

# 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/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
179	Kettles Hill Wind Farm	A 138 kV interconnection - < 100 m of S/C 138 kV line from existing 170L to Kettles Hill 383S Installation of protection, control, PMU and communications at Kettles Hill 383S. Modifications to existing facilities at Peigan 59S and Pincher Creek 396S	Wind Generation Addition or Upgrades	2004-07-14	2005-03-09	2005-03-25	2005-06-08		2005-12-05	AML	2005	1,292,000	835,000	827,241	Pre-Commissioning of Wind Farm
										TransAlta	2005		130,000	107,824	
308	ENMAX 26S substation modifications	ENMAX 26S New Substation Construction	DFO Load Growth	2005-03-10	2005-11-25	2006-06-05	2006-06-19	2006-11-01	2007-11-30	ENMAX	2005	6,350,000	5,450,000	5,450,000	Construction in-progress.
343	Bassano Substation	New Bassano 138/25 kV substation	DFO Load Growth	2004-09-08	2005-05-10	2005-06-10	2006-02-14	2007-01-18	2007-01-18	AML	2004	9,800,000	12,200,000	13,100,000	Substantially Complete - Awaiting Fortis feeder connection
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	2006-01-30	2007-05-01	2007-05-01	AML	2005	420,000	488,200	488,200	Final Commissioning Stage
										ENMAX	2005	301,000	366,000	487,000	
376	Blue Trail Wind Farm	Transmission facilities to supply 66 MW Wind Farm	Wind Generation Addition or Upgrades					2008-12-31	2008-12-31	AML	2007	630,000	514,000	514,000	Awaiting SW Transmission Reinforcement
										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	2006-06-14	2006-10-10	2006-12-15	2006-12-15	AML	2006	6,350,000	7,100,000	7,100,000	Full commissioning target July 31, 2007. Forecast Final costs received June 21, 2007.
386	Terasen - Wardlow/Jenner	New load (3 to 6 MW) at Jenner Station. 25 kV breaker and 25/138 kV LTC at Jenner 275S, 25kms 138 kV & establish 138/4 kV POD at Wardlow pumpstation.	Industrial Interconnection or Expansion	2004-04-14	2004-11-02	2004-11-15	2004-12-23	2005-02-01	2005-05-01	AML	2004	9,100,000	10,350,000	10,350,000	Complete - Awaiting Final Project Closeout

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387	Terasen - Peace Butte Station	Install two 138 kV breakers at Bullshead 523S, construct 25kms 138 kV & establish Peace Butte 138/4 kV POD.	Industrial Interconnection or Expansion	2004-03-24	2004-10-01	2004-10-25	2005-04-13	2005-03-18	2005-05-20	AML	2003	9,700,000	12,860,000	11,400,000	Complete - Awaiting Final Costs Pipeline Mitigation Outstanding
391	GW Power Soderglen Wind Project	Transmission facilities to supply 70.5 MW Wind Project.	Wind Generation Addition or Upgrades	2005-07-06	2005-11-08	2005-12-02	2006-02-13	2006-08-11	2006-08-11	AML	2005	3,500,000	3,867,000	2,910,000	Complete - Awaiting Final Costs
										TransAlta				745,000	
392	VisionQuest - Waterton Wind Farm	Transmission upgrades to supply 300 MW Wind Farm.	Wind Generation Addition or Upgrades					2999-12-31	2999-12-31	AML		27,000,000		27,000,000	Customer Application in Progress
393	VisionQuest Summerview Ph. II Wind Farm	Transmission upgrades to supply 60 MW Wind Farm near Pincher Creek.	Wind Generation Addition or Upgrades					2008-12-31	2008-12-31	AML		1,179,337		1,179,337	Awaiting SW Transmission Reinforcement
405	Elk Valley Coal	T-tap from 138 kV line	Industrial Interconnection or Expansion	2004-11-15	2004-12-17	2005-02-01	2005-03-01	2005-02-15	2005-04-01	AML	2004	185,000	199,000	199,000	Complete - Awaiting Final Project Closeout
409	East Industrial-E52S Substation 240/25 kV Capacity Increase	Upgrades to existing sub (2nd transformer and 240 kV line tap)	DFO Load Growth	2004-08-23	2004-10-22	2005-08-01	2005-10-19	2006-06-15	2006-09-18	AML		300,000	434,000	304,587	Complete - Awaiting Final Project Closeout
										EPCOR	2004	3,300,000	3,921,000	4,381,089	
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	2005-06-30	2005-12-15	AML	2004	5,350,000	8,220,000	9,200,000	Complete - Awaiting Final Costs Pipeline Mitigation Outstanding
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	2007-07-14	2007-07-14	ATCO	2004	13,800,000	15,048,000	15,048,000	Construction in-progress
425	Enmax No. 6 Substation	New 138 kV distribution point of delivery	DFO Load Growth	2004-09-08	2005-03-04	2007-03-31		2006-07-31	2008-07-31	ENMAX	2004	6,050,000	5,955,000	8,005,490	Awaiting P&L Approval
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	2006-10-02	2007-08-15	ATCO	2004	7,300,000	7,569,000	7,455,130	Complete- Generators to come on-line in mid-August.

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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	2006-09-01	2006-09-12	AML	2005	21,600,000	27,994,000	29,823,000	Complete - Awaiting Final Costs Pipeline Mitigation Outstanding
										ATCO	2007		918,000	850,000	
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	2007-11-15	2007-11-15	AML	2004	7,000,000	11,500,000	11,500,000	Construction in-progress
443	Fortis Blackmud Substation	New 138/25 kV Substation.	DFO Load Growth	2004-10-22	2005-09-02	2006-03-06	2006-06-01	2005-12-01	2006-12-20	AML	2005	4,900,000	7,115,000	8,684,450	Complete - Awaiting Final Costs.
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	2006-09-01	2006-09-21	AML	2005	10,654,000	10,654,000	14,224,871	Complete - Awaiting Final Costs. Pipeline Mitigation Outstanding
452	Blumenort 832S Capacity Increase	15/20/25 MVA LTC Transformer addition.	DFO Load Growth	2005-06-15	2005-12-15	2006-03-24	2006-04-07	2005-10-31	2006-07-31	ATCO	2004	2,116,000	2,259,000	2,452,000	Complete - Awaiting Final Project Closeout
454	Fortis-Ross Creek 906S Capacity Increase	New 30/40/50 MVA LTC Transformer addition.	DFO Load Growth	2005-05-20	2005-07-27	2005-11-22	2006-01-17	2006-04-01	2006-05-01	AML	2005	2,000,000	2,940,000	2,940,000	Complete - Awaiting 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			2008-09-01	2008-12-01	AML			1,980,000	1,980,000	PPS Review in-progress
										ENMAX	2008	13,120,000	15,266,346	15,266,346	
457	Canmore 118S	New 15/20/25 MVA LTC 138/25 kV Transformer and 25 kV breaker addition	DFO Load Growth	2006-04-18	2006-05-10	2006-06-16	2006-07-18	2006-10-01	2006-12-14	AML	2006	2,950,000	2,460,000	2,460,000	Complete - Awaiting Final Costs
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	2006-07-01	2006-10-30	AML	2006	3,950,000	5,885,000	5,889,000	Complete - Awaiting Final Costs Pipeline Mitigation Outstanding
461	Suncor Firebag Co-Gen	Transmission facilities to interconnect 85 MW of Gas Turbine Co-generation	Natural Gas Fired Generation Addition or Upgrades					2006-12-19	2007-02-07						No TFO work required. Energization Certificate issued on Jan 05, 2007 Awaiting WECC Testing Report.

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462	Castle Rock Wind Farm	Transmission Facilities to accommodate 112MW Wind Farm	Wind Generation Addition or Upgrades					2999-12-31	2999-12-31	AML					Planning Stage.
467	ATCO Seal Lake 869S Capacity Increase	25/33.3 MVA LTC 144/25 kV Transformer and 25 kV breaker addition	DFO Load Growth	2005-09-13	2005-12-16	2005-09-13	2006-01-25	2005-12-15	2006-04-30	ATCO	2005	2,282,000	2,856,000	2,573,000	Complete - Awaiting Final Project Closeout
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		2007-10-30	2007-10-30	AML	2005	11,669,919	9,700,000	9,700,000	TFO awaiting P&L
475	Syncrude G11, G12, G21 Upgrade	Syncrude G11, G12 & G21 generators	Natural Gas Fired Generation Addition or Upgrades	2005-05-10	2005-11-07	2006-07-18	2006-07-18	2006-05-01	2007-02-10						G12 & G21 Complete. Energization Certificate for G11 issued on Feb 15, 2006. Commissioning of G11 halted due to steam supply issue.
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	2007-03-01	2007-08-01	AML	2005	8,000,000	11,900,000	13,000,000	Transmission Lines Energized Substation work still in progress.
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	2007-03-01	2007-01-22	AML	2005	360,000	830,000	830,000	Complete - Awaiting 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	2007-03-01	2007-05-03	AML	2005	4,100,000	4,200,000	4,550,000	Complete - Awaiting Final Costs.
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 Fired Generation Addition or Upgrades					2007-09-06	2007-09-06						TransAlta executing modifications to Sundance #4 unit.
481	ATCO Flyingshot Substation load addition	25 kV Breaker Addition	DFO Load Growth	2006-04-17	2006-05-15	2006-05-26	2006-07-10	2006-05-31	2006-06-24	ATCO	2005	239,400	82,000	35,542	Complete - Awaiting Final Project Closeout
482	Montana Alberta Tie (MATL)	Build new substation 6 km north of Lethbridge including 3-240 kV breakers in ring configuration to accommodate MATL interconnection.	Merchant Line	2006-04-22		2006-12-13		2007-11-16		AML	2006	7,834,445	9,200,000	9,200,000	Awaiting for EUB Approval of NIF Application

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483	Fortis Coaldale 254S Transformer Addition	Addition of a 138/25 kV transformer	DFO Load Growth	2006-05-26	2006-07-18	2006-07-30	2006-09-18	2007-05-03	2007-05-03	AML	2005	2,009,000	2,650,000	2,650,000	Complete - Awaiting Final Costs
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			2007-03-31	2008-09-01	ATCO	2005	5,956,000	8,998,000	8,998,000	Refiling of P&L in-progress
489	Olds 55S - 25 kV breaker addition	Add a 25 kV breaker	DFO Load Growth	2006-04-18	2006-05-10	2007-01-07	2007-02-13	2006-10-31	2007-08-15	AML	2005	484,000	577,699	577,699	Construction in-progress
491	Wetaskiwin 40S 25 kV Breaker Addition	25 kV Breaker Addition	DFO Load Growth	2006-04-18	2006-05-15	2006-06-14	2006-06-26	2006-10-31	2006-12-22	AML	2006	450,000	231,000	231,000	Complete - Awaiting Final Project Closeout
493	Fortis Acheson 305S Capacity Upgrade	138/25kV 25/33/42 MVA LTC Transformer addition	DFO Load Growth	2006-04-20	2006-05-12	2006-06-06	2006-06-26	2006-12-15	2006-12-22	AML	2006	2,200,000	2,395,000	2,634,000	Complete - Awaiting Final Costs.
494	Fortis Namaka 428S Capacity Upgrade	138kV 15/20/25MVA LTC Transformer addition	DFO Load Growth	2006-04-26	2006-05-24	2006-07-04	2006-09-05	2006-12-15	2007-01-19	AML	2006	2,920,000	2,739,000	2,739,000	Complete - Awaiting Final Costs.
495	Vermilion 710S add 144/25 kV 25/33/42 MVA transformer	Add 144/25 kV, 25/33/42 MVA transformer and 144 kV breaker at Vermilion 710S substation.	DFO Load Growth	2006-04-20	2006-05-12	2006-12-19	2007-01-17	2007-05-31	2007-09-30	ATCO	2006	2,679,000	2,837,000	2,837,000	Construction in-progress.
496	Suncor Firebag Stage 3	2 New Co-Gen Plants, new 260 kV transmission Line	Natural Gas Fired Generation Addition or Upgrades					2008-06-30	2008-06-30						No TFO Work Anticipated
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			2007-06-30	2008-12-31	ATCO	2007	2,300,000		2,300,000	Awaiting PPS Estimate
504	ATCO Valleyview 794S Capacity Upgrade	15/20/25 MVA 144-25kV LTC Transformer addition	DFO Load Growth	2006-04-24	2006-05-23	2006-11-28	2007-01-11	2007-06-15	2007-06-29	ATCO	2005	2,172,200	2,016,000	2,016,000	Complete - Awaiting Final Costs
506	New CloverBar 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	2008-06-01	2008-06-01	EPCOR	2006	7,800,000	8,800,000	8,800,000	Construction in-progress

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509	Yagos 100 MW Wind Farm near Goose Lake 103S	Transmission Facilities to interconnect a 100 MW Wind Farm located near Pincher Creek	Wind Generation Addition or Upgrades					2999-12-01	2999-12-01	AML	2007	5,700,000		5,700,000	Planning Stage.
510	HWY 785 Wind Farm	Transmission Facilities to accommodate 235MW Wind Farm	Wind Generation Addition or Upgrades					2999-12-31	2999-12-31	AML					Planning Stage.
512	Joffre 525S Transformer and 25 kV breaker additions	One Transformer replacement, one transformer addition, and two 25 kV breakers.	DFO Load Growth	2006-04-18	2006-05-10	2006-05-17	2006-07-18	2006-12-01	2007-05-14	AML	2006	6,430,000	5,174,000	5,174,000	Complete - Awaiting Final Costs
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					2008-12-31	2008-12-31	AML	2006	9,336,476		9,336,476	Planning Stage
522	Fortis Innisfail Breaker	New 25 kV breaker addition at Innisfail 214S	DFO Load Growth	2006-06-20	2006-07-12	2006-08-21	2006-09-18	2006-11-30	2007-06-27	AML	2006	301,500	244,020	244,020	Complete - Awaiting Final Costs
524	Riverview Wind Farm	Transmission Facilities to accommodate 115MW Wind Farm	Wind Generation Addition or Upgrades					2999-12-31	2999-12-31	AML					Planning Stage.
525	ATCO Ruth Lake 848S Capacity Upgrade	144/72/25kV 30/40/50 MVA LTC Transformer addition	DFO Load Growth	2006-04-17	2006-05-09	2006-06-26	2006-08-28	2006-12-15	2007-02-05	ATCO	2006	2,000,000	1,641,975	1,641,975	Complete - Awaiting Final Costs
530	ATCO Weyerhaeuser Capacity Increase	Capacity Increase - 25/33/42 MVA LTC 144/13.8kV transformer addition	Industrial Interconnection or Expansion	2007-01-24	2007-02-16	2007-05-01	2007-05-17	2007-05-01	2007-12-31	ATCO	2006	2,983,000	3,124,000	3,124,000	Construction in-progress
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	2007-03-01	2008-04-01	ATCO	2006	165,000	216,000	216,000	Construction in-progress
532	Shell Caroline 378S add 20 MW generator	Shell will add a 20 MW steam generator to supply their own plant load.	Natural Gas Fired Generation Addition or Upgrades					2007-10-15	2007-09-15	AML					Planning Stage
549	City of Medicine Hat Gen Increase	Gen upgrade. No transmission work required.	Natural Gas Fired Generation Addition or Upgrades					2006-06-26	2007-02-15						WECC Test Report Received - Under Review

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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	2007-03-15	2007-08-01	AML					Construction in-progress.
552	ATCO Irish Creek POD	25 kV Breaker Addition and Voltage Regulator Upgrade	DFO Load Growth	2006-06-08	2006-07-04	2006-08-10	2006-08-25	2006-11-01	2007-04-01	ATCO	2006	1,024,000	1,096,000	866,000	Complete - Awaiting Final Project Closeout
554	Otauwau 729S 2 - 25 kV Breakers	Addition of 2 - 25 kV breakers at Otauwau 729S to supply 2 new 25 kV feeders	DFO Load Growth	2006-07-25	2006-08-15	2006-11-24	2006-12-20	2007-04-05	2007-04-05	ATCO	2006	700,000	849,000	849,000	Complete - Awaiting Final Costs
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			2008-04-30	2008-04-30	ATCO	2006	2,252,496	2,425,000	2,425,000	Direct Assigned to ATCO Feb 6, 2007
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				2010-04-01	2010-04-01	ATCO	2010	75,419,620		75,419,620	Awaiting for EUB Approval of NID Application
568	Fortis Edson 58S Cables	Replace existing 500 MCM 25 kV distribution cable with 750 MCM cable	DFO Load Growth	2006-08-29	2006-09-20	2006-09-26	2006-10-18	2006-10-30	2007-03-01	AML	2006	43,000	43,000	31,280	Complete - Awaiting Final Costs.
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			2008-03-01	2008-11-18	Leth.	2006	2,192,970	2,410,504	2,410,504	Direct Assigned to City of Lethbridge June 8, 2007
584	Fortis South Leduc New Sub	South Leduc New 138/25kV Substation proposed to serve the load growth in the area.	DFO Load Growth					2008-10-01	2008-10-01	AML					IP Review in-progress
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	2008-03-01	2008-03-01	AML	2006	1,800,000	1,827,500	1,827,500	Construction in-progress
593	EPCOR CloverBar Peaker	Substation additions at CloverBar substation First Phase generation (40 MW) connected to existing 72 kV breaker	Natural Gas Fired Generation Addition or Upgrades	2006-11-27	2007-03-06	2007-03-15	2007-04-27	2007-07-01	2008-09-15	EPCOR	2006	2,330,000	2,231,644	2,231,644	Construction in-progress

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613	ATCO-Mariana Sub 833S	25 kV Regulator Addition	DFO Load Growth	2006-09-29	2006-10-24	2007-02-01	2007-03-02	2007-06-30	2007-06-01	ATCO	2007	276,000	407,000	407,000	Complete - Awaiting Final Costs
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	2007-03-15	2007-03-15	ATCO	2007	1,689,000	1,876,000	1,876,000	Complete - Awaiting Final Costs.
620	EPCOR-Petrolia Breaker P84	15 kV breaker addition	DFO Load Growth	2006-09-29	2006-10-24	2006-11-20	2007-01-12	2007-05-01	2007-05-01	EPCOR	2006	62,000	52,443	52,443	Awaiting TFO confirmation work is complete
630	ENMAX No. 37 Feeder Addition	Addition of one feeder originating at No. 37 Substation.	DFO Load Growth					2007-12-31	2007-12-31	ENMAX		487,000		487,000	IP Review in-progress
637	Fortis Tilley 498S Transformer and Breaker Addition	Install a second 138 kV/25 kV supply transformer and 25 kV feeder.	DFO Load Growth					2007-08-01	2008-03-30	AML		3,848,931		3,848,931	IP Review in-progress
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			2008-12-01	2008-12-01	ENMAX		5,214,131		5,214,131	Awaiting PPS Estimate
644	Fortis Blackmud 25 kV Breaker Addition	Addition of a 25 kV breaker at 155S	DFO Load Growth	2006-11-14	2007-03-19	2006-09-15	2007-04-02	2006-12-01	2007-05-04	AML	2006	87,450		87,450	Complete - Awaiting Final Costs
645	FortisAlberta Suffield 25 kV Breaker Add	Addition of a 25 kV breaker at Suffield 895S	DFO Load Growth	2007-01-04	2007-02-16	2007-03-26	2007-04-04	2007-08-02	2007-08-02	AML	2006	381,000	220,000	220,000	Construction in-progress
648	FortisAlberta Sylvan Lake New Substation	New 138/25 kV Substation	DFO Load Growth					2007-12-01	2008-03-01	AML	2007	15,162,375		15,162,375	IP Review in-progress
650	FortisAlberta Burdett Transformer Addition	Installation of a 25/33/42 MVA, 138/25kV transformer.	DFO Load Growth					2008-03-31	2008-03-31	AML					Planning Stage
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					2007-12-01	2008-05-01	AML	2007	4,375,654		4,375,654	IP Review in-progress.

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
652	FortisAlberta Stavely 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					2007-12-01	2007-12-01	AML		4,859,137		4,859,137	Planning Stage
653	FortisAlberta Empress Voltage Regulator replacement	Voltage Regulator replacement	DFO Load Growth					2007-12-01	2007-12-01	AML		300,000		300,000	IP Review in-progress
654	FortisAlberta Red Deer Breaker Addition	New 25 kV breaker and regulator addition	DFO Load Growth					2007-12-01	2007-12-01	AML		647,817		647,817	IP endorsed by Planning June 20, 2007.
655	FortisAlberta Devon 14S Conductor Upgrade	Upgrade overhead conductor from 3/0 to 477 MCM	DFO Reliability Requirements					2006-12-31	2007-11-01	AML	2006	24,100		24,100	Revised IP in-progress
658	Fort Assiniboine Phase 2	Install two 138/25 kV 15/20/25 MVA LTC transformers, remove the installed operational spare transformer, and install two 25 kV breakers.	DFO Load Growth					2008-05-01	2008-05-01	AML	2007	8,378,211		8,378,211	IP Review in-progress
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			2008-06-01	2008-06-01	ATCO	2008	5,341,440		5,341,440	Awaiting PPS.
672	Northern Prairie Power Project	144 kV Interconnection to Poplar Hill Gas Turbine Peaking Power Plant	Natural Gas Fired Generation Addition or Upgrades					2008-09-01	2008-09-01	ATCO					Customer Application In Progress
682	Enmax No. 7 Transformer Addition	Transformer addition at Enmax # 7 sub due to load growth	DFO Load Growth					2008-11-01	2008-11-01	ENMAX		3,789,093		3,789,093	Planning Stage
683	Kirby In-Situ Oil Sands Plant	Transmission facilities to enable 138kV interconnection of CNRL proposed SAGD Plant	DFO Industrial					2010-12-15	2010-12-15	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				2007-12-01	2007-12-01	AML	2007	777,778		777,778	Awaiting NIF EUB Posting Expiry Period

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
695	Stirling 100 MW Wind Farm	Transmission facilities to supply 100 MW Stirling Wind Farm	Wind Generation Addition or Upgrades					2999-12-31	2999-12-31	AML					Planning Stage
696	Fortis Alberta Boyle 56S Conductor Replacement	Replacement of a conductor at 56S Boyle Sub to meet peak loads	DFO Load Growth					2007-12-01	2007-12-01	AML					Planning Stage
697	Fortis Alberta Sedgewick 25kV breaker	25 kV breaker addition at Sedgewick 137S Sub.	DFO Load Growth					2008-12-01	2008-12-01	AML					Planning Stage
698	Fortis Alberta Fort Saskatchewan 25 kV breaker addition	25 kV breaker addition at Fort Saskatchewan 54S Sub.	DFO Load Growth					2007-12-01	2007-12-01	AML					Planning Stage
700	TransAlta Highvale Mine	Relocation and upgrade of service to dragline	Industrial Interconnection or Expansion					2009-01-01	2009-01-01	AML					Planning Stage
702	Fortis Alberta Hardisty Transformer	Install additional 25/33/42 MVA transformer and a 25kV breaker	DFO Load Growth					2009-12-01	2009-12-01	AML					Planning Stage

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
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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 mutple 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 mutple applications, this is the date the last application is approved.
6. Planned ISD: In coloboration 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 escalation 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.