

# AESO Transmission System Projects - Quarterly Report

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



Program Name and Description	Need Filing	Need Filed	Need Approved	Need Filing Status	Facility Proposal Filing	TFO	Facility Filed	Facility Approved	Energization	Forecast ISD	Forecast Cost	Facility Filing Status
<b>9L66</b> 9L66 240kV Line Relocation  Relocate 9L66	1 9L66 240kV Line Relocation	2009-09-17		AUC Reviewing NID	<b>943</b> 9L66 240kV Line Relocation	ATCO	2009-09-25		1 All Equipment	2010-07-15	\$1,194,500	AUC Reviewing Facilities Application
<b>AIRD</b> Mid & Long Range Airdrie Area System Development  Airdrie Area System Upgrades - New Cap Banks, New PODs	1 Mid & Long Range Airdrie Area System Development	2009-07-10		AUC Reviewing NID	<b>1007</b> Mid Term Solution-Cap Banks Addition	AML	2009-07-28		1 All Equipment	2010-03-17	\$4,729,000	AUC Reviewing Facilities Application
<b>CBDN</b> Calgary Business District  Calgary Business District 138 kV Cable Replacement	1 Calgary Business District	2009-08-10		AUC Reviewing NID	<b>664</b> ENMAX CBD - Central Business District 138kV Cable Upgrades	ENMAX	2009-09-10		1 1.82 and 1.84L 2 1.83 and 1.85L	2011-03-24 2012-03-22	\$62,368,730	AUC Reviewing Facilities Application
<b>ECLB</b> Ellerslie-Clover Bar 240kV  Reconfiguration of 240kV transmission line 946L/947L.	1 Ellerslie-Clover Bar 240kV	2008-04-08	2008-07-16	NID Approved	<b>951</b> Ellerslie-Clover Bar Part 1 <b>952</b> Ellerslie-Clover Bar Part 2	AML EPCOR	2009-02-27 2009-03-31	2009-12-18 2009-12-18	1 All Equipment 1 All Equipment	2010-06-30 2010-06-30	\$14,538,524 \$2,043,508	Facilities Application Approved Facilities Application Approved
<b>ERLU</b> Edmonton Region 240kV Line Upgrades  Upgrade 240kV transmission lines in Edmonton area; add one 240kV phase shifter at Dover substation	1 Edmonton Region 240 kV Line Upgrades	2008-08-26	2009-02-24	NID Approved	<b>953</b> AML Keephills substation addition <b>955</b> EPCOR Jasper, Petrolia, 1044EL, 1045EL <b>957</b> ATCO phase shifter <b>959</b> TransAlta 902L, 1043L <b>1055</b> AML 12 km new 240kV line for 1043L <b>1056</b> AML rebuild 50km 1043L (old 904L), Jaspertap <b>1057</b> AML 902L restrung <b>1058</b> AML 1045L, 909L restrung	AML EPCOR ATCO TransAlta AML AML AML	2009-11-06  2009-09-14  2009-09-13		1 All Equipment 1 All Equipment 1 PST 1 All Equipment 1 12km new 1043L 1 1043L 1 902L restrung 2 913L restrung 1 1045L (the old 908L) 2 909L restrung	2011-06-30 2011-06-30 2011-06-30 2011-06-30 2011-03-22 2011-03-22 2011-04-22 2011-04-17 2010-04-20 2010-04-20	\$114,584,247 \$2,800,000 \$26,312,608 \$9,623,710 \$0 \$0 \$0 \$0	AUC Reviewing Facilities Application TFO Preparing Facilities Application AUC Reviewing Facilities Application TFO Preparing Facilities Application TFO Preparing Facilities Application TFO Preparing Facilities Application TFO Preparing Facilities Application TFO Preparing Facilities Application AUC Reviewing Facilities Application

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ESCV ENMAX South 69kV Conversion  Original P626 for NID and Phase I	1	ENMAX South 69kV Conversion	2009-04-09	AUC Reviewing NID	931	ENMAX South 69kV Conversion Phase II	ENMAX		1	All Equipment	2011-01-17	\$5,000,000	Finalizing Functional Spec
					932	ENMAX South 69kV Conversion to 138kV Phase III	ENMAX		1	All Equipment	2012-09-28	\$7,000,000	Finalizing Functional Spec
					969	ENMAX South 69kV Conversion Stage 1	ENMAX	2009-04-16	1	All Equipment	2011-05-10	\$10,475,758	AUC Reviewing Facilities Application
HATD Hanna Area Transmission Development  Transmission development in Hanna, Sheerness and Battle River	1	Hanna Area Transmission Development	2009-08-14	AUC Reviewing NID	977	Youngstone 772S Capacitor bank addition	ATCO		1	Youngstone 772S Capacitor Bank	2012-04-01	\$1,220,000	TFO Preparing Estimates
					978	Battle River 757S Capacitor Bank addition	ATCO		1	Battle River 757S Capacitor Bank	2012-04-01	\$1,220,000	TFO Preparing Estimates
					979	New Lanfine 240/144kV substation	ATCO		1	Lanfine 959S substation 240/144kv	2012-09-30	\$51,000,000	TFO Preparing Estimates
					980	Lanfine 959S 200MVAR SVC	ATCO		1	Lanfine 959S 200MVAR 144kV SVC	2012-09-30	\$43,000,000	TFO Preparing Estimates
					982	Lanfine-Oyen 144kV S/C Line 7L132	ATCO		1	Lanfine-Oyen 144kV S/C Line	2012-06-30	\$4,000,000	TFO Preparing Estimates
					995	Relocate 7L98 Oyen 767S - Lanfine 959S	ATCO		1	Relocate 7L98 Oyen 767S - Lanfine 959S	2012-09-30	\$2,000,000	TFO Preparing Estimates
					996	Oakland 946S 240kV S/S combined with Anderson-Oakland line	ATCO		1	Oakland 946S 240kV S/S combined with Anderson-Oakland line	2012-09-30	\$14,000,000	TFO Preparing Estimates
					998	Oakland-Lanfine 240kV S/C Line 9L924	ATCO		1	Oakland-Lanfine 240kV SC Line	2012-09-30	\$62,000,000	TFO Preparing Estimates
					999	Coyote Lake 963S 240kV S/S combined with Oakland-Coyote line	ATCO		1	Coyote Lake 963S 240kV S/S combined with Oakland-Coyote line	2012-09-30	\$38,000,000	TFO Preparing Estimates
					1000	Coyote Lake 963S - Michichi Creek 802S 144kV SC Line 7L128	ATCO		1	Coyote Lake 963S - Michichi Creek 802S 144kV SC Line	2012-06-30	\$9,000,000	TFO Preparing Estimates
					1001	Pemukan 932S 240 kV Substation	ATCO		1	Pemukan 932S 240kV Substation	2012-09-30	\$62,000,000	TFO Preparing Estimates
					1003	New Lanfine-Pemukan 240kV S/C Line 9L46	ATCO		1	New Lanfine-Pemukan 240kV S/C Line	2012-09-30	\$50,000,000	TFO Preparing Estimates
					1004	Pemukan 200MVAR SVC addition	ATCO		1	Pemukan 200MVAR SVC addition	2017-09-30	\$45,000,000	TFO Preparing Estimates
1011	Hansman Lake - Pemukan 240kV S/C Line 9L966	ATCO		1	Hansman-Pemukan 240kV S/C Line 9L966	2012-09-30	\$44,000,000	TFO Preparing Estimates					
1013	Pemukan 932S - Monitor 774S 144kV S/C Line 7L127	ATCO		1	Pemukan 932S - Monitor 774S 144kV S/C Line	2012-09-30	\$5,000,000	TFO Preparing Estimates					
1015	Relocate 7L79 line from Monitor 774S - Pemukan 932S	ATCO		1	Relocate 7L79 line from Monitor 774S - Pemukan 932S	2012-09-30	\$4,000,000	TFO Preparing Estimates					
1021	Heatburg 948S - Three Hills-Nevis 144kV D/C Line 7L16/7L159	ATCO		1	Heatburg 948S - Three Hills-Nevis 144kV D/C Line	2012-06-30	\$7,000,000	TFO Preparing Estimates					

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					1022	Cornish Lake 954S - Michichi-Three Hills 144kV DC Line 7L25	ATCO		1	Cornish Lake 954S - Michichi-3Hills 144kV D/C Line	2012-08-30	\$11,000,000	TFO Preparing Estimates			
					1023	Stettler 769S - Nevis 768S 144kV S/C Line 7L143	ATCO		1	Stettler 769S - Nevis 768S 144kV S/C Line	2012-06-30	\$8,000,000	TFO Preparing Estimates			
					1024	Nilrem 574S combined with D/C 240kV 953L -1047L(ex 953L)	AML		1	Nilrem 574S combined with D/C 240kV 953L - 1047L(ex 953L)	2011-10-01	\$45,000,000	TFO Preparing Estimates			
					1025	Tucuman 478S combined with D/C 138kV 679L-680L	AML		1	Tucuman 478S combined with D/C 138kV 679L-680L	2011-10-01	\$2,500,000	TFO Preparing Estimates			
					1026	Hansman Lake 650S SVC addition	AML		1	Hansman Lake 650S SVC addition	2012-09-30	\$55,000,000	TFO Preparing Estimates			
					1027	New 240 kV line 966L from Pemukan 932S -Hansman Lake 650S	AML		1	New 240 kV line 966L from Pemukan 932S - Hansman Lake 650S	2012-09-30	\$18,000,000	TFO Preparing Estimates			
					1028	New 240kV line 1060L from Ware Junction 132S-West Brooks 28S	AML		1	New 240kV line 1060L from Ware Junction 132S-West Brooks 28S	2012-09-30	\$58,000,000	TFO Preparing Estimates			
<b>NCTD</b>	North Central Transmission Development	1	North Central Transmission Development	2009-07-08	AUC Reviewing NID	1005	2x 25kV Breaker addition at Fieldgate	ATCO	2009-09-10	1	All Equipment	2010-06-18	\$1,196,000	AUC Reviewing Facilities Application		
	Transmission System Upgrade in North Central Area.					1006	ATCO Slave Lake-High Prairie 144kV System Upgrade	ATCO		1	All Equipment	2012-12-31	\$50,760,000	Waiting for Need Phase Completion		
<b>NWTD</b>	North West Transmission Development	1	North West Transmission Development	2006-03-06	2006-08-17	NID Approved	598	9L15-240kV Wesley Creek 834S to Brintnell 876S. 2x300 MVA Tx	ATCO	2007-06-19	2007-11-23	1	Wesley Creek 834S Energize Bkr 701	2009-09-03	\$208,329,000	Facilities Application Approved
	NW Transmission Development									2	Wesley Creek 834S Energize 902T,903,503	2009-12-19				
										3	Wesley Creek 834S Energize 904, 902	2010-02-26				
										4	Wesley Creek 834S Energize 909, 909R	2009-12-18				
										5	Energize 9L15	2009-12-18				
										6	Energize 901 and 901T	2010-02-26				
					599	7L131/7L106 144kv D/C line Wesley Creek to Meikle 905S & CTs	ATCO	2008-07-29	2008-12-19	1	All Equipment	2010-09-30	\$193,189,000	Facilities Application Approved		
					600	7L133-144 kv S/C line Sulphur Point 828S to High Level 786S	ATCO	2009-05-19	2009-09-11	1	All Equipment	2011-04-01	\$77,558,000	Facilities Application Approved		
					601	High Level 786S +/- 30 MVAR SVC	ATCO	2009-04-14	2009-09-01	1	All Equipment	2010-06-30	\$12,298,000	Facilities Application Approved		
					602	7L113-144kv S/C line Ring Creek 853S to New Arcenciel 930S	ATCO			1	All Equipment	2012-04-30	\$121,246,000	TFO Preparing Facilities Application		
					603	Arcenciel 930S -30 +50 MVAR synch cond Under review	ATCO			1	All Equipment	2012-04-30	\$21,402,000	TFO Preparing Facilities Application		
					605	Arcenciel 930S +/- 30 MVAR SVC	ATCO			1	All Equipment	2011-09-01	\$12,050,000	TFO Preparing Facilities Application		

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					606 Little Smoky 813S-install +/- 100MVAR SVC & 2-144kV breakers	ATCO	2009-06-29	2009-06-29	1 Energize bkrs 717 and 718 2 Energize SVC	2009-09-03 2010-03-30	\$21,554,000	Facilities Application Approved
<b>SATD</b> Southwest Alberta Transmission Development  Transmission development in Goose Lake - Peigan and North Lethbridge	1 Southwest Alberta Transmission Development	2004-03-31	2005-05-17	NID Approved	970 D/C 240kV Line from Goose Lake 103S to Peigan 59S	AML	2004-04-05	2009-05-11	1 All Equipment	2010-06-24	\$199,000,000	Facilities Application Approved
					971 D/C 240kV line from Peigan 59S and N.Lethbridge 370S	AML	2006-02-10	2009-05-11	1 All Equipment	2010-05-26		Facilities Application Approved
					972 138kV Tie Line between 170L and 725L	AML	2008-11-14	2009-07-07	1 All Equipment	2010-06-24		Facilities Application Approved
					973 Reconductoring 2km of 616L (170L) line	AML	2006-04-13	2009-05-11	1 All Equipment	2010-06-24		Facilities Application Approved
<b>SATR</b> Southern Alberta Transmission Reinforcement	1 Southern Alberta Transmission Reinforcement	2008-12-30	2009-09-17	NID Approved	882 Stage 1 - 911L Line Replacement	AML			1 All Equipment	2014-04-15	\$345,100,000	TFO Preparing Facilities Application
					883 Stage 1 - Milo Junction Switching Station	AML	2009-12-21		1 All Equipment	2011-01-31	\$29,700,000	AUC Reviewing Facilities Application
					884 Stage 1 - PST Addition at Coleman 799S	AML			1 All Equipment	2012-11-15	\$13,300,000	TFO Preparing Facilities Application
					886 Stage 1 - 240kV lines from West Brooks to E. Med Hat S/S	AML			1 All Equipment	2013-03-31	\$222,500,000	TFO Preparing Facilities Application
					887 Stage 1 - East Med Hat to Whitla 240 kV Transmission Line	AML			1 All Equipment	2013-03-31	\$194,300,000	TFO Preparing Facilities Application
					888 Stage 1 - Med Hat Area 138kV line development	AML			1 All Equipment	2013-06-30	\$50,300,000	TFO Preparing Facilities Application
					1034 Stage 2 - Chapel Rock Sub and 240kV line to Fidler	AML			1 All Equipment	2015-02-15	\$217,400,000	TFO Preparing Facilities Application
					1035 Stage 2 - Sub C and 240kV line to MATL S/S	AML			1 All Equipment	2014-08-15	\$128,400,000	TFO Preparing Facilities Application
					1036 Stage 2 - Goose Lake S/S to Sub C 240kV line	AML			1 All Equipment	2015-10-15	\$186,600,000	TFO Preparing Facilities Application
					1037 Stage 2 - Sub C to Whitla 240kV line	AML			1 All Equipment	2014-08-15	\$79,300,000	TFO Preparing Facilities Application
					1038 Stage 2 - Blackie Area 138kV Upgrade	AML			1 All Equipment	2014-02-15	\$18,100,000	TFO Preparing Facilities Application
					1039 Stage 2 - Cypress Substation SVC	AML			1 All Equipment	2013-08-15	\$31,100,000	TFO Preparing Facilities Application
					1040 Stage 2 - Ware Junction Substation Upgrade	AML			1 All Equipment	2012-02-15	\$10,300,000	TFO Preparing Facilities Application
<b>SETR</b> South East Transmission Reinforcement  System reinforcement at Lethbridge, Brooks and Empress	1 South East Transmission Reinforcement	2007-09-27	2008-07-11	NID Approved	974 City of Lethbridge	Leth.	2009-03-15	2010-01-22	1 All Equipment	2010-03-01	\$5,000,351	Facilities Application Approved
					975 AML North Lethbridge	AML	2009-02-24	2009-11-06	1 All Equipment	2010-02-15	\$9,265,336	Facilities Application Approved
					976 Brooks Area Transmission Development	AML	2008-12-18	2009-03-17	1 All Equipment	2010-01-29	\$4,000,000	Facilities Application Approved
					981 Brooks New Transformers	AML	2008-12-18	2009-03-17	1 All Equipment	2009-11-30	\$8,000,000	Facilities Application Approved

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					983 ATCO 9L933/934 & 9L950 Upgrade	ATCO			1 All Equipment	2010-03-01	\$1,477,000	FA not required-minor protection changes only
					984 New Cypress Substation 562S	AML	2008-12-23	2009-04-28	1 All Equipment	2009-12-18	\$21,000,000	Facilities Application Approved
					985 Jenner 240kV Diameter Addition	AML	2008-12-12	2009-03-02	1 All Equipment	2009-09-30	\$3,000,000	Facilities Application Approved
					986 ATCO - McNeil 840S Cap Bank addition	ATCO	2009-08-04	2009-12-01	1 All Equipment	2010-06-30	\$5,500,000	Facilities Application Approved
					987 Cypress 669L line	AML	2008-12-23	2009-04-28	1 All Equipment	2010-02-25	\$2,100,000	Facilities Application Approved
					988 Cypress 658L/668L line	AML	2008-12-23	2009-04-28	1 All Equipment	2010-02-25		Facilities Application Approved
					989 Cypress 830L line	AML	2008-12-23	2009-04-28	1 All Equipment	2010-03-05		Facilities Application Approved
					990 Cypress 975L.1011L line	AML	2008-12-23	2009-04-28	1 All Equipment	2010-01-27		Facilities Application Approved
					991 Jenner 951L/1002L line-in and out	AML	2008-12-12	2009-03-02	1 All Equipment	2009-09-30		Facilities Application Approved
					992 Amoco Empress Thermal Upgrades	AML	2008-12-12	2009-03-02	1 All Equipment	2009-10-30		Facilities Application Approved
					993 Jenner Thermal Upgrades	AML	2008-12-12	2009-03-02	1 All Equipment	2009-09-30	\$2,000,000	Facilities Application Approved
					1031 Installation of a new 27 MVAR Cap Bank @ 138 kV at Tilley 49	AML	2009-03-20	2009-04-23	1 All Equipment	2010-02-26	\$2,000,000	Facilities Application Approved
					1032 Brooks 240kV lines upgrade	AML	2009-03-20	2009-04-22	1 All Equipment	2010-04-30	\$4,000,000	Facilities Application Approved
					1033 New 138kV line 666L	AML	2009-05-08		1 All Equipment	2010-03-30	\$25,273,000	AUC Reviewing Facilities Application
YATD	Yellowhead Area Transmission Development	1	Yellowhead Area Transmission Development	2009-06-09	AUC Reviewing NID	909 Hinton/Edson Area Transmission Development	AML		1 All Equipment	2011-09-26	\$29,670,225	TFO Preparing Facilities Application
	Yellowhead Area Transmission Development - all NID work completed under P671					910 Cold Creek 602S 138kV, 27 MVAR Capacitor Bank	AML		1 All Equipment	2010-10-01	\$1,960,875	TFO Preparing Facilities Application
						911 Cherhill Substation and 240kV Interconnection	AML		1 All Equipment	2011-08-01	\$19,825,014	TFO Preparing Facilities Application
						912 Drayton Valley Area 138 kV Transmission Development	AML		1 All Equipment	2011-09-12	\$38,260,000	TFO Preparing Facilities Application

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**Notes:**

1. Program Name and Description: This is the AESO designation for a group of projects that fall under a system study. This will include Need Filings, Facility Proposal Filings, and Energizations.
2. Need Filing: This is the identifier within the Program of a Need Identification Document (NID) that has been submitted to the AUC for approval as per the requirement of Section 34(1) of the Act. There may be multiple Need Filings associated with a Program. Need Filings will be removed from this report when all equipment associated with the Need Filing is in service.
3. Need Filed: This is the date that the NID was filed with the AUC.
4. Need Approval: This is the date the NID is approved by the AUC.
5. Need Filing Status: This is the current status of the Need Filing.
6. Facility Proposal Filing: This is the identifier of the TFO's Facility Proposal Filing (sometimes called Permit and License application) that has been registered with the AUC. There may be multiple Facility Proposals associated with a Need Filing. Facility Proposal Filings will be removed from this report when all equipment associated with the Facility Proposal Filing is in service.
7. TFO: This is the Transmission Facility Owners (TFO) who has filed the Facility Proposal, and is responsible for the estimates, schedule, construction and costs for the project.
8. Facility Filed: This is the date the Facility Proposal was registered with the AUC.
9. Facility Approved: This is the date the Facility Proposal was approved by the AUC.
10. Energization: This is the identifier within the Facility Proposal of the energization dates of various pieces of equipment. There may be multiple Energizations associated with a Facility Proposal. Energizations will be removed from this report when they are in service.
11. Forecast ISD: This is the most recent information the TFO has provided on the expected In Service Date of the equipment within the Energization. This information is typically provided in the Proposal to Provide Service (PPS) or Monthly Project Reports.
12. Forecast Cost: This is the most recent estimate provided by the TFO. This could come from the NID Estimate, PPS Estimate, Monthly Project Report, Project Variance Report, or Final Cost Report. This cost is associated with the Facility Proposal Filing.
13. Facility Filing Status: This is the current status of the Facility Proposal Filing.