

AESO Transmission System Projects - Quarterly Report - Q3 2011

- see notes at the end of this document for report terminology and definitions
 - data in report is current as of October 25, 2011



| Project Name and Number | Need Application Filing | Need Application Approval | Need Application Estimated Cost ³ | TFO | Facility Application Number | Facility Application Name | Facility Application Filing | Facility Application Approval | Proposal To Provide Service Estimated Cost | Authorized Budget | Energization Number | Energization Name | Forecast In-Service Date | | | |
|--|---|---------------------------|--|------------------|-----------------------------|--|-----------------------------|-------------------------------|--|-------------------|---------------------|---|--------------------------|--------------|--|---------------|
| 535 - North West Transmission Development | Mar 06, 2006 | Aug 17, 2006 | \$312,000,000 | ATCO | 1 | 9L15 240kV Wesley Creek 834S to Brintnell 876S, 2 300MVA Tx P598 (Formerly P598) | Jun 19, 2007 | Nov 23, 2007 | \$208,329,000 | \$208,329,000 | 1 | Bkr 701 | Sep 03, 2009 | | | |
| | | | | | | | | | | | 2 | 902T, 903, 503 | Dec 19, 2009 | | | |
| | | | | | | | | | | | 3 | 902 | Feb 03, 2010 | | | |
| | | | | | | | | | | | 4 | 909, 909R | Dec 18, 2009 | | | |
| | | | | | | | | | | | 5 | 9L15 | Dec 18, 2009 | | | |
| | | | | | | | | | | | 6 | 901, 901T | Mar 19, 2010 | | | |
| | | | | | | | | | | | 7 | 904 | Oct 01, 2009 | | | |
| | | | | | | | | | | | 8 | 7L131/7L106 144kv D/C line Wesley Creek to Meikle 905S & CTs | Jul 29, 2008 | Dec 19, 2008 | \$193,189,000 | \$193,189,000 |
| | | | | | 3 | 7L133-144 kv S/C line Sulphur Point 828S to High Level 786S P600 (Formerly P600) | May 19, 2009 | Sep 11, 2009 | \$77,558,000 | \$29,547,000 | 9 | 7L133-144 kv S/C line Sulphur Point 828S to High Level 786S | Mar 19, 2011 | | | |
| | | | | | | | | | | | | | | 4 | High Level 786S +/- 30 MVAR SVC (Formerly P601) | Apr 14, 2009 |
| | | | | | 5 | 7L113-144kv S/C line Ring Creek 853S to New Arcenciel 930S (Formerly P602,P604) | Jun 30, 2010 | Dec 02, 2010 | \$121,246,000 | \$65,903,000 | 11 | New Arcenciel stn, 7L122, 7L93 | Aug 30, 2011 | | | |
| | | | | | | | | | | | | | | 12 | Ring Creek to Arcenciel 144 kV Line 7L113 | Dec 10, 2011 |
| | | | | | | | | | | | | | | 17 | Arcenciel Cap Bank | Dec 10, 2011 |
| | | | | | | | | | | | | | | 18 | 7L64 and 7L109 | Oct 31, 2011 |
| | | | | | | | | | | | | | | 13 | Arcenciel 930S -30 +50 MVAR synch cond (Formerly P603) | Mar 01, 2013 |
| | | | | | | | | | | | | | | 14 | Arcenciel 930S +/- 30 MVAR SVC P605 (Formerly P605) | Sep 07, 2011 |
| 7 | Arcenciel 930S +/- 30 MVAR SVC P605 (Formerly P605) | Jun 30, 2010 | Dec 02, 2010 | \$12,050,000 | \$10,949,000 | 15 | Bkrs 717 and 718 | Sep 03, 2009 | | | | | | | | |
| | | | | | | | | | 16 | SVC | Mar 31, 2010 | | | | | |
| 536 - South East Transmission Reinforcement | Sep 27, 2007 | Jul 11, 2008 | \$74,500,000 | Lethbridge | 1 | City of Lethbridge | Mar 15, 2009 | Jan 22, 2010 | \$5,000,000 | \$5,000,000 | 1 | All Phase 1 Lethbridge Equipment | May 14, 2010 | | | |
| | | | | | 2 | AML North Lethbridge | Feb 24, 2009 | Nov 06, 2009 | \$7,953,000 | \$9,274,000 | 2 | All Phase 1 AltaLink Equipment | May 28, 2010 | | | |
| | | | | AltaLink | 3 | Brooks Area Transmission Development | Dec 18, 2008 | Mar 17, 2009 | \$1,464,000 | \$2,218,000 | 3 | Brooks Area Transmission Development | Sep 30, 2010 | | | |
| | | | | | 4 | Brooks New Transformers | Dec 18, 2008 | Mar 17, 2009 | \$12,956,000 | \$12,956,000 | 4 | Brooks New Transformers | Nov 22, 2009 | | | |
| | | | | | 5 | New 138kV line 666L | May 08, 2009 | Nov 19, 2009 | \$8,015,000 | \$9,874,000 | 5 | New 138kV line 666L | Nov 30, 2011 | | | |
| | | | | | 6 | Brooks 240kV Line Upgrades | Mar 20, 2009 | Apr 22, 2009 | \$455,800 | \$455,800 | 6 | Brooks 240kV Line Upgrades | Nov 30, 2010 | | | |
| | | | | | 7 | New 27MVar Cap Bank at Tilley 498S | Mar 20, 2009 | Apr 23, 2009 | \$2,349,000 | \$2,349,000 | 7 | New 27MVar Cap Bank at Tilley 498S | Mar 22, 2010 | | | |
| | | | | ATCO | 8 | 9L933/934 & 9L950 Upgrade | Aug 27, 2007 | Mar 10, 2008 | \$1,477,000 | \$1,477,000 | 8 | 9L933/934 & 9L950 Upgrade | Nov 30, 2010 | | | |
| | | | | AltaLink | 9 | New Cypress Substation 562S | Dec 23, 2008 | Apr 28, 2008 | \$35,629,000 | \$37,630,000 | 9 | New Cypress Substation 562S | Mar 5, 2010 | | | |
| | | | | | 10 | Jenner 240kV Diameter Addition | Dec 12, 2008 | Mar 02, 2009 | \$5,176,000 | \$5,254,000 | 10 | Jenner 240kV Diameter Addition | Oct 23, 2009 | | | |
| | | | | | 11 | Cypress 669L | Dec 23, 2008 | Apr 28, 2009 | Included in FA 9 | Included in FA 9 | 11 | Cypress 669L | Feb 25, 2010 | | | |
| | | | | | 12 | Cypress 658L/668L | Dec 23, 2008 | Apr 28, 2009 | Included in FA 9 | Included in FA 9 | 12 | Cypress 658L/668L | Feb 25, 2010 | | | |
| | | | | | 13 | Cypress 830L | Dec 23, 2008 | Apr 28, 2009 | Included in FA 9 | Included in FA 9 | 13 | Cypress 830L | Apr 11, 2010 | | | |
| | | | | | 14 | 975L, 1011L | Dec 23, 2008 | Apr 28, 2009 | Included in FA 9 | Included in FA 9 | 14 | 975L, 1011L | Jan 27, 2010 | | | |
| | | | | | 15 | Jenner 951L,1002L Line in and out | Dec 12, 2008 | Mar 02, 2009 | Included in FA 10 | Included in FA 10 | 15 | Jenner 951L,1002L Line in and out | Sep 30, 2009 | | | |
| | | | | | 16 | Amoco Empress Thermal Upgrades | Dec 12, 2008 | Mar 02, 2009 | \$2,737,000 | \$3,547,000 | 16 | Amoco Empress Thermal Upgrades | Oct 30, 2009 | | | |
| | | | | | 17 | Jenner Thermal Upgrades | Dec 12, 2008 | Mar 02, 2009 | Included in FA 16 | Included in FA 16 | 17 | Jenner Thermal Upgrades | Sep 30, 2009 | | | |
| | | | | | ATCO | 18 | McNeil 840S Cap Bank | Aug 04, 2009 | Dec 01, 2009 | \$4,653,000 | \$2,324,000 | 18 | McNeil 840S Cap Bank | Jul 13, 2010 | | |
| 626 - ENMAX South 69kV Conversion | Apr 09, 2009 | Jan 13, 2012 | \$22,242,000 | ENMAX | 1 | Enmax South 69kV Stage 1 | Apr 16, 2009 | Jan 13, 2012 | \$11,320,000 | \$11,320,000 | 1 | Enmax South 69kV Stage 1 | Jul 19, 2013 | | | |
| | | | | | 2 | Enmax South 69kV Stage 2 | Mar 30, 2010 | Jan 13, 2012 | \$4,906,000 | \$4,906,000 | 2 | Enmax South 69kV Stage 2 | Aug 17, 2012 | | | |
| | | | | | 3 | Enmax South 69kV Stage 3 | Dec 23, 2010 | Jan 13, 2012 | \$7,610,000 | \$7,610,000 | 3 | Enmax South 69kV Stage 3 | Sep 20, 2013 | | | |
| 629 - Alberta Industrial Heartland Bulk Transmission Development | CTI | Dec 09, 2009 | CTI | AltaLink & EPCOR | 1 | 500kV 1206L/1212L (Formerly P629) | Sep 27, 2010 | Nov 01, 2011 | \$579,613,000 | \$579,613,000 | 1 | 1206L/1212L | Mar 29, 2013 | | | |
| | | | | AltaLink | 2 | Heartland 12S Ellerslie 89S and 1054L/1061L(Formerly P1066) | Sep 27, 2010 | Nov 01, 2011 | | | 2 | Heartland 12S Ellerslie 89S and 1054L/1061L | Mar 29, 2013 | | | |
| 671 - Yellowhead Area Transmission Development | Jun 09, 2009 | May 12, 2010 | \$98,800,000* | AltaLink | 1 | Hinton/Edson Area Transmission (Formerly P909) | Aug 05, 2010 | Apr 29, 2011 | \$51,364,000 | \$51,364,000 | 1 | Hinton/Edson Area Transmission 745L and 671L at Bickerdike | Feb 15, 2012 | | | |
| | | | | | | | | | | | 11 | Bickerdike 2 breakers | Dec 19, 2011 | | | |
| | | | | | 2 | Cold Creek 602S 138kV, 27 MVAR Capacitor Bank (Formerly P910) | Jul 08, 2010 | Aug 16, 2010 | \$2,254,000 | \$2,254,000 | 2 | Cold Creek 602S 138kV, 27 MVAR Capacitor Bank | Feb 09, 2011 | | | |
| | | | | | | | | | | | 3 | Cherhill Substation and 240kV Interconnection (Formerly P911) | Jul 26, 2010 | Apr 22, 2011 | \$30,500,000 | \$30,510,000 |
| | | | | | 4 | Drayton Valley Area 138kV Transmission (Formerly P912) | Jul 30, 2010 | Apr 29, 2011 | \$41,856,000 | \$43,069,000 | 5 | Amoco Brazeau 358S Cap Bank | Aug 24, 2011 | | | |
| | | | | | | | | | | | 6 | Cynthia 178S Cap Bank | Sep 11, 2011 | | | |
| | | | | | | | | | | | 7 | Brazeau 62S breaker on Oct 6 and Cap Bank on Oct 13 | Oct 13, 2011 | | | |
| | | | | | | | | | | | 8 | Entwistle 235S/672L/Moon Lake 131S Breaker and T1. Remove 2 69 kV trans from Moon Lake, salvage 129L Entwistle to Moon Lake | Sep 14, 2011 | | | |
| | | | | | | | | | | | 9 | Moon Lake 131S/673L/Violet Grove 283S | Dec 20, 2011 | | | |
| | | | | | | | | | | | 10 | Entwistle 235S T1 | Dec 13, 2011 | | | |
| 12 | New Breaker at Violet Grove | Oct 04, 2011 | | | | | | | | | | | | | | |
| 673 - Ft McMurray Area 144 kV Reinforcement | Jul 29, 2010 | Apr 14, 2011 | \$38,489,000 | ATCO | 1 | All facilities | Aug 03, 2010 | Apr 14, 2011 | \$31,537,000 | \$28,491,000 | 1 | All Project Equipment | Apr 29, 2012 | | | |
| 737 - North South Transmission Reinforcement | CTI | Dec 09, 2009 | CTI | ATCO | 1 | ATCO East DC Facilities (Currently know to TFO as P961) | Mar 29, 2011 | Jun 29, 2009 | \$1,775,755,000 | \$1,775,755,000 | 1 | ATCO East DC Facilities | Jun 30, 2014 | | | |
| | | | | AltaLink | 3 | AltaLink East DC Facilities (Currently know to TFO as P961) | Mar 29, 2011 | Jun 29, 2012 | \$42,551,000 | \$42,551,000 | 3 | AltaLink East DC Facilities | Jun 30, 2014 | | | |
| | | | | EPCOR | 4 | EPCOR East DC Facilities (Currently know to TFO as P961) | Mar 29, 2011 | Jun 29, 2012 | \$120,000 | \$120,000 | 4 | EPCOR East DC Facilities | Jun 30, 2014 | | | |

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|---|-------------------------|--|--|------------------|-----------------------------|---|-----------------------------|--|--|-------------------|---------------------|---|--------------------------|
| | | | | AltaLink & EPCOR | 2 | AltaLink/EPCOR West DC Facilities (Currently known to TFO as P962) | Mar 01, 2011 | May 31, 2012 | \$1,542,205,000 | \$1,542,205,000 | 2 | All AltaLink/EPCOR Equipment | Oct 14, 2014 |
| 786 - Edmonton Region 240kV Line Upgrades | Aug. 26, 2008 | Feb 24, 2009 | \$125,410,000 | AltaLink | 1 | AML Keephills Substation Addition(Formerly P953) | Nov 06, 2009 | Mar 19, 2010 | \$101,345,000 | \$111,934,000 | 1 | Keephills substation addition | Jul 31, 2010 |
| | | | | | 2 | Rebuild 240kV 904L | Jul 28, 2010 | Aug 12, 2011 | | | 2 | 12km new 904L (renumbered as 1043L) | Jan 29, 2013 |
| | | | | | 4 | AML 902L Restrung & 909L Retermination (Formerly P1057) | Aug 05, 2011 | Jan 11, 2012 | | | 11 | 50km of rebuild 904L (1043L) | Jan 29, 2013 |
| | | | | | 5 | AML 908L, 909L Restrung (Formerly P1058) | Sep 13, 2009 | Feb 10, 2010 | | | 4 | 902L restrung | Mar 05, 2013 |
| | | | | | 6 | Epoch Jasper, Petrolia (Formerly P955) | Apr 15, 2010 | Jun 16, 2010 | | | 5 | 909L re-terminate back to Sundance | Jan 10, 2013 |
| | | | | | 3 | 1044EL, 1045EL (Formerly P955) | Oct 15, 2010 | Aug 12, 2011 | | | 6 | 1045 restrung, renumber line 1044L, 1044EL, 1045EL | Mar 20, 2011 |
| | | | | | 7 | ATCO Phase Shifter (Formerly P957) | Sep 14, 2009 | Mar 25, 2010 | | | 7 | 909L Restrung | Mar 20, 2011 |
| | | | | | 8 | TransAlta 902L, 1043L (Formerly P959) | Aug 05, 2011 | Jan 11, 2012 | | | 8 | Jasper, Petrolia substation switchgear | Jun 14, 2011 |
| 787 - Southern Alberta Transmission Reinforcement | Dec 30, 2008 | Sep 17, 2009 | \$3,439,000,000 | AltaLink | 1 | 911L Line Replacement(Formerly P882) | Dec 02, 2011 | Mar 07, 2013 | Future | Future | 1 | 911L | Dec 17, 2014 |
| | | | | | 2 | Milo Junction Switching Station(Formerly P883) | Dec 21, 2009 | Aug 05, 2010 | \$29,700,000 | \$29,700,000 | 2 | New Milo Junction | Oct 31, 2011 |
| | | | | | 3 | PST Addition at Russell 632S(Formerly P884) | Aug 27, 2010 | Jan 12, 2011 | \$17,207,000 | \$17,207,000 | 3 | Russell PST | Nov 25, 2011 |
| | | | | | 4 | Cassils to Bowmanton (Formerly P886) | Jul 27, 2010 | Jun 08, 2011 | \$407,909,000 | \$407,909,000 | 4 | Cassils to Medicine Hat | Mar 25, 2014 |
| | | | | | 5 | Bowmanton to Whitla 240kV Transmission Line(Formerly P887) | Jul 27, 2010 | Jun 08, 2011 | \$352,754,000 | \$352,754,000 | 5 | East Med Hat to Whitla 240kV Transmission Line | Mar 31, 2014 |
| | | | | | 6 | Med Hat Area 138kV Line Development(Formerly P888) | Aug 16, 2011 | Jun 19, 2012 | Future | Future | 6 | Med Hat Area 138kV Line Development | May 30, 2014 |
| | | | | | 7 | Chapel Rock Sub and 240kV line to Fidler(Formerly P1034) | Mar 13, 2012 | Apr 09, 2013 | Future | Future | 7 | Chapel Rock Sub and 240kV line to Fidler | May 30, 2014 |
| | | | | | 8 | Etzikom Culee S/S and 240kV line to Picture Butte S/S(Formerly P1035) | Feb 22, 2012 | Mar 20, 2013 | Future | Future | 8 | Sub C and 240kV line to MATL S/S | Apr 27, 2015 |
| | | | | | 9 | Goose Lake S/S to Etzikom Culee S/S 240kV Line(Formerly P1036) | Sep 10, 2012 | Oct 04, 2013 | Future | Future | 9 | Goose Lake S/S to Sub C 240kV Line | Jun 29, 2015 |
| | | | | | 10 | Etzikom Culee S/S to Whitla 240kV Line(Formerly P1037) | Mar 23, 2012 | Apr 18, 2013 | Future | Future | 10 | Sub C to Whitla 240kV Line | Jan 22, 2015 |
| | | | | | 11 | Blackie Area 138kV Upgrade (Formerly P1038) | Jan 09, 2012 | Jul 08, 2012 | Future | Future | 11 | Blackie Area 138kV Upgrade | Dec 31, 2013 |
| | | | | | 12 | Cypress Substation SVC (Formerly P1039) | Jan 18, 2012 | Mar 14, 2012 | Future | Future | 12 | Cypress Substation SVC | Jan 30, 2014 |
| | | | | | 13 | Ware Junction Substation Upgrade(Formerly P1040) | Apr 05, 2011 | May 09, 2012 | \$6,134,000 | \$6,134,000 | 13 | Ware Junction Substation Upgrade | Dec 14, 2012 |
| 791 - North Ft McMurray Transmission Development | Aug 12, 2010 | Jun 24, 2011 | \$237,440,000 | ATCO | 1 | North Fort McMurray 240 kV Transmission Development | Sep 10, 2010 | Jul 28, 2011 | \$237,440,000 | \$195,110,000 | 1 | McLelland to Black Fly | Apr 29, 2012 |
| | | | | | 2 | | | | | | 2 | Salt Creek to Black Fly | Apr 01, 2013 |
| 811 - Central East Area Transmission Development | May 17, 2010 | Feb 21, 2011 | \$431,000,000 | ATCO | 1 | Cold Lake Area Reinforcements - Except Bonnyville | Nov 30, 2011 | Jun 13, 2012 | \$139,571,000 | \$139,571,000 | 1 | Cold Lake Area Reinforcements - Except Bonnyville | Mar 01, 2013 |
| | | | | | 2 | Cold Lake Area Reinforcements - Bonnyville | Nov 30, 2011 | Jun 13, 2012 | Included in FA 1 | Included in FA 1 | 2 | Cold Lake Area Reinforcements - Bonnyville | Aug 01, 2013 |
| | | | | | 3 | St. Paul Area Upgrades - Watt Lake, 7LA92 | Nov 30, 2011 | Jun 13, 2012 | \$50,847,000 | \$50,847,000 | 3 | St. Paul Area Upgrades - Watt Lake and 7LA92 | Dec 01, 2012 |
| | | | | | 4 | St. Paul Area Upgrades - St Paul 707S, Whitby Lake 819S & 7L139/7L70 | Nov 30, 2011 | Jun 13, 2012 | Included in FA 3 | Included in FA 3 | 4 | St. Paul Area Upgrades - St Paul 707S, Whitby Lake 819S & 7L139/7L70 | Oct 01, 2013 |
| | | | | | 5 | Vermillion 710S Substation Upgrade | Nov 30, 2011 | Jun 13, 2012 | \$6,697,000 | \$6,697,000 | 5 | Vermillion 710S Substation Upgrade | Oct 01, 2012 |
| | | | | | 6 | Heisler Area Upgrades | Nov 30, 2011 | Jun 13, 2012 | \$33,508,000 | \$33,508,000 | 6 | Heisler Area Upgrades | Nov 01, 2012 |
| | | | | | 7 | Kitscoty Area Upgrades | Nov 30, 2011 | Jun 13, 2012 | Included in FA 6 | Included in FA 6 | 7 | Kitscoty Area Upgrades | Jul 01, 2013 |
| | | | | | 8 | 7L749 Replacement | Nov 30, 2011 | Jun 13, 2012 | \$33,170,000 | \$33,170,000 | 8 | 7L749 Replacement | Nov 01, 2013 |
| | | | | | 9 | Double Circuit Line Clearance Mitigations (Letter of Enquiry) | Nov 30, 2011 | Jun 13, 2012 | \$13,283,000 | \$13,283,000 | 9 | Double Circuit Line Clearance Mitigations (Letter of Enquiry) | Dec 31, 2012 |
| | | | | AltaLink | 10 | Provost & Wainwright Area Upgrades | May 08, 2012 | Nov 20, 2012 | Future | Future | 10 | New 138 kV S/C line (409L) from Provost 545S to Hayter 277S | Sep 01, 2013 |
| | | | | | 11 | | | | | | 11 | Rebuild existing S/C line (748L) from Hayter 277S to Killarney Lake 267S | Sep 01, 2013 |
| | | | | | 12 | | | | | | 12 | Rebuild existing S/C line (715L/715AL) from Hansman Lake 650S to Porvost 545S | Oct 01, 2013 |
| | | | | | 13 | | | | | | 13 | Addition of 138/69kV transformer addition and alterations at Wainwright 51S | Nov 01, 2013 |
| | | | | | 14 | | | | | | 14 | New 138 kV S/C line (415L) from Wainwright to Edgerton | Nov 01, 2013 |
| | | | | | 15 | | | | | | 15 | Rebuild existing S/C line (749L) from Metiskow 648S to AltaLink/ATCO service boundary | Feb 01, 2014 |
| | | | | | 16 | | | | | | 16 | New 138 kV D/C line (407L/410L) from Killarney Lake 267S to rebuilt 749L and salvage of existing line (749AL) | May 01, 2014 |
| | | | | | 17 | | | | | | 17 | Rebuild existing lines (704/704AL) that will connect Wainwright 51S to Jarrow 252S and Tucuman 478S | Sep 01, 2014 |
| ATCO / AltaLink | 11 | 7L50 Rebuild | Oct 19, 2015 | May 02, 2016 | Future | Future | 18 | 7L50 Rebuild | Dec 01, 2017 | | | | |
| | 12 | Cold Lake Reinforcement (2017) - 240kV | Sep 07, 2015 | Mar 21, 2016 | Future | Future | 19 | Cold Lake Reinforcement (2017) - 240kV | Dec 01, 2017 | | | | |
| | | | | | 1 | Youngstown 772S Capacitor bank addition(Formerly P977) | Aug 09, 2010 | Nov 15, 2010 | \$6,289,000 | \$5,932,000 | 1 | Youngstone 772S Capacitor bank addition | Oct 06, 2011 |
| | | | | | 2 | Battle River 757S Capacitor Bank addition(Formerly P978) | Aug 09, 2010 | Aug 27, 2010 | \$3,002,000 | \$2,831,000 | 2 | Battle River 757S Capacitor Bank addition | Oct 03, 2011 |
| | | | | | 3 | New Lanfine 240/144kV substation(Formerly P979) | Dec 21, 2010 | Mar 15, 2012 | \$38,745,000 | \$36,543,000 | 3 | New Lanfine 240/144kV substation | Sep 30, 2012 |
| | | | | | 4 | Lanfine 959S 200MVAr SVC(Formerly P980) | Mar 03, 2011 | Mar 15, 2012 | \$39,360,000 | \$37,123,000 | 4 | Lanfine 959S 200MVAr SVC | Sep 30, 2012 |
| | | | | | 5 | Lanfine-Oyen 144kV S/C Line 7L132(Formerly P982) | Mar 21, 2011 | Mar 15, 2012 | \$15,623,000 | \$14,735,000 | 5 | Lanfine-Oyen 144kV S/C Line 7L132 | Sep 30, 2012 |

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|---|-------------------------|---------------------------|--|---|--------------------------------|--|-----------------------------|-------------------------------|--|---|--------------------------------|--|--------------------------|--------------|---|---|--------------|
| 812 - Hanna Region Transmission Development | Aug 14, 2009 | Apr 29, 2010 | \$983,000,000 | ATCO | 6 | Relocate 7L98 Oyen 767S - Lanfine 959S(Formerly P995) | Mar 21, 2011 | Mar 15, 2012 | \$12,770,000 | \$12,044,000 | 6 | Relocate 7L98 Oyen 767S - Lanfine 959S | Sep 30, 2012 | | | | |
| | | | | | 7 | Oakland 946S 240kV S/S combined with Anderson-Oakland line (Formerly P996) | Nov 25, 2010 | Mar 15, 2012 | \$45,467,000 | \$43,749,000 | 7 | Oakland 946S 240kV S/S combined with Anderson-Oakland line | Sep 30, 2012 | | | | |
| | | | | | 8 | Oakland-Lanfine 240kV S/C Line 9L924(Formerly P998) | Dec 21, 2010 | Mar 15, 2012 | \$119,927,000 | \$113,110,000 | 8 | Oakland-Lanfine 240kV S/C Line 9L924 | Sep 30, 2012 | | | | |
| | | | | | 9 | Coyote Lake 963S 240kV S/S combined with Oakland-Coyote line (Formerly P999) | Feb 07, 2011 | Mar 15, 2012 | \$77,799,000 | \$73,377,000 | 9 | Coyote Lake 963S 240kV S/S combined with Oakland-Coyote line | Mar 29, 2013 | | | | |
| | | | | | 10 | Coyote Lake 963S - Michichi Creek 802S 144kV SC Line 7L128 (Formerly P1000) | Apr 08, 2011 | Mar 15, 2012 | \$39,251,000 | \$37,020,000 | 10 | Coyote Lake 963S - Michichi Creek 802S 144kV SC Line 7L128 | Mar 29, 2013 | | | | |
| | | | | | 11 | Pemukan 932S 240 kV Substation(Formerly P1001) | Jan 24, 2010 | Mar 15, 2012 | \$32,490,000 | \$30,643,000 | 11 | Pemukan 932S 240 kV Substation | Sep 30, 2012 | | | | |
| | | | | | 12 | New Lanfine-Pemukan 240kV S/C Line 9L46(Formerly P1003) | Mar 03, 2011 | Mar 15, 2012 | \$97,239,000 | \$91,712,000 | 12 | New Lanfine-Pemukan 240kV S/C Line 9L46 | Mar 29, 2013 | | | | |
| | | | | | 13 | 144 kV Capacitor Bank and Circuit Breaker Additions at Three Hills Substation 770S(Formerly P1022) | Oct 08, 2010 | Dec 23, 2010 | \$27,037,000 | \$25,500,000 | 13 | 144 kV Capacitor Bank and Circuit Breaker Additions at Three Hills Substation 770S | Dec 01, 2011 | | | | |
| | | | | | 14 | Hansman Lake - Pemukan 240kV S/C Line 9L966(Formerly P1011) | Jan 24, 2011 | Mar 15, 2012 | \$67,685,000 | \$63,838,000 | 14 | Hansman Lake - Pemukan 240kV S/C Line 9L966 | Sep 30, 2012 | | | | |
| | | | | | 15 | Pemukan 932S - Monitor 774S 144kV S/C Line 7L127(Formerly P1013) | Jan 24, 2011 | Mar 15, 2012 | \$14,311,000 | \$13,498,000 | 15 | Pemukan 932S - Monitor 774S 144kV S/C Line 7L127 | Sep 30, 2012 | | | | |
| | | | | | 16 | Relocate 7L79 line from Monitor 774S - Pemukan 932S(Formerly P1015) | Jan 24, 2011 | Mar 15, 2012 | \$10,259,000 | \$9,676,000 | 16 | Relocate 7L79 line from Monitor 774S - Pemukan 932S | Sep 30, 2012 | | | | |
| | | | | | 17 | Heatburg 948S - Three Hills-Nevis 144kV D/C Line 7L16/7L159 (Formerly P1021) | Nov 30, 2011 | Mar 15, 2012 | \$14,843,000 | \$13,999,000 | 17 | Heatburg 948S - Three Hills-Nevis 144kV D/C Line 7L16/7L159 | Jun 15, 2012 | | | | |
| | | | | | 18 | Rowley 768S - Michichi-Three Hills 144kV DC Line 7L25 (Formerly P1022) | Nov 22, 2010 | May 17, 2011 | Included in FA 13 | Included in FA 13 | 18 | Rowley 768S - Michichi-Three Hills 144kV DC Line 7L25 | Apr 13, 2012 | | | | |
| | | | | | 19 | Stettler 769S - Nevis 768S 144kV S/C Line 7L143 (Formerly P1023) | Jun 03, 2011 | Apr 02, 2012 | \$41,285,000 | \$38,938,000 | 19 | Stettler 769S - Nevis 768S 144kV S/C Line 7L143 | Mar 29, 2013 | | | | |
| | | | | | 20 | Nilrem 574S combined with D/C 240kV 953L -1047L and Tucumar 478S combined with D/C 138kV 679L-680L(Formerly P1024,P1025) | Nov 15, 2010 | Oct 17, 2011 | \$76,496,000 | \$81,753,000 | 20 | Nilrem 574S combined with D/C 240kV 953L -1047L and Tucumar 478S combined with D/C 138kV 679L-680L | Apr 13, 2012 | | | | |
| | | | | | 21 | Hardisty 377S Substation Capacitor Bank(Formerly P1024,P1025) | Nov 29, 2010 | May 03, 2011 | Included in FA 20 | Included in FA 20 | 21 | Hardisty 377S Substation Capacitor Bank | Apr 13, 2012 | | | | |
| | | | | | 22 | Hansman Lake 650S Substation Static VAR Compensator Addition (Formerly P1026,P1027) | Nov 29, 2010 | Apr 27, 2011 | \$82,356,000 | \$82,830,000 | 22 | Hansman Lake 650S Substation Static VAR Compensator Addition | Jun 29, 2012 | | | | |
| | | | | | 23 | New 240 kV line 966L from Pemukan 932S -Hansman Lake 650S (Formerly P1026,P1027) | Dec 06, 2010 | Feb 28, 2012 | Included in FA 22 | Included in FA 22 | 23 | New 240 kV line 966L from Pemukan 932S -Hansman Lake 650S | Sep 30, 2012 | | | | |
| | | | | | 24 | New 240kV line 1060L from Ware Junction 132S-West Brooks 28S (Formerly P1028) | Apr 05, 2011 | Apr 20, 2012 | \$78,657,000 | \$77,267,000 | 24 | New 240kV line 1060L from Ware Junction 132S-West Brooks 28S | Dec 14, 2012 | | | | |
| | | | | 813 - Red Deer Transmission Development | May 18, 2011 | Jan 25, 2012 | \$215,540,000 | AltaLink | 1 | Red Deer Area Transmission Development Stage I - Brownfield | Sep 26, 2011 | Mar 31, 2012 | \$20,720,000 | \$20,720,000 | 1 | Red Deer Area Transmission Development Stage I - Brownfield | Oct 30, 2012 |
| | | | | | | | | | 2 | Red Deer Area Transmission Development Stage I - Rebuilds | Jun 13, 2012 | Jul 20, 2013 | Future | Future | 2 | Red Deer Area Transmission Development Stage I - Rebuilds | Mar 24, 2014 |
| | | | | | | | | | 3 | Red Deer Area Transmission Development Stage I - New Builds | Apr 13, 2012 | May 05, 2013 | Future | Future | 3 | Red Deer Area Transmission Development Stage I - New Builds | Jul 11, 2014 |
| | | | | | | | | | 4 | Red Deer Area Transmission Development Stage I - Salvage | May 30, 2013 | Aug 30, 2013 | Future | Future | 4 | Red Deer Area Transmission Development Stage I - Salvage | Jun 13, 2014 |
| | | | | | | | | | 5 | Red Deer Area Transmission Development Stage II | Aug 19, 2016 | Mar 03, 2017 | Future | Future | 5 | Red Deer Area Transmission Development Stage II | Dec 08, 2017 |
| 817 - North Central Region Transmission Development | Jul 08, 2009 | May 06, 2010 | \$50,762,000 | ATCO | 1 | 2x 25kV Breaker addition at Fieldgate | Sep 10, 2009 | May 06, 2010 | \$1,196,000 | \$1,196,000 | 1 | Fieldgate Breakers | Aug 19, 2010 | | | | |
| | | | | | 2 | Slave Lake 72 kV Upgrade | Jul 15, 2011 | Sep 30, 2011 | \$4,435,000 | \$4,018,000 | 2 | Slave Lake 72 kV System Upgrade | Mar 23, 2012 | | | | |
| | | | | | 3 | High Prairie to Triangle 144 kV Line Upgrade | Sep 02, 2011 | May 10, 2012 | \$36,660,000 | \$33,559,000 | 3 | High Prairie to Triangle 144 kV Line Upgrade | Mar 15, 2013 | | | | |
| | | | | | 4 | Ottawau to Mitsue 144 kV Line Upgrade | Nov 21, 2011 | Jun 22, 2012 | \$9,390,000 | \$8,589,000 | 4 | Ottawau to Mitsue 144 kV Line Upgrade | Jun 7, 2013 | | | | |
| | | | | | 5 | Edith Lake to Sarah Lake 144 kV Line | Nov 25, 2011 | Aug 10, 2012 | \$18,530,000 | \$16,948,000 | 5 | Edith Lake to Sarah Lake 144 kV Line | Jun 14, 2013 | | | | |
| 834 - Livock 240/144kV Reinforcement Project | Sep 10, 2010 | Apr 28, 2011 | \$25,117,000 | ATCO | 1 | All Project Facilities | Sep 27, 2010 | Apr 28, 2011 | \$23,027,000 | \$23,496,000 | 1 | All Project Equipment | Mar 31, 2012 | | | | |
| 838 - Fort McMurray Area Transmission Bulk System Reinforcement | CTI | Dec 09, 2009 | CTI - Competitive Procurement | TBD | 1 | Fort McMurray Area Bulk System Development Stage 1-Phase 1 (Formerly P1010) | TBD | TBD | Future | Future | 1 | All Phase 1 Equipment | Mar 31, 2017 | | | | |
| | | | | TBD | 2 | Fort McMurray Area Bulk System Development Stage 2-Phase 1 (Formerly P1012) | TBD | TBD | Future | Future | 2 | All Phase 2 Equipment | Mar 31, 2019 | | | | |
| | | | | TBD | 3 | Fort McMurray Area Bulk System Development Stage 3-Phase 1 (Formerly P1014) | TBD | TBD | Future | Future | 3 | All Phase 3 Equipment | Mar 31, 2021 | | | | |
| 878 - Athabasca Area Telecommunication Upgrade | Sep 24, 2010 | Nov 14, 2011 | \$17,884,000 | AltaLink | 1 | All Project Facilities | Dec 17, 2010 | Dec 07, 2011 | \$20,086,000 | \$20,086,000 | 1 | All Project Equipment | Jun 01, 2012 | | | | |
| 922 - ENMAX No. 65 Substation | CTI | Dec 09, 2009 | CTI | ENMAX | 1 | New 240/138 kV Substation | Dec 17, 2010 | Dec 30, 2011 | \$31,138,000 | \$31,138,000 | 1 | ENMAX No.65 138/240 kV Substation | Jul 03, 2013 | | | | |
| | | | | AltaLink | 2 | ENMAX No. 65 I/C to 911L | Feb 16, 2011 | Dec 30, 2011 | \$6,903,000 | \$6,903,000 | 2 | Interconnection of Enmax No. 65 SS to 911L | Jul 03, 2013 | | | | |
| 936 - Pincher Creek Area 240/138 kV Transmission Development | Jun 16, 2010 | May 18, 2012 | \$39,420,000 | AltaLink | 1 | All Project Facilities | Oct 15, 2010 | May 23, 2012 | \$36,816,000 | \$36,816,000 | 1 | All Project Equipment | Apr 23, 2013 | | | | |
| 947 - Long Range Airdrie Area System Development | May 27, 2011 | Jan 06, 2012 | \$36,845,000 | AltaLink | 1 | All Project Facilities | Jun 30, 2011 | Mar 14, 2012 | \$37,907,000 | \$37,907,000 | 1 | All Project Equipment | Nov 28, 2012 | | | | |
| 1092 - North East Voltage Support | Dec 17, 2010 | Sep 01, 2011 | \$18,661,000 | ATCO | 1 | Dover 240kV Capacitor Bank | Jan 11, 2011 | Sep 01, 2011 | \$6,966,000 | \$6,477,000 | 1 | Dover 240kV Capacitor Bank | Apr 30, 2012 | | | | |
| | | | | 2 | Whitefish 240kV Capacitor Bank | Jan 11, 2011 | Sep 01, 2011 | \$6,083,000 | \$6,019,000 | 2 | Whitefish 240kV Capacitor Bank | Mar 30, 2012 | | | | | |
| | | | | AltaLink | 3 | Leismer 138kV Capacitor Bank | Jan 20, 2011 | Sep 01, 2011 | \$5,188,000 | \$5,188,000 | 3 | Leismer 138kV Capacitor Bank | May 01, 2012 | | | | |

AESO Transmission System Projects - Quarterly Report - Q3 2011

- see notes at the end of this document for report terminology and definitions
 - data in report is current as of October 25, 2011



| Project Name and Number | Need Application Filing | Need Application Approval | Need Application Estimated Cost ³ | TFO | Facility Application Number | Facility Application Name | Facility Application Filing | Facility Application Approval | Proposal To Provide Service Estimated Cost | Authorized Budget | Energization Number | Energization Name | Forecast In-Service Date |
|--|-------------------------|---------------------------|--|----------|-----------------------------|--------------------------------|-----------------------------|-------------------------------|--|-------------------|---------------------|--------------------------------|--------------------------|
| 1101 - Christina Lake Area Development | Oct 20, 2011 | Jun 14, 2012 | \$420,000,000 | AltaLink | 1 | CHL1 Black Spruce 154S | Jun 21, 2012 | Jan 17, 2013 | Future | Future | 1 | CHL1 Black Spruce 154S | Jun 27, 2013 |
| | | | | AltaLink | 2 | Black Spruce 154S to Pike 170S | Sep 12, 2012 | May 07, 2013 | Future | Future | 2 | Black Spruce 154S to Pike 170S | Feb 11, 2014 |
| | | | | AltaLink | 3 | Pike 170S to Ipiatik Lake 167S | Sep 12, 2012 | May 22, 2013 | Future | Future | 3 | Pike 170S to Ipiatik Lake 167S | Feb 11, 2015 |
| | | | | ATCO | 4 | ATCO Heart Lake 898S | Sep 12, 2012 | May 22, 2013 | Future | Future | 4 | ATCO Heart Lake 898S | Feb 11, 2015 |

Report Notes:

1. This report includes any System projects that have had a Need Application filed with the AUC. Projects will no longer appear on this report once all Energizations for the Project are in service.
2. Dates in this report show both forecast and actual. Dates that are prior to the report date are actuals. Dates that are post the report date are forecast.

Column Explanations:

1. Project Name and Number: This is the AESO designation for all of the project work that falls under a system study. This will include the Need Application, Facility Application, and Energizations.
2. Need Application Filing: This is the date a Need Identification Document (NID) has been submitted to the AUC for approval as per the requirement of Section 34(1) of the Act.
3. Need Application Approval: This is the date the NID is approved by the AUC.
4. Need Application Estimated Cost: All values include AFUDC and are based on NID ISD\$. Numbers presented with an * have calculated escalation values as escalation \$'s were not included in the NID.
5. TFO: This is the Transmission Facility Owner(s) (TFO) who file the Facility Applications, and are responsible for the estimates, schedule, construction and costs for the project.
6. Facility Application Number: This is used to identify individual Facility Application Filings within the project.
7. Facility Application Name: This is the name of the TFO's Facility Application Filing (sometimes called Permit and License application) that has been registered with the AUC. There may be multiple Facility Applications associated with a Project.
8. Facility Application Filing: This is the date the Facility Application was registered with the AUC.
9. Facility Application Approval: This is the date the Facility Application is approved by the AUC.
10. Proposal To Provide Service Estimated Cost: This is the +20 / -10% estimate that is provided to the AESO by the TFO in the Proposal To Provide Service, in support of the Facility Application.
11. Authorized Budget: This is the amount of the Proposal To Provide Service Estimated Cost, plus or minus any Authorized Changes from TFO that have been approved by the AESO.
12. Energization Number: This is used to identify individual energizations within the project.
13. Energization Name: This is the identifier within the Facility Application of the energization dates of various pieces of equipment. There may be multiple Energizations associated with a Facility Application.
14. Forecast In-Service Date: This is the most recent information the TFO has provided on the expected In Service Date of the equipment within the Energization.