

AESO Transmission System Projects - Quarterly Report



- see notes at the end of this document for report terminology and definitions

Project #	Project Name	Project Description	Need Description	NID/NIF Filed	NID/NIF Approved	P and L Filed	P and L Approved	Planned ISD	Forecast or Actual ISD	TFO	Year NID Valid	NID/NIF Estimate	PPS Estimate	TFO Forecast Cost	Project Status
246	Cordel-Metiskow / Hansman Lake	105km of 240 kV transmission line from Cordell to Metiskow, 240 kV breaker additions at Cordell, new 240/138 kV Hansman Lake substation and a connection from Hansman Lake to existing Metiskow.	Cordel to Metiskow - 240 kV Extension (EUB Approval # U2005-161)	2003-08-07	2004-02-24	2004-08-03	2005-05-18	2004-08-01	2005-12-17	ATCO & AML	2003	35,000,000	36,260,000	36,260,000	Complete - Awaiting Final Costs Pipeline Mitigation Outstanding
388	500KV KEG Conversion	South-KEG 500 kV Conversion (Part 1 of 2, see project 560 for part 2)	North-South 500 kV Transmission Line (EUB Approval # U2005-031)	2004-05-10	2005-04-22	2006-04-13	2006-06-28			AML	2004	36,152,000	66,331,373	66,331,373	Coordinating with the generators to complete the work. ISD to be determined.
										EPCOR	2004	2,562,000	3,065,768	3,065,766	

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416	SW 240 kV Transmission	About 30 km of D/C 240 kV line from Goose Lake to Peigan and 59 km of D/C 240 kV transmission line from Peigan to N. Lethbridge. New Goose Lake substation and 240 kV breaker additions at Peigan and N. Lethbridge. Replacement of existing 138/69 kV transformers with 30/40/50 MVA LTC transformers at Drywood 415S, Pincher Creek 396S and Magrath 225S. Salvage of existing Tempest 403S substation and extension of 820L (138 kV line) to Stirling 67S. At Stirling 67S add 138 kV facilities and 138/69 kV - 30/40/50 MVA LTC transformer.	SW Area Upgrade (EUB Approval # U2005-184, U2006-094)	2004-03-31	2005-05-17	2005-12-21		2006-04-01	2009-05-25	AML	2004	77,000,000	98,881,662	152,184,000	Direct Assigned to AltaLink, TransAlta and City of Lethbridge for their portions of the project. Direct Assigned to AltaLink for the 2nd 240 kV circuit from Peigan 59S to N. Lethbridge 370S FACILITY APPLICATIONS STATUS: Facility Application Dates: Pincher to Peigan - Aug 10, 2007 Drywood - Jan 12, 2006 Magrath - Jan 12, 2006 Thermal Upgrade - Jan 16, 2006 Stirling/820L - Feb 8, 2006 Peigan to Lethbridge - Aug 10, 2007 Reconductor 170L - April 13, 2006 Pincher Creek Tfmer Upgrade - June 9, 2006 Applications to be Filed: 138 kV line - 170L/725L Approved Applications: Magrath - Feb 6, 2006 Drywood - March 29, 2006 Thermal Upgrade - Feb 15, 2006 Pincher Creek Tfmer Upgrade - July 24, 2006 Stirling/820L - August 30, 2006 ESTIMATE NOTES: NID Estimate does not include E&S, AFUDC & Contingency
										Leth.	2005		26,899	35,906	
										TransAlta	2004		249,000	249,000	
447	788L Upgrade	Upgrade 138 kV line between Lac LaBiche and Heart Lake	788L Capability Upgrade (EUB Approval # U2005-11)	2004-12-01	2005-02-15	2005-02-18	2005-04-13	2005-03-01	2006-03-31	AML	2004	1,352,000	1,882,679	1,882,679	Complete - Final technical data submission under review.
466	Downtown Edmonton 240 kV Supply	240 kV cable from Castle Downs to new McDougall substation, alterations at Victoria substation and interconnection between Victoria and McDougall substations.	Downtown Edmonton 240 kV Supply (EUB Approval # U2005-161)	2005-04-08	2005-07-14	2006-06-15	2007-02-05	2008-05-31	2008-08-31	EPCOR	2005	34,900,000	54,304,760	80,643,259	Construction in-progress.

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541	Hangington - MacMillan 144 kV System Upgrade	Addition of 1-144 kV breaker, 1-10 MVAR cap bank, and 1-25 kV breaker at Hangington 820S motorized disconnects and SCADA at Altar 875S and Crow 860S substations.	Hangington 820S - MacMillan 885S System Improvements (EUB NIF # 1458437)	2006-04-26	2006-05-24	2007-02-01	2007-02-14	2007-07-31	2007-07-31	ATCO	2005	1,656,324	2,532,000	2,532,000	Complete - Awaiting Final Costs
545	PMU Keephills 320P	Upgrade existing DSM with PMU	System Reliability	2006-10-20	2006-11-16	2007-06-04	2007-07-16	2007-11-07	2007-11-07	AML	2006	162,400	226,000	226,000	Construction in-progress
547	PMU Benalto 17S	Install a new PMU at Benalto. See Project 545 as the NID and PPS have been combined.	System Reliability	2006-10-20	2006-11-16	2007-05-17	2007-05-24	2007-09-01	2007-09-01	AML	2006	178,080	230,000	234,000	Complete - Awaiting Final Costs
570	Lubicon 780S Install 2-30 MVAR cap banks and all associated equipment and material	Lubicon 780S - Install 2 - 30 MVAR cap banks, 3-144 kV breakers and all associated equipment and material. Includes CT changes under project P569	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17	2007-08-10	2007-10-05	2008-04-15	2009-03-31	ATCO	2005	3,300,000	4,083,000	4,083,000	Construction in-progress
571	Friedenstal 800S Install 1-15 MVAR Cap Bank and all associated equipment and material	Friedenstal 800S Install 1-15 MVAR cap bank, 1-144 kV breaker and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17	2007-05-30	2007-07-27	2007-12-15	2007-12-15	ATCO	2005	2,750,000	2,016,700	2,016,700	Construction in-progress
572	Ksituan 754S - install 1-15 MVAR cap bank and all associated equipment and material	Ksituan 754S - Install 1 - 15 MVAR cap bank, 1-144 kV breaker and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17	2007-06-01	2007-07-27	2007-12-15	2007-11-22	ATCO	2005	2,750,000	1,324,500	1,324,500	In service date Nov 22/07
573	Goodfare 815S- install 2-15 MVAR cap banks and all associated equipment and material	Goodfare 815S Install 2-15 MVAR cap banks, 3-144 kV breakers and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2007-12-15	2008-06-30	ATCO	2005	3,300,000	2,784,600	2,784,600	Direct assigned to ATCO Nov 7, 2006.

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574	Big Mountain 845S - install 1-30 MVAR cap bank and all associate equipment and material	Big Mountain 845S Install 1 - 30 MVAR cap bank, 1-144 kV breaker and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17	2007-06-29	2007-09-25	2008-04-15	2007-12-15	ATCO	2005	1,665,000	2,304,000	2,304,000	Construction in-progress
575	Little Smoky 813S-install 3-30 MVAR cap banks and all associated equipment and material	Little Smoky 813S Install 3-30 MVAR cap banks, 5-144 kV breakers and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2008-12-15	2008-12-01	ATCO	2005	6,050,000	5,463,000	5,463,000	Direct assigned to ATCO Jan 24, 2007.
576	Louise Creek 809S - install 2nd 240/144 kV transformer	Louise Creek 809S Install 1 - 240/144 kV 200 Mva transformer and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17	2007-07-27	2007-08-29	2008-04-15	2008-04-30	ATCO	2005	4,000,000	2,699,000	2,699,000	Construction has started
577	Cranberry Lake 827S install 30 MVAR SVC and all associated equipment and material	Cranberry Lake 827S Install 1 - 0 to 30 MVAR SVC and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2008-12-15	2008-12-01	ATCO	2005	10,000,000	11,897,000	11,897,000	Direct assignment pending
596	Gregg River 476S Decommissioning	Salvage Gregg River 476S and remove a section of transmission line	Decommissioning or Salvage	2007-02-06	2007-03-02	2007-06-11	2007-07-11	2007-10-31	2007-12-31	AML	2006	355,925	484,800	484,800	Construction in-progress
598	240 kV line 9L15 - Brintnell 876S to Wesley Creek 834S	Single circuit 240 kV line from Wesley Creek 834S to Brintnell 876S. Install 2-300 MVA 240/144 kV transformers at Wesley Creek 834S, modifications at Brintnell 876S	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17	2007-06-19	2007-11-23	2010-03-31	2010-04-01	ATCO	2005	103,000,000	208,329,000	208,329,000	Under construction
599	134 km Double circuit 144 kV line 7L131/7L106-Wesley Creek 834S to New Meikle 905S station	Construct 134 km d/c 144 kV line 7L131/7L106-Wesley Creek 834S to a new Meikle 905S. Modifications at Wesley Creek 834S, construct new Meikle 905S station and modifications at Hotchkiss 788S	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2010-05-31	2010-04-01	ATCO	2005	64,000,000		64,000,000	Draft functional specs issued to ATCO for comment.

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600	105 km 144 kV line 7L133-Sulphur Point 828S to High Level 786S	Build 105km of single circuit 144 kV line 7L133 -Sulphur Point 828S to High Level 786S Modifications at Sulphur Point 828S and High Level 786S.	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2010-10-31	2011-04-01	ATCO	2005	18,000,000		18,000,000	Draft functional specs issued to ATCO for comment.
601	High Level 786S-Install -5 +30 MVar SVC	High Level 786S-install - 5 +30 MVar SVC and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2010-12-31	2010-06-30	ATCO	2005	10,000,000		10,000,000	Draft functional specs issued to ATCO for comment.
602	112km single circuit 144 kV line 7L113 - Ring Creek 853S to New Arcenceil 930S station	Construct 112 km single circuit 144 kV line 7L113 from Ring Creek 853S to Arcenceil 930S. Modifications at Ring Creek and Rainbow Lake 791S	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2011-03-31	2011-04-01	ATCO	2005	24,000,000		24,000,000	Draft functional specs issued to ATCO for comment.
603	Arcenceil 930S Station - Install -30 +50 MVar Synch condenser and all associated equipment	Arcenceil 930S - install - 30+50 MVar synch condenser and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2011-05-31	2011-09-01	ATCO	2005	12,000,000		12,000,000	Draft functional specs issued to ATCO for comment.
604	Arcenciel 930S - install 30 MVar cap bank and all associated equipment and material	Arcenciel 930S - install 30 MVar cap bank and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2011-06-30	2011-04-01	ATCO	2005	1,500,000		1,500,000	Draft functional specs issued to ATCO for comment.
605	Arcenceil 930S-install -20+30 MVar SVC and all associated equipment and material	Arcenceil 930S - install- 20+30 MVar SVC and all associated equipment and material. New Arcenceil substation	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2011-07-31	2011-09-01	ATCO	2005	13,500,000		13,500,000	Draft functional specs issued to ATCO for comment.
606	Little Smoky 813S - install 100 MVar SVC and all associated equipment and material	Little Smoky 813S - Install 100 MVar SVC and all associated equipment and material	Northwest Alberta Area Upgrade (EUB Approval # U2006-205)	2006-03-06	2006-08-17			2011-08-31	2009-07-01	ATCO	2005	14,500,000		14,500,000	Draft functional specs issued to ATCO for comment.

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608	AltaLink Benalto 17S Capacitor Bank Addition	Addition of 110 MVAR Capacitor Bank at Benalto 17S	Edmonton Reactive Power Supply (EUB NIF # 1471404)	2006-07-21	2006-10-30	2006-12-22	2007-02-13	2006-06-15	2007-06-15	AML	2006	2,990,000	2,930,000	2,930,000	Complete - Awaiting Final Costs
609	EPCOR Jasper Substation Capacitor Bank Addition	Addition of 110 MVAR Cap Bank at Jasper Substation	Edmonton Reactive Power Supply (EUB NIF # 1471404)	2006-07-21	2006-10-30	2007-04-02	2007-05-24	2007-08-31	2007-09-11	EPCOR	2006	2,138,000	2,577,711	2,577,711	Complete - Awaiting Final Costs
610	AltaLink Nisku 149S Capacitor Bank Addition	Install 30 MVAR Capacitor Bank at Nisku 149S	Edmonton Reactive Power Supply (EUB NIF # 1471404)	2006-07-21	2006-10-30	2007-04-30	2007-05-22	2007-08-21	2007-09-21	AML	2006	1,340,000	1,750,000	1,750,000	Complete - Awaiting Final Costs
611	EPCOR Clover Bar Substation Capacitor Bank Addition	Installation of 36 MVAR Capacitor Bank at Clover Bar Substation	Edmonton Reactive Power Supply (EUB NIF # 1471404)	2006-07-21	2006-10-30	2007-03-26	2007-05-31	2007-06-15	2007-10-05	EPCOR	2006	1,428,000	1,737,547	1,737,547	Complete - Awaiting Final Costs
612	AltaLink Bruderheim 127S Capacitor Bank Addition	Installation of 45 MVAR Capacitor Bank at Bruderheim 127S	Edmonton Reactive Power Supply (EUB NIF # 1471404)	2006-07-21	2006-10-30	2007-04-30	2007-07-04	2007-08-21	2007-09-13	AML	2006	1,740,000	1,850,000	1,850,000	Complete - Awaiting Final Costs
625	East Calgary POW Switch	POW switch to be installed on C1 (C3) and pre-insertion resistor to C2 (C4)	System Reliability	2007-06-27	2007-07-27			2008-05-31	2008-05-31	AML		434,500	434,500	434,500	Direct assigned to AML, September 19, 2007
631	ATCO Electric - St. Paul 144 kV Upgrade	Convert St. Paul 707S from 72kV to 144kV	System Reliability					2008-12-01	2008-12-01	ATCO					Planning Stage
640	Ellerslie-Clover Bar 240kV	Planning study - Upgrades in the Edmonton area	System Reliability	2007-10-30				2008-06-30	2008-06-30	AML	2007	17,155,417			Need Identification Document Filed.
										EPCOR	2007	1,899,463			
661	Rainbow Area UVLS	Implementation of settings at 786S, 832S, 828S and 791S for proposed under voltage load shedding scheme.	System Reliability	2007-01-22	2007-05-25			2007-08-01	2007-12-31	ATCO	2007	66,900	66,700	66,700	Direct assigned to ATCO May 29, 2007
665	170L Dynamic Thermal Line Rating	Install dynamic thermal line rating equipment on 170L between 396S Pincher Creek and 59S Peigan	System Reliability	2007-06-08	2007-07-05			2007-09-01	2008-03-31	AML	2007	467,467		467,467	Awaiting TFO's PPS
										TransAlta					

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673	ATCO - Fort McMurray 144 kV Capacity Increase	Addition of a new 260/144 kV source south of Fort McMurray	System Reliability					2008-12-01	2008-12-01	ATCO					Planning Stage
676	SCC Communication Upgrades	Installation of a reliable dedicated voice communications facilities from the AESO's SSC to the TFO's control centres.	System Reliability					2008-03-01	2008-03-01	AML					Planning Stage
686	Upgrade Protection Equipment at East Edmonton 38S	Modifications to the existing infrastructure at East Edmonton 38S to accommodate the 2007/2008 winter peak loading	System Reliability	2007-06-08	2007-07-05			2008-04-15	2008-04-15	AML	2007	386,762	380,700	380,700	Direct assigned to AML, September 20, 2007
688	Opening 947L Jumpers	Removal of jumpers on 946/947L - Ellerslie 89S to East Edmonton 38S	System Reliability			2007-04-25		2007-05-15	2007-06-08	AML			40,500	50,500	Complete - Awaiting Final Costs.
699	Livingstone TAU Rural Sub. No.2 (LSS2) Decommissioning	Livingstone TAU Rural Sub. No.2 (LSS2) Decommissioning of substation and removal of the 69kV line to structure	Decommissioning or Salvage	2007-10-05	2007-11-09			2007-12-31	2008-06-30	AML		127,000	127,000	127,000	Direct assigned to AML on November 22, 2007
705	Hangingstone 820S 25kV Capacitor Bank	Install new 25kV 5MVar Capacitor Bank to support system voltage	System Reliability	2007-07-12	2007-08-08			2008-12-31	2008-12-31	ATCO		1,607,996	1,371,000	1,607,996	Direct Assigned to ATCO, October 5, 2007
713	Edmonton-Calgary 500kV Line Delay Mitigation Measures	Edmonton-Calgary 500kV Line Delay Mitigation Measures	System Reliability					2999-12-31	2999-12-31	AML					Risk mitigation plan created and in progress.

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Notes:

1. Project Number: This is a number that is assigned by the AESO to each project that could potentially be Direct Assigned to a TFO by the AESO.
2. NID/NIF Filed: For Sytem Projects over \$10 million, this is the date that the AESO submits to the EUB a Need Information Document (NID) for approval as per the requirement of Section 34(1) of the Act. For System Projects under \$10 million or Customer Interconnections, this is the date the AESO submits to the EUB a Need Information Filing (NIF) for information purposes (The EUB will post the NIF on its website for comment, if no comments are received the EUB will notify the AESO and the AESO will then proceed with Direct Assigning the project to the TFO(s)).
3. NID/NIF Approved: This is the date the NID is approved by the EUB or for a NIF, this is typically 21 days after the NIF is filed for information purposes.
4. P and L Filed: This is the date that the TFO's Permit and License application (sometimes referred to as the Facility Application) is registered with the EUB. For Projects with mutiple applications, this is the date the first application is registered.
5. P and L Approved: This is the date that the TFO's Permit and License application is approved by the EUB. For Projects with mutiple applications, this is the date the last application is approved.
6. Planned ISD: In collaboration with the TFO, and taking into consideration the customers requirements, this is the initial in-service-date(ISD) that the AESO has established at the NID/NIF or Interconnection Proposal (IP) stage of the project.
7. Forecast or Actual ISD: This is the most recent information the TFO has provided to the AESO on the expected ISD. This information is typically provided to the AESO in the PPS (Proposal to Provide Service) or Project Monthly Reports provided by the TFO.
8. TFO: These are the Transmsion Facility Owners (TFO) who have provided and are responsible for the estimates, schedule, construction and costs for the project. The TFO's eligible are designated by service territory as defined in ISO Rule 9.1. Eligible TFO's are as follows;
 - AML: Altalink L.P.
 - ATCO: ATCO Electric Ltd
 - EPCOR: EPCOR Transmission Inc.
 - ENMAX: ENMAX Power Corporation
 - TAU: TransAlta Utilities Corp
 - Leth: City of Lethbridge
 - RD: City of Red Deer
9. Year NID Valid: This indicates the year of validity of the NID estimate (i.e. an estimate may be completed in 2006 \$'s but should include escaltion to put the estimate in the year the Project is expected to go in service)
10. NID/NIF Estimate: Is a +/- 30 % estimate that is provided by the TFO and accompanies the NID or NIF submitted to the EUB. The AESO uses the estimate to assist with project scope decisions. The The TFO's are required to submit the estimate in the format as per the requirements of the ISO Rule 9.1 avialable on the AESO WEB site.
11. PPS Estimate: Is a +20/-10% estimate that accompanies the TFO's Proposal to Provide Service's (PPS) document. Prior to the AESO Direct Assigning a project to a TFO, the TFO must submit a PPS to the AESO for review. The AESO will review the document c/w the estimate to ensure that the scope of the services provided in the PPS are as per requested. The TFO's are required to submit the PPS and estimate in the format as per the requirements of the ISO Rule 9.1 available on the AESO WEB site.
12. TFO Forecast Cost: This is the most recent cost estimate provided by the TFO. This could come from the TFO provided NID Estimate, PPS Estimate, Monthly Project Report (for projects over \$1 million), Project Variance Report or Final Cost Report.
13. Project Status: This provides a brief status of the project.