



## AESO Transmission Customer (Generation & Load) Projects - Quarterly Report

Date **December 15, 2005**

Please refer to the end of this report for terminology definitions

Project Number	Project Name	TFO	Project Description	Planned ISD	NID Estimate (\$'s x 1000)	NID Filed	NID Approved	PPS Estimate (\$'s x 1000)	P&L Application Filed	P&L Application Approved	Forecast Cost (\$'s x 1000)	Actual or Current Forecast ISD	Project Status
<b>Category A: Projects Greater Than \$10 Million</b>													
343	Bassano Substation	AML	New Bassano 138/25kV substation to serve growing load in the Bassano area.	2005-Jun	\$9,800 (2004 \$)	08-Sep-04	10-May-05	\$12,200	10-Jun-05	Pending	\$12,200	May, 2006	Direct Assigned to AML.
385	ATCO Terasen Ribstone Creek	ATCO	Install three 138kV breakers at Monitor 744S, construct 60kms of 138kV & establish new 138/4kV POD at Ribstone Creek pumpstation.	2005-Feb	\$11,600 (2004 \$)	15-Apr-04	16-Sep-04	\$13,760	5-Nov-04	16-Feb-05	\$13,760	31-Jan-06	Customer portion has been energized. Some related work remains.
387	Terasen - Peace Butte Station	AML	New load of 6MW at Peace Butte Stn. Install two 138kV breakers at Bullshead 523S, construct 25kms 138kV & establish Peace Butte 138/4kV POD.	2005-Mar	\$9,700 (2003 \$)	24-Mar-04	01-Oct-04	\$12,860	25-Oct-04	21-Jan-05	\$11,400	31-Jan-06	Customer portion has been energized. Some related work remains.
423	CNRL Horizon Project 240 kV Connection	ATCO	240kV Interconnection to serve Oilsands Load.	2007-Mar	\$13,800 (2004 \$)	22-Dec-04	22-Apr-05	\$15,048	Pending	Pending	\$15,048	2-Apr-07	Direct Assigned to ATCO.
433	Fortis Christina Lake	AML	New 240 / 25kV Substation (40MW load), 240kV modifications to Leismer substation, 25km of 240kV line.	2006-Sep	\$21,600 (2005 \$)	18-Feb-05	28-Jul-05	\$27,994	14-Sep-05	Pending	\$27,994	01-Sep-06	Direct Assigned to AML.
444	MEG Energy 240kV Interconnection	AML	New 240kV line to connect MEG Energy oil sands project in the Christina Lake area.	2006-Sep	\$10,654 (2005 \$)	Joint with P&L	Joint with P&L	\$10,654	19-Sep-05	Pending	\$10,654	01-Sep-06	Direct Assigned to AML.

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<b>Category B: Projects \$5 Million to \$10 Million</b>													
308	ENMAX 26S substation modifications	ENMAX	ENMAX 26S New Substation Construction to accommodate load growth.	2006-Sep	\$6,350 (2005 \$)	10-Mar-05	25-Nov-05	Pending	Pending	Pending	\$6,350	1-Sep-05	Direct Assignment Pending.
333	ENMAX #7 Sub (new)	ENMAX	New 138/25kV substation to accommodate load growth.	2004-Nov	\$4,900 (2003 \$)	03-Feb-04	20-Apr-04	\$5,310	04-May-04	31-May-04	\$5,038	8-Aug-05	Complete. Awaiting Final Costs.
347	Petro Canada new 138/13.8kV substation	AML	New substation 138/13.8kV facilities to accommodate new load.	2005-Aug	\$5,200 (2004 \$)	23-Jun-04	26-Jul-04	\$6,400	19-Nov-04	23-Dec-04	\$5,960	13-Aug-05	Complete. Awaiting Final Costs.
360	Fortis - Viscount (St. Albert)	AML	New substation (138kV/25kV) to accommodate load growth.	2005-Apr	\$5,600 (2004 \$)	23-Jun-04	23-Dec-04	\$4,852	24-Jan-05	9-Mar-05	\$4,786	17-Sep-05	Complete. Awaiting Final Costs.
386	Terasen - Wardlow/Jenner	AML	New load (3 to 6MW) at Jenner Station. 25kV breaker and 25/138kV LTC at Jenner 275S, 25kms 138kV & establish 138/4kV POD at Wardlow pumpstation.	2005-Feb	\$9,100 (2004 \$)	14-Apr-04	02-Nov-04	\$10,350	15-Nov-04	23-Dec-04	\$8,152	31-Jan-06	Customer portion has been energized. Some related work remains.
420	Air Products Edmonton Refinery	AML	New substation facilities to supply 15MVA of new load.	2005-Jul	\$5,200 (2004 \$)	29-Jun-04	05-Oct-04	\$6,300	5-Nov-04	20-Dec-04	\$5,820	18-Aug-05	Complete. Awaiting Final Costs.
422	TransCanada Edson Gas	AML	New Marlboro 348S 138/4.16kV Substation to support customer load.	2005-Jun	\$5,350 (2004 \$)	05-Jul-04	19-Oct-04	\$8,220	-	15-Feb-05	\$8,620	12-Dec-05	Facilities under construction.
425	ENMAX No. 6 Substation	ENMAX	New 138kV distribution point of delivery to address DFO reliability needs.	2006-Jun	\$6,050 (2004 \$)	08-Sep-04	04-Mar-05	\$5,955	Pending	Pending	\$5,955	30-Jun-06	Direct Assigned to ENMAX.
432	Nexen/Opti Long Lake 144 kV Connection	ATCO	Required to supply growing load of Nexen/Opti Long Lake Project.	2006-Apr	\$7,300 (2004 \$)	21-Dec-04	19-Apr-05	\$7,569	5-Oct-05	Pending	\$7,569	1-Apr-06	Direct Assign to ATCO Electric.
440	Fortis- New Dry Creek (Airdrie) Sub	AML	New 138/25kV Substation to supply growing Airdrie load.	2005-Dec	\$7,000 (2004 \$)	23-Dec-04	13-May-05	Pending	Pending	Pending	\$7,000	01-Dec-06	Direct Assign Pending.
443	New Whitemud-155S 138/25 kV substation	AML	New 138/25kV substation to support load growth.	2005-Dec	\$4,900 (2005 \$)	22-Oct-04	02-Sep-05	\$7,115	Pending	Pending	\$7,115	18-Aug-05	Direct Assign Pending.

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<b>Category C: Projects \$1 Million to \$5 Million</b>													
307	Norcen-812S 144/25 kV Station Upgrade	ATCO	Station upgrade to meet load growth.	2004-Dec	\$1,660 (2004 \$)	21-May-04	09-Aug-04	\$1,620	5-Jul-05	20-Jul-05	\$1,620	31-Jan-06	Facilities under construction.
341	Briker 880S New Substation	ATCO	New Substation in Lloydminster area to accommodate load growth.	2004-Oct	\$3,200 (2004 \$)	24-Feb-04	09-Aug-04	\$4,600	31-May-05	12-Sep-05	\$4,600	22-Dec-05	Facilities under construction.
342	Suncor Magrath Wind Energy Project	AML	Transmission upgrades to supply 30MW wind farm project near Magrath.	2004-Jun	\$2,200 (2003 \$)	09-Feb-04	16-Apr-04	\$2,627	30-Apr-04	10-Jun-04	\$3,124	31-Jul-04	Project Complete.
383	Leming Lake - 715	ATCO	Transmission facilities to accommodate 15MW load of SAGD Commercial Project.	2006-Mar	\$3,000 (2004 \$)	15-Nov-04	22-Mar-05	\$3,141	29-Jun-05	18-Jul-05	\$3,141	31-May-06	Facilities under construction.
356	Vision Quest Summerview Windfarm	AML	138kV interconnection to supply 68MW wind farm near Pincher Creek.	2004-May	\$5,330 (2003 \$)	09-Feb-04	22-Apr-04	\$3,836	-	-	\$3,836	1-Sep-04	Complete. Awaiting Final Costs.
358	Fortis - Bretona Substation	AML	New Substation (138kV/25kV) to accommodate load growth.	2004-Dec	\$4,100 (2004 \$)	26-Mar-04	14-Jun-04	\$4,584	4-Aug-04	3-Dec-04	\$4,836	17-Jun-05	Complete. Awaiting Final Costs.
361	Fortis - Suffield 895S	AML	PH 1- Regulator upgrade, feeder addition; PH II - transformer and 138 kV breaker additions to meet load growth.	PH 1-Oct, 03 PH 2 - Oct, 04	\$3,400 (2003 \$)	17-Jul-03	12-Sep-03	PH 1 - \$721 PH 2 - \$3,778	5-May-05	21-Oct-05	PH 1 - \$749 PH 2 - \$3,778	PH1-July, 03 PH 2-Nov, 05	PH 1 Completed; PH 2 Under construction.
375	Blueridge 701S	AML	Transformer and interrupting device upgrade to supply new load.	2006-May	\$2100 (2004 \$)	10-Jun-04	20-Jul-05	\$2,080	6-May-05	7-Jun-05	\$2,273	8-May-06	Facilities under construction.
391	GW Power Soderglen Wind	AML	Transmission facilities to supply 70.5MW Wind Project.	2005-Sep	\$3500 (2005 \$)	06-Jul-05	Pending	Pending	Pending	Pending	\$3,500	TBD	Awaiting Need Approval.
409	East Industrial-E52S Substation 240/25 kV Capacity Increase	EPCOR & AML	Upgrades to existing sub (2nd transformer and 240kV line tap) to improve supply reliability.	2006-Jun	\$3,600 (2004 \$)	23-Aug-04	22-Oct-04	EPCOR-\$3,921 AML-\$434	Pending	Pending	EPCOR-\$3,921 AML-\$434	15-Jun-06	Direct Assigned to EPCOR and AML.
435	Air Liquide 337S	AML	Transformer addition to support load growth.	2005-Jul	\$1,320 (2004 \$)	27-Aug-04	05-Oct-04	\$2,074	29-Apr-05	1-Jun-05	\$2,065	20-Jul-05	Complete. Awaiting Final Costs.
452	Blumenort 832S Capacity Increase	ATCO	Transformer addition to meet load growth; Capacity increase.	2005-Oct	\$2,116 (2004 \$)	15-Jun-05	Pending	Pending	Pending	Pending	Pending	31-Dec-05	Awaiting Need Approval.
454	Fortis-Ross Creek 906S Capacity Increase	AML	Transformer addition to meet load growth.	2006-Apr	\$2,000 (2005 \$)	20-May-05	27-Jul-05	\$2,940	22-Nov-05	Pending	\$2,940	1-May-06	Awaiting P & L Approval.
467	ATCO Seal Lake 869S Capacity Increase	ATCO	Transformer addition to meet load growth.	2005-Dec	\$2,282 (2005 \$)	13-Sep-05	Pending	\$2,459	Pending	Pending	\$2,459	31-Jan-06	Awaiting Need Approval.

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<b>Category D: Projects Less than \$1 Million</b>													
179	Kettles Hill Windfarm	AML	138kV interconnection to serve new 63MW wind farm near Pincher Creek.	2005-Dec	\$1,292 (2005 \$)	14-Jul-04	09-Mar-05	\$968	25-Mar-05	08-Jun-05	\$980	23-Nov-05	Under Construction Phase 1- 9 MW in Dec 31, 2005 Phase 2- 54 MW in July 31, 2006
401	Terasen - Gainford Pumpstation	AML	Gainford Pumpstation load (3.1MW). Replace transformer with 7.5MVA unit.	2004-Aug	\$900 (2004 \$)	25-Feb-05	15-Apr-05	\$352	8-Jun-04	28-Jul-04	\$395	19-Aug-05	Complete.
404	Ross Creek 906S salvage	AML	Salvage TX821, TX822, TX823, TX5 & TX4045. Rebuild temp 13.8kV bus u/g.	2004-Jul	\$280 (2004 \$)	03-May-04	06-May-04	\$393	-	2-Nov-04	\$221	12-May-05	Complete. Final costs under review.
405	Elk Valley Coal	AML	T-tap from 138kV line for Customer Interconnection	2005-Feb	\$185 (2004 \$)	15-Nov-04	17-Dec-04	\$199	1-Feb-05	1-Mar-05	\$199	1-Apr-05	Complete. Awaiting Final Costs.
408	Fortis -Ft Saskatchewan 54S	AML	New 25KV Breaker to maintain distribution reliability.	2004-Oct	\$425 (2004 \$)	08-Apr-04	14-Jun-04	\$392	-	-	\$391	21-Jul-05	Completed.
412	Dome-665S Substation	EPCOR	New 15kV Circuit Breaker to maintain distribution reliability.	2005-Jul	\$69 (2004 \$)	26-May-04	29-Jun-04	\$70	23-Aug-04	16-Sep-04	\$70	18-Jul-05	Complete. Awaiting Final Costs.
413	Garneau Substation	EPCOR	New 15kV Circuit Breaker to maintain distribution reliability.	2004-Jun	\$70 (2004 \$)	30-Apr-04	20-Oct-04	\$70	14-Jun-05	11-Jul-05	\$70	31-Dec-05	Facilities under construction.
421	North Calder-37S Bkr addition	AML	New 25kV breaker addition at North Calder 37s to accommodate EPCOR load growth.	2005-Sep	\$452 (2004 \$)	23-Jun-04	23-Dec-04	\$478	-	-	\$478	01-Dec-05	Direct assigned to AML.
438	Oyen - 767S Substation capacity upgrade	ATCO	Upgrades (fans, regulator).	2004-Nov	\$191 (2004 \$)	24-Aug-04	02-Sep-04	\$191	12-Nov-04	21-Jan-05	\$191	16-May-05	Complete. Awaiting Final Costs.
464	Pincher Creek 25kV Voltage Regulator	AML	Replace 25kV Voltage regulator to support load growth.	2005-Oct	\$195 (2005 \$)	Pending	Pending	\$215	-	-	\$215	15-Dec-05	Awaiting EUB Approval.
443	Nisku Breaker Replacement	AML	25kV breaker replacement at Nisku 149S to avoid overloads.	2005-Oct	\$155 (2005 \$)	-	-	-	27-Sep-05	20-Oct-05	\$155	13-Nov-05	Complete. Awaiting Final Costs.
486	Mercer Hill-728S substation	ATCO	Add fans to transformer and replace regulator to support load growth.	2005-Nov	\$250	30-Sep-05	Pending	Pending	Pending	Pending	\$250	31-May-06	Awaiting Need Approval.

**Definitions:**

ISD: In-Service-Date  
PPS: Proposal to Provide Service  
NID: Needs Identification Document  
P&L: Permit and License  
TFO: Transmission Facility Operator  
AML: AltaLink Management Ltd.  
EPCOR: EPCOR Transmission  
WECC: Western Electric Coordinating Council  
(-): Information unavailable at time of publication