

AESO Transmission Customer (Generation and Load) 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 Filed	NID Approved	P and L Filed	P and L Approved	Forecast or Actual ISD	TFO	Year NID Valid	NID Estimate	PPS Estimate	TFO Forecast Cost	Project Status
308	ENMAX 26S substation modifications	ENMAX 26S New Substation Construction	DFO Load Growth	2005-03-10	2005-11-25	2008-09-08		2008-11-30	ENMAX	2005	6,350,000	5,450,000	5,450,000	Under Construction
359	Fortis - Chestermere Lake area 25 kV breaker additions	Two new 25 kV feeders sourced from ENMAX substations to Chestermere area. Add a 25 kV regulator at Carseland 535S and Salvage shepard Substation.	DFO Load Growth	2005-10-21	2006-01-16	2006-04-19	2007-01-30	2007-11-30	AML	2005	420,000	488,200	488,200	Awaiting TFO Final Costs
									ENMAX	2005	301,000	366,000	509,679	
376	Blue Trail Wind Farm	Transmission Facilities to accommodate a 66 MW Wind Farm	Wind Generation Addition or Upgrades					2009-10-01	AML	2007	630,000	514,000	514,000	Preparing Need Filing
									TransAlta			211,001	211,001	
384	ENMAX Taber Wind Project	138 kV Transmission line upgrades as well as upgrades at Fincastle 336S and Taber Wind 134S	Wind Generation Addition or Upgrades	2006-04-25	2006-07-18	2006-05-16	2006-05-23	2006-12-25	AML	2006	6,350,000	7,100,000	7,100,000	Awaiting TFO Final Costs
392	VisionQuest - Waterton Wind Farm	Transmission upgrades to supply 300 MW Wind Farm.	Wind Generation Addition or Upgrades					2999-12-31	AML		27,000,000		27,000,000	Customer Application Being Processed
393	VisionQuest Summerview Ph. II Wind Farm	Transmission upgrades to supply 60 MW Wind Farm near Pincher Creek.	Wind Generation Addition or Upgrades					2009-12-31	AML		1,179,337		1,179,337	Preparing Customer Proposal
422	TransCanada Edson Gas	New Marlboro 348S 138/4.16 kV Substation	Industrial Interconnection or Expansion	2004-07-05	2004-10-19	2005-02-15	2005-10-19	2005-12-12	AML	2004	5,350,000	8,220,000	9,200,000	Awaiting TFO Final Costs
423	CNRL Horizon Project 240 kV Connection	Add 240 kV breaker at Dover and termination of 9L08. Expansion of Joslyn Creek to add 5-240 kV breakers and termination of 9L09, 9L66 and two 240 kV lines (owned by CNRL) to CNRL Horizon station.	Industrial Interconnection or Expansion	2004-12-22	2005-04-22	2006-05-03	2006-06-12	2007-08-21	ATCO	2004	13,800,000	15,048,000	14,260,000	Commissioning Phase
425	Enmax No. 6 Substation	New 138 kV distribution point of delivery	DFO Load Growth	2004-09-08	2005-03-04	2007-03-31	2008-06-06	2009-06-30	ENMAX	2004	6,050,000	5,955,000	8,005,490	Under Construction
432	Nexen/Opti Long Lake 144 kV Connection	144 kV Interconnection	Industrial Interconnection or Expansion	2004-12-21	2005-04-19	2005-10-05	2006-01-25	2008-03-31	ATCO	2004	7,300,000	7,569,000	7,455,130	Commissioning Phase
433	Fortis Christina Lake	New 240/25 kV Substation (40 MW load), 240 kV modifications to Leismer substation, 25km of 240 kV line.	DFO Load Growth	2005-02-18	2005-07-28	2005-09-14	2005-12-09	2006-09-16	AML	2005	21,600,000	27,994,000	29,823,000	Awaiting TFO Final Costs
									ATCO	2007		918,000	850,000	

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437	Brintnell Transformer Upgrade	Install two 25kV breakers, a bus tie MOD, and a 25kV gangswitch complete with protection and control. Relocate spare 260-25kV LTC transformer from Paintearth sub to new bay at Brintnell sub. Relocate high impedance transformer 901T from Brintnell to spare bay at Paintearth. Salvage 42MVA voltage regulator at Brintnell and install a new 30/40/50MVA voltage regulator at Paintearth.	DFO Load Growth	2008-02-20	2008-07-30			2009-06-30	ATCO		3,116,000	4,822,200	4,822,200	TFO Preparing Facilities Application
440	Fortis- New Dry Creek (Airdrie) Sub	New 138/25 kV Substation and transmission line	DFO Load Growth	2004-12-23	2005-05-13	2006-11-22	2007-03-16	2008-11-01	AML	2004	7,000,000	11,500,000	12,500,000	Under Construction
444	MEG Energy 240 kV Interconnection	25km of 240 kV line and modifications to Christina Lake substation to connect MEG Energy customer owned Conklin substation.	Industrial Interconnection or Expansion	2005-09-19	2005-12-08	2005-09-19	2005-12-08	2009-03-01	AML	2005	10,654,000	10,654,000	14,224,871	Awaiting TFO Final Costs
456	ENMAX No.47 Substation	New 138/25 kV substation with 1 - 30/40/50 MVA transformer, 10 - 25 kV breakers. Approximately 12 km of transmission line to interconnect the new station. 1 - 138 kV breaker at Beddington 162S	DFO Load Growth	2006-06-30	2006-10-02	2008-04-25		2009-11-30	AML			1,980,000	1,980,000	Awaiting AUC Decision On Facilities Application
									ENMAX	2008	13,120,000	14,630,346	14,630,346	
459	Suncor Chin Chute Wind Farm	20km of 138 kV transmission line.	Wind Generation Addition or Upgrades	2006-04-18	2006-05-12	2006-05-16	2006-08-18	2006-10-30	AML	2006	3,950,000	5,885,000	5,516,000	Awaiting TFO Final Costs
462	Castle Rock Wind Farm	Wind Power Inc Transmission Facilities to accommodate 115MW Wind Farm	Wind Generation Addition or Upgrades					2009-12-31	AML					Preparing Customer Proposal
473	BA Energy Heartland Project	New point of interconnection for the Heartland upgrader project to service 35 MW of load	Industrial Interconnection or Expansion	2006-06-23	2006-07-18	2006-11-14	2007-06-19	2007-12-20	AML	2005	11,669,919	9,700,000	11,360,000	Awaiting TFO Final Costs
475	Syncrude G11, G12, G21 Upgrade	Syncrude G11, G12 & G21 generators	Gas Generation Addition or Upgrades	2005-05-10	2005-11-07	2006-07-18	2006-07-18	2008-10-15						Commissioning Phase
476	Kinder Morgan Watson Creek 104S	20 km of 138 kV transmission lines and a 138/4.16 kV substation.	Industrial Interconnection or Expansion	2006-05-15	2006-06-09	2006-08-23	2006-10-31	2007-12-07	AML	2005	8,000,000	11,900,000	13,000,000	Awaiting TFO Final Costs
477	Kinder Morgan Bilby 105S	New 138 kV transmission tap.	Industrial Interconnection or Expansion	2006-05-15	2006-06-09	2006-08-02	2006-09-26	2007-01-22	AML	2005	360,000	830,000	830,000	Awaiting TFO Final Costs
478	Kinder Morgan Paddle River 106S	0.1km of 138 kV transmission line and 138/4.16 kV substation.	Industrial Interconnection or Expansion	2006-01-30	2006-06-16	2006-08-02	2006-09-06	2007-05-03	AML	2005	4,100,000	4,200,000	4,550,000	Awaiting TFO Final Costs
479	Wild Rose Wind Farm	Transmission Facilities to interconnect West Windeau Inc. a proposed 200 MW Wind Farm	Wind Generation Addition or Upgrades	2007-12-07				2010-06-15	AML					TFO Preparing Facilities Application

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480	Sundance 4 Upgrade	Increase output of Sundance #4 generating unit by 53 MW. All modifications within Sundance plant and there are no transmission facility changes or additions required.	Coal Generation Addition or Upgrades					2007-09-10						Commissioning Phase
482	Montana Alberta Tie (MATL)	Build new substation 6 km north of Lethbridge including 3-240 kV breakers in ring configuration and 1km of D/C 240kV line to accommodate MATL interconnection.	Merchant Line	2006-04-22	2008-01-31	2006-12-13	2008-01-31	2009-12-31	AML	2006	7,834,445	9,200,000	9,200,000	AUC Approved - Facilities Approval Conditions Met
487	ATCO Updike 762S	30km of new 138 kV transmission line and new 144/2 5kV substation.	DFO Load Growth	2006-05-25	2006-08-30	2008-10-08		2009-07-01	ATCO	2005	5,956,000	8,998,000	9,028,000	Awaiting AUC Decision On Facilities Application
496	Suncor Firebag Stage 3	2 New Co-Gen Plants, new 260 kV transmission Line	Gas Generation Addition or Upgrades					2009-08-01						Under Construction
500	Transalta Keephills 3	The addition of 3 - 500 kV breakers and completion of 500 kV main bus and two diameters. Interconnection of Keephills 3 generator to one of the 500 kV diameters.	Coal Generation Addition or Upgrades	2008-01-13	2008-06-20			2010-02-01	AML	2010	31,727,170		67,149,011	TFO Preparing Facilities Application
									EPCOR	2010	115,282		115,282	
									TransAlta					
502	Kettles Hill Wind Farm Expansion (77 MW)	Minimal TFO work involving Scada upgrades and additional PMU data gathering - Customer owned substation will be adding two 138/34.5 kV, 40 MVA transformers	Wind Generation Addition or Upgrades					2009-12-01	AML	2008	26,900		26,900	Preparing Customer Proposal
503	Crystal Lake 722S add 2nd 144/25 kV, 30/40/50 MVA transformer and 144 kV breaker	Add second 144/25 kV, 30/40/50 MVA transformer and 144 kV breaker at Crystal Lake 722S substation.	DFO Load Growth	2006-04-20	2006-05-12	2008-06-11		2008-12-31	ATCO	2007	2,300,000	3,789,000	3,789,000	Awaiting AUC Decision On Facilities Application
506	New Clover Bar 25 kV supply	Establish 25 kV supply at CloverBar for EDI	DFO Load Growth	2006-08-22	2006-10-12	2007-01-19	2007-03-12	2008-12-01	EPCOR	2006	7,800,000	8,800,000	8,860,000	Under Construction
509	Yagos 100 MW Wind Farm near Goose Lake 103S	Transmission Facilities to interconnect a 100 MW Wind Farm located near Pincher Creek. Plans indicate connection to Goose Lake.	Wind Generation Addition or Upgrades					2999-12-01	AML	2007	10,043,787		10,043,785	Preparing Customer Proposal
510	Naturener HWY 785 Wind Farm	Transmission Facilities to accommodate 235MW Wind Farm	Wind Generation Addition or Upgrades					2999-12-31	AML					Preparing Customer Proposal
519	Old Man River Wind Farm	Addition of transmission line, T-tap and customer owned substation to 46 MW Wind Farm	Wind Generation Addition or Upgrades					2009-12-31	AML	2006	9,336,476		9,336,476	Preparing Customer Proposal
524	Riverview Wind Farm	Altalink Transmission Facilities to accommodate 115MW Wind Farm	Wind Generation Addition or Upgrades					2999-12-31	AML					Preparing Customer Proposal

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526	Fortis - TransCanada Keystone Pumpstation #1	Supply to new TransCanada Pumpstation #1. Build Lakesend 508S. 26km 144kV line from Ribstone Creek 892S	Industrial Interconnection or Expansion	2007-11-14	2008-08-18			2009-09-15	AML ATCO	2006	10,129,404 4,067,000	5,562,000 10,371,000	5,562,000 10,371,000	TFO Preparing Facilities Application
527	ATCO Electric - TransCanada Keystone Pumpstation #2	Supply to new TransCanada Pumpstation #2	Industrial Interconnection or Expansion	2007-11-14	2008-04-30			2009-07-15	ATCO	2006	5,059,000	13,744,000	13,744,000	TFO Preparing Facilities Application
528	Keystone Pump Station #3	Supply to new TransCanada Pumpstation #3	Industrial Interconnection or Expansion	2007-11-14	2008-06-09			2009-07-15	ATCO	2006	3,903,000	7,857,000	7,857,000	TFO Preparing Facilities Application
529	Keystone Pump Station #4	Supply to new TransCanada Pumpstation #4	Industrial Interconnection or Expansion	2007-11-14	2008-04-30			2009-07-15	AML ATCO		75,158 5,803,000	151,000 14,639,000	151,000 14,639,000	TFO Preparing Facilities Application
531	Syncrude 2nd 260 kV transmission line from DO5 to Aurora	Syncrude 2nd 260 kV transmission line from DO5 to Aurora.	Industrial Interconnection or Expansion	2006-09-19	2006-10-12	2006-11-09	2006-11-14	2008-07-01	ATCO	2006	165,000	216,000	216,000	Under Construction
532	Shell Caroline 378S add 20 MW generator	Shell will add a 28 MVA steam generator to supply their own plant load. 4.99 MW STS	Gas Generation Addition or Upgrades	2007-08-02	2007-08-22	2007-08-02	2007-08-22	2008-06-30	AML		108,450	124,375	124,375	Commissioning Phase
551	Lafarge Exshaw Load Increase	Installation of third transformer. SCADA and P&C will need to be upgraded to current AESO standards.	Industrial Interconnection or Expansion			2006-07-25	2006-08-30	2007-12-31	AML					Commissioning Phase
556	ATCO Cranberry Lake 827S Capacity Upgrade	Install 12/20/25 MVA 144/25 kV transformer, one (1) 144 kV breaker, one (1) 144 kV gangswitch, and two (2) 25 kV motorized gangswitches	DFO Load Growth	2006-07-25	2006-08-18	2007-07-31	2007-10-16	2008-04-01	ATCO	2006	2,252,496	2,425,000	2,425,000	Awaiting TFO Final Costs
559	North West Upgrader Facility near Ft Sask	Build new 240 kV transmission line and substation.	Industrial Interconnection or Expansion	2008-06-09				2011-05-23	AML		40,140,856		40,140,856	Awaiting AUC Decision On Need
561	Husky Sunrise	Install about 44 km of single circuit 240 kV transmission line (9L26) from Muskeg River area to the Black Fly 934S (ATCO Owned Station) and 4 km of double circuit 240 kV transmission line to Sunrise 925S (Husky Owned).	Industrial Interconnection or Expansion	2007-05-23	2007-11-22	2008-09-30		2010-04-01	ATCO	2010	75,419,620	79,661,000	79,661,000	Awaiting AUC Decision On Facilities Application
563	PetroCanada Fort Hills	Transmission facilities to interconnect Bitumen Extraction Mine and Processing Facility	Industrial Interconnection or Expansion	2007-05-08	2007-11-22	2008-06-09		2009-04-01	ATCO	2009	11,501,020	12,199,000	12,199,000	Awaiting AUC Decision On Facilities Application
579	Bowron 674S Upgrade	Upgrade the distribution capacity at Bowron 674S by adding a second transformer.	DFO Load Growth	2007-01-26	2007-02-16	2007-08-16	2007-08-22	2009-06-08	Leth.	2006	2,192,970	2,410,504	2,410,504	Under Construction
583	Shell Albion Muskeg River Mine	Expansion of operations due to the Jack Pine development by Shell.	Industrial Interconnection or Expansion	2007-12-20	2008-02-12	2008-04-09	2008-06-06	2008-12-01	ATCO	2008	600,000	600,000	600,000	Under Construction

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584	Fortis South Leduc New Sub	South Leduc New 138/25kV Substation proposed to serve the load growth in the area.	DFO Load Growth					2009-12-17	AML		21,086,684	18,576,000	18,576,000	TFO/AESO Preparing Combined Filing
585	Fortis Broadmoor 420S 138/25 kV Station	Urban 138 kV interconnection.	DFO Load Growth	2008-01-14	2008-04-30			2009-07-15	AML	2006	11,395,402	10,563,000	10,563,000	TFO Preparing Facilities Application
587	Waupisoo 405S Substation	Enbridge Waupisoo Midpoint Pump Station Connection	DFO Industrial	2007-04-19	2007-11-09	2007-11-21	2008-01-16	2008-05-21	AML	2008	9,879,588	10,545,000	10,545,000	Awaiting TFO Final Costs
592	Fortis - Air Products Edmonton Hydrogen Plant	Additional 138/4.16 kV 15/20/25 MVA transformer at Bretville 185S	DFO Industrial	2007-01-10	2007-02-12	2007-04-13	2007-06-04	2008-01-04	AML	2006	1,800,000	1,827,500	1,827,500	Awaiting TFO Final Costs
593	EPCOR Clover Bar Peaker	Substation additions at CloverBar substation First Phase generation (40 MW) connected to existing 72 kV breaker	Gas Generation Addition or Upgrades	2006-11-27	2007-03-06	2007-03-15	2007-04-27	2009-11-01	EPCOR	2006	2,330,000	2,231,644	2,231,644	Under Construction
595	ATCO-Statoil - Leismer	Transmission Facilities to supply 24 MW of customer load	Industrial Interconnection or Expansion	2007-11-06	2008-03-20	2008-09-23		2009-09-30	AML			21,000,000	21,000,000	Awaiting AUC Decision On Facilities Application
									ATCO		21,960,000	8,704,000	8,704,000	
616	Petro-Canada Fort Hills Sturgeon Upgrader	Build 240 kV line from Lamoureux substation to Sturgeon Upgrader	Industrial Interconnection or Expansion	2008-07-09				2011-04-01	AML		24,100,000	40,532,000	40,532,000	TFO/AESO Preparing Combined Filing
618	ATCO-Bridge Creek 798S	25/33/42 MVA transformer replacement at the Bridge Creek 798S substation	DFO Load Growth	2006-09-29	2006-10-24	2006-12-19	2007-01-19	2007-07-21	ATCO	2007	1,689,000	1,876,000	1,876,000	Awaiting TFO Final Costs
619	Transalta Keephills 3 - Station Service	Addition of a 138 kV supply for Keephills 3 interconnection; install a 138 kV breaker at Keephills 320P and construction of a 138 kV line to Keephills 3 generator site.	Industrial Interconnection or Expansion	2008-02-13	2008-04-30			2009-07-03	AML	2009	3,004,160		3,004,160	TFO Preparing Facilities Application
620	EPCOR-Petrolia Breaker P84	15 kV breaker addition	DFO Load Growth	2006-09-29	2006-10-24	2006-11-20	2007-01-12	2007-12-13	EPCOR	2006	62,000	104,886	39,550	Awaiting TFO Final Costs
624	Imperial Oil-DAT Expansion	Expansion of Imperial Oil Cold Lake facility. Build a new 144/25 kV Transmission line and a 144/25 kV Substation within Imperial Cold Lake ISD.	Industrial Interconnection or Expansion	2007-04-18	2007-06-11	2007-07-30	2007-08-09	2008-07-22	ATCO		1,226,400	1,226,400	1,226,400	Awaiting TFO Final Costs
630	ENMAX No. 37 Feeder Addition	Addition of one feeder originating at No. 37 Substation.	DFO Load Growth	2007-08-14	2007-09-14	2008-05-02	2008-06-13	2009-02-28	ENMAX		497,000	607,921	607,921	Under Construction
637	Fortis Tilley 498S Transformer and Breaker Addition	Install a second 138 kV/25 kV supply transformer and 25 kV feeder.	DFO Load Growth	2008-04-21	2008-07-08	2008-04-21	2008-07-08	2008-11-01	AML		3,848,931	3,935,000	3,935,000	Under Construction

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643	Enmax No. 9 Transformer Upgrades	Upgrade the 2 existing 28 MVA transformers to 2 - 50 MVA transformers at the Enmax No. 9 Substation	DFO Load Growth	2007-03-16	2007-04-16	2008-03-06	2008-05-29	2009-05-01	ENMAX		5,214,131	5,775,408	5,775,408	Under Construction
648	FortisAlberta Sylvan Lake New Substation	New 138/25 kV Substation	DFO Load Growth	2007-11-01	2008-06-26			2009-09-01	AML	2007	15,162,375	11,093,000	11,093,000	TFO Preparing Facilities Application
649	Enbridge Rosyth Transformer Addition	Transformer addition to Enbridge Rosyth 296S.	Industrial Interconnection or Expansion	2007-10-12	2007-11-09	2007-11-20	2007-12-05	2008-08-15	AML		4,192,917	4,371,000	4,050,652	Awaiting TFO Final Costs
650	FortisAlberta Burdett Transformer Addition	Installation of a 25/33/42 MVA, 138/25kV transformer.	DFO Load Growth	2007-10-23	2008-02-21	2008-04-21	2008-07-07	2008-12-01	AML	2007	3,949,000	4,359,000	4,359,000	Under Construction
651	FortisAlberta Balzac Transformer Addition	Installation of a second 138kV/25kV, 25/33/42 MVA supply transformer and two additional 25 kV breakers in Balzac 391S substation.	DFO Load Growth	2008-04-25	2008-07-08	2008-04-25	2008-07-08	2008-11-01	AML	2007	4,375,654	4,192,000	4,408,000	Under Construction
652	FortisAlberta Staveley Transformer Addition	Replace existing 12/13.5 MVA transformer and 15MVA 25 kV regulator pair with a 15/20/25 MVA LTC transformer.	DFO Load Growth	2007-10-17	2007-11-29	2008-01-11	2008-02-15	2008-10-20	AML		4,866,136	4,263,000	4,859,137	Under Construction
655	FortisAlberta Devon 14S Conductor Upgrade	Upgrade overhead conductor from 3/0 to 477 MCM	DFO Reliability Requirements			2008-07-18	2008-08-21	2008-12-01	AML	2006	308,474	511,000	551,000	Under Construction
656	TransAlta Sundance 5 Upgrade	Upgrade existing Sundance Unit 5 to 53 MW of Net Generation	Coal Generation Addition or Upgrades	2007-08-01	2007-09-07			2009-08-06						Under Construction
658	Fort Assiniboine Phase 2	Install an additional 138/25 kV 15/20/25 MVA LTC transformer, remove the installed operational spare transformer, and install one 25 kV breaker.	DFO Load Growth	2008-07-31		2008-08-01		2009-03-27	AML	2008	5,652,083	5,727,000	6,347,248	Under Construction
666	ATCO Electric Hangingstone Substation Upgrade	Addition of one 144kV breaker, 1-42 MVA 144/25 kV transformer and 1 25 kV breaker at the ATCO Hangingstone substation.	DFO Load Growth	2007-05-15	2007-06-11	2008-01-14	2008-03-26	2009-01-01	ATCO	2008	5,341,440	5,075,000	5,075,000	Under Construction
667	ATCO Power Valleyview #2	Add 47 MW gas turbine to existing gas peaking facility	Gas Generation Addition or Upgrades			2007-07-24	2007-11-06	2008-07-30	ATCO					Commissioning Phase
672	Northern Prairie Power Project 90MW Peaking Generator	90 MW Gas turbine peaking power - 144 kV Interconnection to Poplar Hill 790S and system protection and telecommunication changes	Gas Generation Addition or Upgrades	2007-11-14	2007-12-14	2008-05-16	2008-08-13	2008-12-01	ATCO	2008	3,703,900	4,283,000	4,283,000	Under Construction
677	ENMAX No. 8 Substation Transformer Increase	Capacity Increase to a 50 MVA Transformer at the ENMAX # 8 Substation	DFO Load Growth	2007-11-05	2008-02-04			2010-04-30	ENMAX		4,512,949	5,779,282	5,779,282	TFO Preparing Facilities Application

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682	Enmax No. 7 Transformer Addition	Transformer addition at Enmax # 7 sub due to load growth	DFO Load Growth	2007-11-05	2007-12-04	2008-09-05		2009-12-31	ENMAX		4,579,183	4,643,000	4,643,000	Awaiting AUC Decision On Facilities Application
683	Kirby In-Situ Oil Sands Plant	Transmission facilities to enable 138kV interconnection of CNRL proposed SAGD Plant	DFO Industrial					2012-03-01	AML					Planning Stage
685	Acheson 305S 25 kV Breaker Addition	Install two additional 25 kV breakers at the Acheson 305S substation	DFO Load Growth	2007-06-15	2007-07-11	2007-09-26	2007-11-22	2008-04-25	AML	2007	777,778	760,000	735,000	Awaiting TFO Final Costs
692	Dapp Power Westlock Expansion	Addition of 12.5 MW of Gas Fired Generation to existing 16.5 MW Biomass Fired Power Plant	Other Generation Addition or Upgrades			2007-11-16	2008-06-03	2009-09-01						Under Construction
695	Stirling 100 MW Wind Farm	Transmission facilities to supply 100 MW Stirling Wind Farm	Wind Generation Addition or Upgrades					2999-12-31	AML					Preparing Customer Proposal
698	FortisAlberta Fort Saskatchewan 25 kV breaker addition	25 kV breaker addition at Fort Saskatchewan 54S Sub.	DFO Load Growth	2007-08-08	2007-09-07	2007-10-17	2008-01-15	2008-09-30	AML			447,000	712,000	Under Construction
700	TransAlta Highvale Mine	Relocation and upgrade of service to dragline	Industrial Interconnection or Expansion	2008-02-22	2008-05-06			2009-04-01	AML		7,662,713	7,576,000	7,576,000	Preparing Direction
702	Hardisty Area System Upgrade	Build the new 478S Tucuman system substation with the addition of Fortis Alberta 1 x 25/33/42 MVA 138/25kV transformer.	DFO Load Growth					2009-06-15	AML		12,059,952		12,059,952	TFO/AESO Preparing Combined Filing
703	Maxim Power Skaro Peaking Station	180 MW Simple Cycle Peaking Station	Gas Generation Addition or Upgrades					2009-09-01	AML		2,330,000		2,330,000	Preparing Need Filing
706	Fortis Alberta Bruderheim Transformer Addition	Addition of a 15/20/25 MVA transformer at Bruderheim	DFO Load Growth	2007-12-10	2008-02-04	2008-04-10	2008-06-24	2009-04-01	AML		5,070,962	4,365,000	4,365,000	Under Construction
708	Fortis Alberta Blackfalds/Lacombe Upgrade	Addition of a 15/20/25 MVA transformer at Blackfalds and an upgrade from a 15/20 MVA transformer to a 15/20/25 MVA transformer at Lacombe	DFO Load Growth	2008-01-14	2008-03-27	2008-04-25		2008-12-01	AML	2007	4,969,368	5,241,000	5,241,000	Awaiting AUC Decision On Facilities Application
710	ATCO La Crete Substation	New 144/25 kV Substation in the High Level Area with 66km of 144kV Line	DFO Load Growth	2008-05-30	2008-09-04			2011-03-31	ATCO	2008	20,980,000		26,539,700	Awaiting TFO PPS Estimate
711	Inter-Pipelines Vermillion Pump Station	Service for 8MW Pump Station in the Vermillion Area	DFO Load Growth					2009-08-01	AML	2008	6,866,442		6,866,442	Preparing Need Filing
									ATCO	2008	300,000		300,000	
712	ATCO Friedenstal 800S Transformer Addition	A new 144/72/25 kV transformer addition to Friedenstal 800S Substation	DFO Reliability Requirements					2010-12-31	ATCO	2008	4,455,000		4,588,000	Awaiting Customer Decision

Project Number	Project Name	Project Description	Need Description	NID Filed	NID Approved	P and L Filed	P and L Approved	Forecast or Actual ISD	TFO	Year NID Valid	NID Estimate	PPS Estimate	TFO Forecast Cost	Project Status
717	Enbridge Stonefell South Terminal	Transmission Facilities to accommodate a 22MW Enbridge Tank Farm	DFO Load Growth					2010-01-01						Project On Hold
718	Greengate Wintering Hills Wind Project	Transmission Facilities to accommodate a 150MW Greengate Wintering Hills Wind Project	Wind Generation Addition or Upgrades					2010-09-01						Preparing Customer Proposal
720	Fortis Alberta Edgerton Transformer Upgrade	Upgrade 138kV transformer to 15/20/25 MVA LTC	DFO Load Growth					2009-12-01	AML	2009	2,919,839	3,590,000	3,590,000	TFO/AESO Preparing Combined Filing
721	Fortis Alberta Peace Butte Substation Upgrade	Addition of 138/25kV 15/20/25 MVA transformer and 25 kV breaker at 404 Substation	DFO Load Growth	2008-08-12				2009-04-01	AML	2007	4,397,930	4,596,000	4,596,000	Awaiting AUC Decision on Combined Filing
722	InterPipeline Fund - Linberg Pumpstation	Transmission Facilites to accommodate a 7MW Pumpstation	DFO Load Growth					2009-09-01	ATCO	2008	18,625,000		18,625,000	Preparing Need Filing
725	Shell AOSP Commissioning Power Scotford 807L T-Tap	Install a T-Tap from 807L to Customer owned 402S Substation for construction & commissioning power to Shell Athabasca Oilsands Project (AOSP) Upgrader Expansion.	Industrial Interconnection or Expansion	2008-04-30	2008-08-06	2008-09-26		2008-11-21	AML		3,400,000	2,895,000	2,895,000	Awaiting AUC Decision On Facilities Application
726	ATCO Michichi Creek Breaker Addition	25kV breaker additions at Michichi Creek 802S	DFO Load Growth					2009-06-01	ATCO	2007	831,000	998,000	998,000	TFO/AESO Preparing Combined Filing
730	120MW ENMAX Crossfield Energy Centre Interconnection	ENMAX 120MW Peaking Plant Interconnection	Gas Generation Addition or Upgrades	2008-02-28				2009-07-01	AML	2008	7,137,972	8,600,000	7,137,972	TFO/AESO Preparing Combined Filing
733	Blackmud 155S Transformer Addition	Upgrade to 155S including one 138/25kV transformer and two 25kV breakers	DFO Load Growth					2009-10-14	AML		5,137,973	5,738,000	5,738,000	TFO/AESO Preparing Combined Filing
734	Wainwright 51S Transformer Addition	Fortis Alberta Wainwright one 138-25kV Transformer Addition	DFO Load Growth					2009-12-01	AML		8,006,784	6,494,000	6,494,000	TFO/AESO Preparing Combined Filing
748	ATCO Three Hills Breaker Addition	25kV Breaker Addition	DFO Load Growth					2009-08-01	ATCO	2008	422,000	415,000	415,000	TFO/AESO Preparing Combined Filing
755	ATCO Dome Cutbank Regulator	Regulator Upgrade due to DFO load growth	DFO Load Growth					2009-08-01	ATCO	2008	470,050	750,000	750,000	TFO/AESO Preparing Combined Filing
768	Ethel Lake Substation Upgrade	Capacity Upgrade - New 144/25kV transformer to replace 144/72kV and 72/25kV transformers	DFO Load Growth					2009-11-01	ATCO	2007	2,784,000	2,934,000	2,784,000	TFO/AESO Preparing Combined Filing
769	EPCOR South Edmonton Substation	Load growth driving new POD in South Edmonton.	DFO Load Growth					2010-06-01	AML		320,000		320,000	TFO/AESO Preparing Combined Filing
									EPCOR		16,500,000		16,500,000	
775	ATCO Crow Lake Breaker Addition	Breaker addition (25kV) to existing crow substation	DFO Load Growth					2009-05-01	ATCO		1,171,000	1,241,000	1,241,000	Awaiting Customer Decision

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778	Mahihkan Breaker	25kV Breaker Addition	DFO Load Growth					2009-09-01	ATCO	2007	359,000	354,000	354,000	TFO/AESO Preparing Combined Filing
779	ATCO Mercer Hill Substation Upgrade	Transformer upgrade	DFO Load Growth					2009-12-31	ATCO					Awaiting TFO PPS Estimate
792	Fortis Conklin Breaker Addition	25 kV breaker for Fortis at Conklin substation	DFO Load Growth					2010-09-01						Preparing Customer Proposal
801	FortisAlberta Dry Creek Substation Upgrade	Transformer addition & 3 25 kV Breakers	DFO Load Growth					2009-12-01	AML					Awaiting TFO PPS Estimate
804	FortisAlberta Northwest Cardiff Substation Upgrade	Transformer addition and 2 25 kV breakers	DFO Load Growth					2009-12-01	AML			7,324,000		Preparing Customer Proposal
805	Greengate Halkirk II Wind Project	150MW Wind Farm	Wind Generation Addition or Upgrades											Preparing Customer Proposal
806	FortisAlberta Hayter Breaker Addition	One 25 kV breaker addition	DFO Load Growth					2009-12-01	AML			653,100		TFO/AESO Preparing Combined Filing
807	ATCO - Enbridge Pipelines Janvier Pumpstation	ATCO - Enbridge Janvier Pumpstation interconnection.	DFO Industrial					2011-10-01	ATCO	2008				Project On Hold
808	ATCO - Enbridge Pipelines Bonnyville Pumpstation 144 kV Interconnection	ATCO - Enbridge Bonnyville Pumpstation. 144/4.16 kV interconnection - tap off 7L124 New sub - 940S Beartrap.	DFO Industrial					2010-04-01	ATCO	2008	12,522,000		12,522,000	Preparing Need Filing
809	Enbridge Pipelines Vermillion Pumpstation	ATCO - Enbridge Vermillion Pumpstation. 144 kV interconnection New sub - 918S Bauer	DFO Industrial					2010-04-01	ATCO	2008	7,433,000		7,433,000	Awaiting Customer Decision
814	ATCO - Husky Caribou SAGD Project	ATCO - Husky-Caribou SAGD new 144/25 kV POD New sub - 924S Fisher Creek.	DFO Industrial					2011-02-01	ATCO					Preparing Customer Proposal
815	Nova Chemicals Joffre Reliability Upgrade	Improve reliability of 138kV Bus No 2 addition of a 138kV breaker	Industrial Interconnection or Expansion					2010-06-01	AML	2008	583,581		583,581	Awaiting Customer Decision
822	FortisAlberta Redwater Breaker Addition	Additional 25 kV breaker	DFO Load Growth	2008-08-05				2009-12-01	AML			979,300	979,300	TFO/AESO Preparing Combined Filing
823	ENMAX No 26 Substation Upgrades	Addition of 2-50MVA transformers at No. 26 Substation	DFO Load Growth					2010-02-01	ENMAX	2008	8,181,550		8,181,550	Awaiting TFO PPS Estimate
824	FortisAlberta Balzac Capacity Increase	Add two 25 kV breakers	DFO Load Growth					2010-04-01	AML					Awaiting TFO NID Estimate

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826	ATCO Britnell South Central Substation Upgrades	144/25 kV distribution POD	DFO Load Growth						ATCO					Planning Stage
829	ENMAX No 54 Substation	138- 25 kV substation	DFO Load Growth					2011-11-01	ENMAX					Awaiting TFO NID Estimate
830	Glacier Power Dunvegan Hydro Electric Project	100MW run-of-river hydro generation	Hydro Generation Addition or Upgrades					2012-06-30						Planning Stage
831	FortisAlberta Fort Saskatchewan Area POD	138/25 kV substation w 25/33/42 MVA LTC & 3 25 kV breakers	DFO Load Growth					2010-12-01	AML					Planning Stage
836	City of Red Deer POD Substation	Addition of 25 kV breaker	DFO Load Growth					2009-06-01	Red Deer		215,000			TFO/AESO Preparing Combined Filing
842	ATCO Algar Substation Upgrade	Second transformer	DFO Load Growth											Planning Stage
844	TransAlta Sundance Unit 3 Upgrades	Upgrade capacity of thermal unit.	Coal Generation Addition or Upgrades					2012-09-01						Preparing Customer Proposal
848	TransAlta Keephills 1 Uprate	Increase 23-35 MW to existing unit	Coal Generation Addition or Upgrades											Preparing Customer Proposal
849	TransAlta Keephills 2 Uprate	Increase 23-35 MW to eexisting unit	Coal Generation Addition or Upgrades											Preparing Customer Proposal
853	FortisAlberta Cold Creek Substation Upgrades	Upgrade both transformers to 25/33/42 MVA and add 25 kV breaker	DFO Load Growth					2010-10-01	AML					Planning Stage
855	FortisAlberta Spruce Grove Substation	New 138/25 kV substation	DFO Load Growth					2010-10-01	AML					Planning Stage
858	FortisAlberta Tucuman Substation Upgrades	138/25 kV transformer addition	DFO Load Growth					2011-07-01	AML					Planning Stage
860	TransAlta Tempest Wind Farm	289.5 MW wind farm interconnection.	Wind Generation Addition or Upgrades											Planning Stage
861	ENMAX No 6 Substation	138 kV/25 kV & 13.8 kV substation	DFO Load Growth											Processing Application
864	TransCanada Keystone KXL Pumpstation #4	13 MW Load addition	DFO Load Growth					2011-07-01	ATCO					Planning Stage

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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 Filed: This is the date that the AESO submits to the AUC a Need Information Document (NID) for approval as per the requirement of Section 34(1) of the Act.
3. NID Approved: This is the date the NID is approved by the AUC.
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 AUC. 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 AUC. For Projects with mutiple applications, this is the date the last application is approved.
6. 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.
7. TFO: These are the Transmission 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
8. 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)
9. NID Estimate: Is a +/- 30 % estimate that is provided by the TFO and accompanies the NID submitted to the AUC. The AESO uses the estimate to assist with project scope decisions. The TFO's are required to submit the estimate in the format as per the requirements of the ISO Rule 9.1 available on the AESO WEB site.
10. 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 request. 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.
11. 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.
12. Project Status: This provides a brief status of the project.