$700/MW/month of billing capacity
- Available only to customers if AESO roll-in would have covered transformer costs but customer purchases, owns, and operates its own transformer
 - Previous Customer-Owned Substation (COS) Credit was available to any customer who owned its own transformer
- Credit continues to be based on cost savings of typical transformer capital costs, levelized to determine a monthly credit



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Primary Service Credit (cont'd)

- Recognizes that no cost reductions exist to “fund” the credit unless costs would have been included in the AESO roll-in
- Customer who owns transformer sees lower transmission costs either through lower customer contribution or through Primary Service Credit, but not both



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Primary Service Credit — Example 1

	Transformer Owned By	
	TFO	Customer
DTS Load	10 MW	10 MW
Contract term	20 years	20 years
Maximum AESO roll-in	\$ 5,400,000	\$ 5,400,000
Cost to interconnect	\$ 5,200,000	\$ 5,200,000
Less cost of transformer	-	\$ 750,000
Actual AESO roll-in	\$ 5,200,000	\$ 4,450,000
Customer contribution	-	-
Reduction in AESO roll-in		\$ 750,000
Eligible for PSC?		Yes



Primary Service Credit — Example 2

	Transformer Owned By	
	TFO	Customer
DTS Load	10 MW	10 MW
Contract term	20 years	20 years
Maximum AESO roll-in	\$ 5,400,000	\$ 5,400,000
Cost to interconnect	\$10,900,000	\$10,900,000
Less cost of transformer	-	\$ 750,000
Actual AESO roll-in	\$ 5,400,000	\$ 5,400,000
Customer contribution	\$ 5,500,000	\$ 4,750,000
Reduction in AESO roll-in		-
Eligible for PSC?		No



PSC/COS Credit Eligibility

- Decisions 2001-32, 2001-68, and 2003-077 included directions addressing customer-owned substation (COS) credits
- Total credits summarized for 2002-2004
- Case-by-case analysis of eligibility for proposed primary service credit will be included with application
- Some sites currently receiving COS credit found to be ineligible for PSC



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Ancillary Services

- EUB directed EAL to file a more detailed and accurate cost study for ancillary services
- AESO commissioned EnVision Energy Consulting to conduct study, to be included in 2005 tariff application
- Proposed tariff changes were based on study results, rate stability, simplicity of understanding, and economy of billing
- AESO proposes to unbundle ancillary services into charges for operating reserve, transmission must-run (TMR), and other ancillary services



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Ancillary Services (cont'd)

- Operating reserve charge (including generator RAS and black start) will continue to be recovered as a varying energy charge based on a percentage of all-hours pool price
- TMR charge will be recovered as a flat energy charge
 - Currently recovered as a varying energy charge based on a percentage of all-hours pool price
- Other ancillary services include under frequency mitigation, Poplar Hills voltage control, and remedial action schemes (including ILRAS)



Ancillary Services (cont'd)

- Under-frequency mitigation costs will be recovered as a demand charge from load
 - Currently recovered as a varying energy charge based on a percentage of all-hours pool price
- Poplar Hills voltage control costs will continue to be recovered as a demand charge
- Interruptible load remedial action scheme costs will continue to be recovered similar to wires charges (44 per cent as a demand charge and 56 per cent as a flat energy charge)



Ancillary Services (cont'd)

- Net impact is a relatively small shift in how costs are recovered
- Proposed TMR cost recovery shifts \$53 million (9% of revenue requirement) to flat energy from varying energy charge
- Proposed under-frequency mitigation cost recovery shifts \$7 million (1% of revenue requirement) to demand from varying energy charge



Fort Nelson Tariffs

- Fort Nelson Settlement reviewed in Decision 2003-077
- AESO conducted further study and recommends:
 - Change DTS contract with BC Hydro to a separate demand service rate
 - Change STS contract with Powerex to a separate import service rate
 - Include incremental TMR cost related to serving the Fort Nelson load in the separate demand service rate
- Fort Nelson Demand and Supply Service rates included in application



Import-Export Tariffs

- AESO currently has:
 - Non-merchant import and export opportunity tariffs, and
 - Proposed import and export firm tariffs for Fort Nelson
- Discussion paper circulated Fall 2004 on non-merchant import and export firm tariffs
- Seeking a consistent approach for all import and export arrangements (non-merchant and merchant, firm and opportunity)
- Propose further consultation and future filing



Other Rates Deferred

- AESO proposed to defer creating new rates
 - Separate demand rates for DISCO and industrial customer
 - Short term backup supply rate
 - Coincident peak demand billing determinant
- Other matters in application represent major changes and would likely distract from full examination
- More consultation and investigated needed
 - Earlier consultation in September 2005 for 2007 tariff



Customer Contributions

- AESO contribution policy to:
 - harmonize with DISCOs
 - provide economic siting signal
 - not disturb postage-stamp pricing
 - apply consistently to all load
- Extensive revisions to load customer contribution policy to respond to EUB directions
- Extensive revisions to generator contribution policy to respond to Transmission Regulation



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Customer Contributions (cont'd)

- Interconnections costs re-classified
 - All direct costs continue to be classified as customer (customer substation and new radial line)
 - All bulk system costs continue to be classified as system (upgrades to existing looped network)
 - All local costs to be classified as system (upgrades to existing breakers and protection; previously local or system depending on who was identified as benefiting)
 - Effect will be to reduce amount of costs classified as local (and potentially paid by customer) for some projects
- Contribution policy applicability depends on System Access Service Agreement date



Load Contribution Policy

- Contribution = customer cost – maximum investment
- Maximum investment proposed to be \$27,000 per MW of DTS contract capacity per year of DTS contract term up to customer cost
 - Currently \$400,000 per year of DTS contract term after first five years, plus 3 times levelized annual revenue
- Proposed maximum investment will generally be greater than current roll-in for more than 15 MW of DTS capacity, and less than current roll-in for lower DTS capacity



Load Contributions — Example 1

	Current	Proposed
DTS contract capacity	6 MW	6 MW
DTS contract term	20 years	20 years
Investment level	\$400,000/yr + 3x revenue	\$27,000/MW/yr
Maximum investment	\$6,690,000	\$3,240,000
Customer cost	\$5,060,000	\$5,060,000
Actual investment	\$5,060,000	\$3,240,000
Customer contribution	-	\$1,820,000

Customer contribution increases by \$1,820,000

Reclassified direct/local costs may also reduce customer cost



Load Contributions — Example 2

	Current	Proposed
DTS contract capacity	55 MW	55 MW
DTS contract term	20 years	20 years
Investment level	\$400,000/yr + 3x revenue	\$27,000/MW/yr
Maximum investment	\$12,330,000	\$29,700,000
Customer cost	\$14,400,000	\$14,400,000
Actual investment	\$12,330,000	\$14,400,000
Customer contribution	\$2,070,000	-

Customer contribution decreases by \$2,070,000

Reclassified direct/local costs may also reduce customer cost



Load Contribution Policy (cont'd)

- Proposed maximum investment set so that 80% of projects would not require contribution
 - Currently more than 90% require no contribution
 - Based on analysis of 10 recent projects and 50 scenarios
- 80% guideline confirmed in Decision 2001-06:
 - “The level of the Roll-in Ceiling appears to have been chosen...so that 80% of system expansion projects would not require a contribution.... The Board considers this to be a fair manner to set the roll-in level as it preserves a balance between the need of new customers for service without a need for subsidy from existing customers.”



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Load Contribution Policy (cont'd)

- Contribution waived for projects for distributors at multiple-user PODs
 - Where 20-year agreement signed
 - Not applicable if project attributable to end-use sites of 2 MW or larger
 - Recognizes that siting signal cannot be sent for DISCO projects and that DISCOs and AESO coordinate systems for lowest overall cost
- Contribution revisited if project costs change, DTS contract capacity changes, or facility classification changes



Load Contribution Policy (cont'd)

- Contribution may be refunded if facilities used to serve additional customers within 20 years
- Contribution policy can be applied directly to dual-use (load and generation) customers, on a “load first” principle
- Contribution policy can be applied to staged loads by taking the present value of the roll-in corresponding to the incremental load for the remaining contract term



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Load Contribution Policy (cont'd)

- Investment available only to least-cost standard facilities required to provide service
- Must not be feasible to serve load through existing capacity at existing substations
 - Feasibility assessment would include five year load growth and system plans
- Available investment would be based on net increase in DTS contract capacity



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Generator Contribution Policy

- Presentation by Ed Hucman



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System Access Applications

- New process established through stakeholder consultation and will continue to be developed
- Allows TFO service provider and customer to work directly together
- Goal is to streamline application and make process more efficient
- AESO continues to oversee interconnections



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System Access Applications (cont'd)

- Application fees simplified and reduced
 - No longer charged for projects at multiple user PODs
 - Fees are refundable when service is energized
 - Single fee rather than two stages, consistent with single stage interconnection process
 - Minimum \$10,000 for up to 15 MW (previously 10 MW)
 - Maximum \$50,000 over 25 MW (previously \$90,000)



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Prepaid Operations & Maintenance

- Propose to add prepaid O&M to STS local connection facilities and DTS non-standard facilities
- Ensures only “standard” facilities are included in base DTS tariff
- Would be on the order of 15-20% of cost of STS local connection and DTS optional facilities
 - Evaluating prepaid O&M rate on TFO-specific basis



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TMR Compensation

- Amendment to ancillary services article currently before EUB sets price to be paid for conscripted TMR
- Ceiling for both conscripted and contracted TMR is cost of service, including fixed costs, operating and maintenance costs, and reasonable rate of return
 - Proposed amendment for conscripted TMR is less than cost of service
- Methodology used to determine cost of service will be described in AESO 2006 tariff



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Terms and Conditions

- Contract capacity allocation introduced at time of system access service agreement, with re-allocation possible if delays occur
- Contract capacity reductions may result in additional customer contribution
- Peak demand waivers made distinct to distribution facility owners
- Transmission system expansion article deleted in accordance with Transmission Regulation



Terms and Conditions (cont'd)

- Proformas of System Access Service Agreements and Construction Commitment Agreements deleted to enable non-material changes
- Language simplified
- Definitions updated
- Articles reorganized and renumbered
 - Article 24 is now Article 11
- Terms and conditions blackline will be included with application



Directions Addressed

- On-peak and off-peak ancillary service charges (Decision 2001-41)
 - EAL explained the difficulties in implementing on-peak and off-peak percentages for ancillary service charges in its 2001 GTA
 - AESO reiterates these conclusions and continues to recommend an all-hours pool price multiplier
- Non-compliance with System Controller directive (Decision 2001-15)
 - Fairness of Article 24 pricing addressed in Decision 2003-033 and direction no longer relevant



Directions Addressed (cont'd)

- Firm import/export service (Decision 2002-99)
 - Firm import/export service as well as other interconnection matters are reviewed in report to be circulated in stakeholder consultation process
 - Results to be incorporated into AESO 2006 GTA
- Loss factor methodology (Decisions 2000-1, 2000-27, and 2002-104)
 - Review of loss factor methodology completed and available on AESO web site
 - Transmission Regulation provides for locational loss factor methodology to be set through ISO Rules process



Directions Addressed (cont'd)

- Rider C by revenue category (Decision 2003-099)
 - Rider C charged by revenue category throughout 2004
 - Recommendation for 2004 and 2005 reconciliation filed in application to EUB on December 16, 2004
 - Compliance filing, workshop, and consultation preceded filing



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Directions Addressed (cont'd)

- Short interval demand (SID) metering (Decision 2001-32)
 - Study of short interval demand metering included with application
 - Short term variations in demand do not generally impact requirements for transmission facilities
 - The 15-minute, 8-minute, and 1-minute monthly ranges of demand show high positive correlation
 - Conclusion: there is no advantage to allocating costs over shorter intervals than the current 15-minute metering



Directions Addressed (cont'd)

- System planning/operations (Decisions 2001-06 and 2002-99)
 - Direction for zonal tariffs superceded by Transmission Regulation
 - AESO proposes three-stage congestion management protocol
 - Reliability objectives determined by AESO participation in Western Electricity Coordinating Council



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Directions Addressed (cont'd)

- Totalization (Decision 2001-68)
 - Terms and conditions state AESO will consider totalizing points of connection (POCs) when:
 - Multiple POCs are lower-cost solution
 - Customer is an EUB-designated industrial system
 - It is legally, technically, and economically viable to build a transmission bypass connecting two or more POCs



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Directions Addressed (cont'd)

- Public consultation before 2004 GTA (2003 Settlement)
 - Discussions initiated before and continuing through GTA process
- Study of reactive power (2003 Settlement)
 - Completed and posted on AESO web site (Mar 2003)
- Bill STS to PPA Buyers rather than PPA Owners (Decision 2002-48)
 - All prior billing to PPA Owners re-issued to PPA Buyers in Jun 2002
 - STS charges continue to be billed to PPA Buyers



Directions Addressed (cont'd)

- Stakeholder discussion on contract term discounts/surcharges (Decision 2001-32)
 - AESO requests relief because of lack of stakeholder interest
- Demand waivers for distribution maintenance and emergencies (Decision 2001-32)
 - Waivers provided in Article 16 of terms and conditions
- Cost responsibility for commercial upgrades (Decision 2001-32)
 - Decision 2002-099 retracted commercial class designation



Directions Addressed (cont'd)

- Cost summary and related details (Decision 2001-21)
 - Provided in 2004 Own Costs application and 2005 and 2006 Phase I GTA
- Insurance cover notes (Decision 2001-21)
 - Included in previous and current GTA (as long as competitive procurement of insurance policies is not jeopardized)



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Outstanding Matters

- Limitations of liability (Decision 2003-109)
 - Implications of Liability Protection Regulation incorporated into Terms and Conditions
- Customer contribution policy (Decisions 2001-06 and 2001-25)
 - Examples of discount rate calculations for cost of advancement provided
 - Other specific directions addressed in proposed customer contribution policy



Outstanding Matters (cont'd)

- Proposal for self-supply of system support services (Decision 2001-32)
 - Component of Wholesale Market Review currently underway; to be addressed at future date
- All other EUB directions have been addressed in previous or current application
 - Subject to acceptance by EUB



Questions?



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