

AESO Transmission System Projects - Quarterly Report

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

Project Number	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.	Required to maintain reliability of supply to growing load in the Metiskow/Provost area.	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	ATCO portion completed, forecasted final cost received. AML portion not completed with pipeline mitigation work not finished.
301	Michichi Creek - Three Hills	70km of 138 kV transmission line from Michichi Creek to Three Hills, substation modifications at Michichi Creek and Three Hills and salvage of some existing 72 kV circuits.	Required to maintain reliability of supply to growing load in the Drumheller/Three Hills area.	2003-08-07	2004-03-05	2005-03-24	2005-05-18	2004-06-01	2006-02-28	ATCO	2003	9,530,000	14,100,000	12,880,938	Substantially complete.
379	Lethbridge - Close Eastern Loop	Lethbridge - close eastern 138 kV Loop	Required for reliability purposes	2005-02-24	2005-04-28	2005-08-22	2005-10-18	2006-06-15	2006-06-15	AML	2005	245,000	319,000	344,000	Project complete.
388	500KV KEG Conversion	South-KEG 500 kV Conversion (Part 1 of 2, see project 560 for part 2)	Edmonton-Calgary 500 kV Part 1-South-KEG 500 kV Conversion	2004-05-10	2005-04-22	2006-04-13	2006-06-28	2007-10-31	2007-10-31	AML	2004	36,152,000	66,331,373	66,331,373	Under construction
										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.	Project required to address capacity constraints for new wind generation interconnections, improve reliability and operability of the transmission system in South West Alberta.	2004-03-31	2005-05-17	2005-12-21		2006-04-01	2008-08-20	AML	2004	77,000,000	98,881,662	145,900,000	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 - Dec 21, 2005 Drywood - Jan 12, 2006 Magrath - Jan 12, 2006 Thermal Upgrade - Jan 16, 2006 Stirling/820L - Feb 8, 2006 Peigan to Lethbridge - March 1, 2006 Reconductor 170L - April 13, 2006 Pincher Creek Tfmr 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 Tfmr 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			249,000	249,000	
434	Calgary Area Capacitor Banks	Capacitor banks located at Sarcee, East Calgary and Janet substations.	New capacitor banks in the Calgary area to meet reliability requirements.	2004-11-25	2005-06-08	2005-09-15	2005-10-20	2006-02-28	2005-12-28	AML	2004	8,910,000	8,588,000	9,122,000	Complete- Awaiting final costs. Expected Feb 28,2007
447	788L Upgrade	Upgrade 138 kV line between Lac LaBiche and Heart Lake	To meet ratings requirements.	2004-12-01	2005-02-15	2005-02-18	2005-04-13	2005-03-01	2006-03-31	AML	2004	1,352,000	1,352,000	1,870,000	Complete - Awaiting final costs
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.	Required to maintain reliability to Downtown Edmonton.	2005-04-08	2005-07-14	2006-06-15		2008-05-31	2008-06-01	EPCOR	2005	34,900,000	54,304,760	80,643,259	Amendment to facilities application with new substation location filed in October 2006.

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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 Hangingstone 820S motorized disconnects and SCADA at Altar 875S and Crow 860S substations.	Project required to address power quality and reliability concerns on the 144 kV transmission system and connected stations between Parsons and McMillan	2006-04-26	2006-05-24	2007-02-01		2007-06-01	2007-06-01	ATCO	2005	1,656,324	2,532,000	2,532,000	Direct assigned to ATCO, Sept 26, 2006
560	500 kV North/South 1205L Transmission Line	Genesee to Langdon 500 kV Line (Part 2 of 2, see project 388 for Part 1)	Project required to relieve congestion and maintain reliability. Part 2- Genesee to Langdon 500 kV Line	2004-05-10	2005-04-22	2006-09-18		2009-10-31	2009-10-31	AML	2004	288,869,000	511,650,000	511,650,000	Facilities application hearing scheduled for March 12, 2007
										EPCOR	2004	10,255,000	16,201,577	16,201,577	
569	144 kV CT upgrades/changes on 7L23 and 7L61	144 kV CT Upgrades on 7L23 and 7L61 at Lubicon 780S, Mitsue 732S and Nipisi 796S to eliminate thermal restrictions on lines.	To increase power transfer capabilities on 7L23 and 7L61 - CT upgrades at Lubicon 780S, Nipisi 796S and Mitsue 732S are required	2006-03-06	2006-08-17			2008-12-15	2009-03-31	ATCO	2005	600,000		600,000	Functional spec issued Sept 5. PPS received mid December.
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	To provide voltage and var support - Part of the Northwest transmission development	2006-03-06	2006-08-17			2008-04-15	2009-04-01	ATCO	2005	3,300,000	4,083,000	4,083,000	PPS received from ATCO Dec 12/06.
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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2007-12-15	2007-12-15	ATCO	2005	2,750,000	2,016,700	2,016,700	Direct assigned to ATCO on Nov 7, 2006
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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2007-12-15	2007-12-15	ATCO	2005	2,750,000	1,324,500	1,324,500	Direct assigned to ATCO on Nov 7, 2006

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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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2007-12-15	2007-12-15	ATCO	2005	3,300,000	2,784,600	2,784,600	Direct assigned to ATCO Nov 7, 2006
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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2008-04-15	2008-04-30	ATCO	2005	1,665,000	2,304,000	2,304,000	PPS received on Dec 12/06. AESO reviewing
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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2008-12-15	2008-12-01	ATCO	2005	6,050,000	5,463,000	5,463,000	PPS received Dec 12/06. AESO reviewing
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	Part of the Northwest Transmission upgrade project filed on Mar 6/06	2006-03-06	2006-08-17			2008-04-15	2008-04-01	ATCO	2005	4,000,000		4,000,000	Request for Service (RFS) for PPS and equipment purchase. Final func spec issued to ATCO
577	Cranberry Lake 827S install 30 MVar SVC and all associated equipment and material	Cranberry Lake 827S Install 1 - 30 MVar SVC and all associated equipment and material	Part of the Northwest Transmission upgrade project filed on Mar 6/06	2006-03-06	2006-08-17			2008-12-15	2009-06-30	ATCO	2005	10,000,000		10,000,000	ATCO preparing a PPS
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 MVar 240/144 kV transformers at Wesley Creek 834S, modifications at Brintnell 876S	Reinforce the Northwest Alberta Transmission System for reliability	2006-03-06	2006-08-17			2010-03-31	2010-04-01	ATCO	2005	103,000,000		103,000,000	Draft functional specs issued to ATCO on Sept 5

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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 Meikel 905S. Modifications at Wesley Creek 834S, construct new Meikle 905S station and modifications at Hotchkiss 788S	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2010-05-31	2010-04-01	ATCO	2005	64,000,000		64,000,000	Draft functional spec issued to ATCO Sept 5
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.	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2010-10-31	2011-04-01	ATCO	2005	18,000,000		18,000,000	Draft Functional Spec issued to ATCO
601	High Level 786S - Install 5 +30 MVAR SVC	High Level 786S - install 5 +30 MVAR SVC and all associated equipment and material	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2010-12-31	2011-04-01	ATCO	2005	10,000,000		10,000,000	Draft func spec issued to ATCO
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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2011-03-31	2011-04-01	ATCO	2005	24,000,000		24,000,000	Draft func spec issued Sept 5
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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2011-05-31	2010-09-01	ATCO	2005	12,000,000		12,000,000	Draft func spec issued to ATCO
604	Arcenceil 930S - install 30 MVAR cap bank and all associated equipment and material	Arcenceil 930S - install 30 MVAR cap bank and all associated equipment and material	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2011-06-30	2010-09-01	ATCO	2005	1,500,000		1,500,000	Draft func spec issued to ATCO
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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2011-07-31	2010-09-01	ATCO	2005	13,500,000		13,500,000	Draft func spec issued to ATCO

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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	Part of the Northwest Transmission upgrade project	2006-03-06	2006-08-17			2011-08-31	2009-07-01	ATCO	2005	14,500,000		14,500,000	Draft functional spec issued on Sept 5, 2006
608	AltaLink Benalto 17S Capacitor Bank Addition	Addition of 110 MVar Capacitor Bank at Benalto 17S	Edmonton Area Reactive Power support	2006-07-21	2006-10-30	2006-12-20		2006-06-15	2007-06-15	AML	2006	2,990,000	2,930,000	2,930,000	P&L Application Filed
609	EPCOR Jasper Substation Capacitor Bank Addition	Addition of 110 MVar Cap Bank at Jasper Substation	Edmonton Area Reactive Power support	2006-07-21	2006-10-30			2006-06-15	2007-06-15	EPCOR	2006	2,138,000		2,138,000	Awaiting PPS
610	AltaLink Nisku 149S Capacitor Bank Addition	Install 30 MVar Capacitor Bank at Nisku 149S	Edmonton Area Reactive Power support	2006-07-21	2006-10-30			2006-06-15	2007-06-15	AML	2006	1,340,000		1,340,000	Awaiting PPS
611	EPCOR Clover Bar Substation Capacitor Bank Addition	Installation of 36 MVar Capacitor Bank at Clover Bar Substation	Edmonton Area Reactive Power support	2006-07-21	2006-10-30			2006-06-15	2007-06-15	EPCOR	2006	1,428,000		1,674,431	Awaiting PPS
612	AltaLink Shell Scotford 409S Capacitor Bank Addition	Installation of 54 MVar Capacitor Bank at Shell Scotford 409S	Edmonton Area Reactive Power support	2006-07-21	2006-10-30			2006-06-15	2007-06-15	AML	2006	1,740,000		1,740,000	Awaiting PPS
625	East Calgary POW Switch	POW switch to be installed on C1 (C3) and pre-insertion resistor to C2 (C4)	Upgrade required to mitigate communication interference					2007-05-31	2007-05-31	AML					Awaiting NID Estimate

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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 aavailable 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.