

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 240kV transmission line from Cordell to Metiskow, 240kv breaker additions at Cordell, new 240/138kV 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	2006-03-31	ATCO & AML	2003	35,000,000	36,260,000	36,260,000	95% completed. Small scope of work still to be completed at Cordell. Expected to be 100% completed Sept. 2006.
255	AESO - PMU Installation at Sundance 310P	Installation of Phasor Measurement Unit	WECC reliability requirement to meet power system monitoring needs.	2004-04-16	2004-06-03			2004-12-01	2005-06-30	AML	2004	139,000	139,000	320,000	Complete. Awaiting Final Costs.
256	AESO - PMU Installation at Langdon 102S	Installation of Phasor Measurement Unit.	WECC reliability requirement to meet power system monitoring needs.	2004-04-16	2004-06-03			2004-12-01	2005-06-01	AML	2004	168,000	168,000	218,000	Complete. Awaiting Final Costs.
257	AESO - PMU Installation at Amoco Empress 163S	Installation of Phasor Measurement Unit.	WECC reliability requirement to meet power system monitoring needs.	2004-04-16	2004-06-03			2004-12-01	2005-06-01	AML	2004	129,000	129,000	181,000	Complete. Awaiting Final Costs.
301	Michichi Creek - Three Hills	70km of 138kV transmission line from Michichi Creek to Three Hills, substation modifications at Michichi Creek and Three Hills and salvage of some existing 72kV 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. Awaiting scope change from ATCO Electric for installation of capacitor banks at BullPound
379	Lethbridge - Close Eastern Loop	Lethbridge - close eastern 138kV 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	Substantially complete. Minor telecom change required.
388	500KV North/South Transmission Line	South-KEG 500 kV Conversion (Part 1 of 2, see project 560 for part 2)	Part 1-South-KEG 500 kV Conversion	2004-05-10	2005-04-22			2007-10-31	2007-10-31	AML	2004	36,152,000	66,331,373	66,331,373	Direct assigned to AML and EPCOR ESTIMATE NOTES: NID estimate does not include E&S and transformer amendment PROJECT DETAILS: AESO Website @ http://www.aeso.ca/5998.html
										EPCOR	2004	2,562,000	3,065,766	3,065,766	
										EPCOR & TransAlta	2004	386,000	0	634,287	
										EPDC	2004	722,000	0	1,268,574	

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416	SW 240kV Transmission	Goose Lake to Peigan and Peigan to N. Lethbridge 240 kV lines and upgrades of existing 138 kV stations.	Project required to provide access for growing wind generation in the Pincher Creek area.	2004-03-31	2005-05-17	2005-12-21		2006-04-01	2008-03-31	AML	2004	68,100,000	91,035,000	101,349,690	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 Tformer Upgrade - June 9, 2006 Applications to be Filed: 138 kV line - 170L/725L Approved Applications: Magrath - Feb 6, 2006 Thermal Upgrade - Feb 15, 2006 ESTIMATE NOTES: NID Estimate does not include E&S, AFUDC & Contingency
431	Janet Capacitor Bank Breaker	New 138kV Capacitor Bank Breaker	Maintain reliability	2004-05-17	2004-07-29		2005-02-18	2004-12-10	2005-04-03	AML	2004	518,000	334,000	365,000	Complete. Awaiting Final Costs.
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.
447	788L Upgrade	Upgrade 138kV 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	Physically complete. AltaLink have to provide data and final costs.
466	Downtown Edmonton 240 kV Supply	240kV cable from Castle Downs to new McDougall substation, alterations at Victoria substation and interconnection between Victoria and McDougall substations.	Rrequired to maintain reliability to downtown Edmonton.	2005-04-08	2005-07-14			2008-05-31	2008-06-01	EPCOR	2005	34,900,000	54,304,760	54,304,760	Direction issued to EPCOR. Engineering contract scheduled to be awarded in June. Facilities application scheduled to be filed in June.

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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 moterized 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				2007-06-01	2007-06-01	ATCO	2005	1,656,324	0	1,656,324	Awaiting PPS
560	500KV North/South Transmission Line	Genesee to Langdon 500kV Line (Part 2 of 2, see project 388 for Part 1)	Project required to relieve congestion and maintain reliability. Part 2- Genesee to Langdon 500kV Line	2004-05-10	2005-04-22			2009-09-04	2009-09-04	AML	2004	288,869,000	0	360,212,000	Reviewing PPS from AltaLink and EPCOR ESTIMATE NOTES: NID estimate does not include E&S PROJECT DETAILS: AESO Website @ http://www.aeso.ca/5998.html
										EPCOR	2004	10,255,000	0	12,788,000	
569	144 kV CT upgrades/chan ges on 7L23 and 7L61	144 kV CT Upgrades on 7L23 and 7L61at 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				2007-12-15	2007-12-01	ATCO	2005	600,000	0	600,000	Need document filed Mar 6/06. Request for Service (RFS) for PPS issued to ATCO. ATCO reviewing functional spec.
570	Lubicon 780S Cap Bank	Install 2 - 30 Mvar cap banks At Lubicon 780S	To provide voltage and var support - Part of the Northwest transmission development	2006-03-06				2007-12-15	2008-04-01	ATCO	2005	3,000,000	0	3,000,000	Need document for Nothwest Upgrade filed on Mar 6/06. ATCO reviewing the functional spec. RFS for PPS issued and RFS for equipment purchase
571	Friedenstal 800S 1-15 mvar Cap Bank	Install 1 - 15 Mvar cap bank	Part of the Nothwest Transmission upgrade project	2006-03-06				2007-12-15	2007-12-01	ATCO	2005	2,500,000	0	2,500,000	Need for the Northwest Upgrade project filed on Mar 6/06. ATCO reviewing the functional spec. Request for Service (RFS) for PPS issued and RFS for equipment purchase
572	Ksituan 754S Cap Bank	Install 1 - 15 Mvar cap bank	Part of the Nothwest Transmission upgrade project	2006-03-06				2007-12-15	2008-07-01	ATCO	2005	2,500,000	0	2,500,000	Need for Northwest Transmission upgrade project filed on Mar 6/06. ATCO reviewing the functional spec. Request for Service (RFS) for PPS issued and RFS for equipment purchase
573	Goodfare 815S Cap Banks	Install 2 - 15 Mvar cap banks	Part of the Northwest Transmission upgrade project	2006-03-06				2007-12-15	2007-12-15	ATCO	2005	3,000,000	0	3,000,000	Need filed for Northwest Transmission upgrade project on Mar 6/06. ATCO reviewing the functional spec. Request for Service (RFS) for PPS issued and RFS for equipment purchase

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574	Big Mountain 845S Cap Bank	Install 1 - 30 Mvar cap bank	Part of the Northwest Transmission upgrade project	2006-03-06				2007-12-15	2008-07-01	ATCO	2005	1,500,000	0	1,500,000	Need filed for Northwest Transmission upgrade project on Mar 6/06. ATCO reviewing the functional spec. Request for Service (RFS) for PPS issued and RFS for equipment purchase
575	Little Smoky 813S Cap Banks	Install 3 - 30 Mvar cap banks	Part of the Northwest Transmission upgrade project	2006-03-06				2007-12-15	2008-12-01	ATCO	2005	5,500,000	0	5,500,000	Need for Northwest Transmission upgrade project filed on M. Request for Service (RFS) for PPS issued and RFS for equipment purchase
576	Louise Creek 809S - install 2nd transformer	Install 1 - 240/144 kV 200 Mva transformer	Need for Northwest Transmission upgrade project filed on Mar 6/06	2006-03-06				2007-12-15	2007-12-15	ATCO	2005	4,000,000	0	4,000,000	Need for Northwest Transmission upgrade project filed on Mar 6/06. ATCO reviewing the functional spec. Request for Service (RFS) for PPS issued and RFS for equipment purchase
577	Cranberry Lake 827S install 30 MVAR SVC	Install 1 - 30 Mvar SVC	Need for Northwest Transmission upgrade project filed on Mar 6/06	2006-03-06				2007-12-15	2008-12-01	ATCO	2005	10,000,000	0	10,000,000	Need for Northwest Transmission upgrade project filed on Mar 6/06. ATCO reviewing the functional spec. Request for Service (RFS) for PPS issued - no RFS issued for SVC.

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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.