

No	Region of Province	Map Code	Title	Description	Status	Study Schedule	Stakeholder Consultation	Comments
1	NW	A	Northwest Alberta Transmission Development	Preparation of a 10-year transmission plan.	Filed Need Application on March 7/06.	Need Assessment Revision - complete Alternative Screening Revision - complete Evaluation/Recommendation - complete Need Application – Filed Mar 06	Broad stakeholder consultation	Need Application filed in March 06 with the EUB and no objections were received.
2	NE	B	Fort McMurray Local Area Study	(144 kV & 72 kV)	Transmission development on the 144 kV and 72 kV systems in order to accommodate Fort McMurray city and nearby area load growth.	Proceeding with Direct Assignment to ATCO Electric for construction. Need Assessment – complete	Alternative Screening – complete	Evaluation/Recommendation - complete
3	NE	B	North of Fort McMurray Oil Sands Project Interconnections	(240kV)	Develop a conceptual plan for the 240 kV transmission system in order to accommodate major oil sands projects connecting to the 240 kV system north of Fort McMurray.	Reviewing regional system plan with Regulatory for tariff application purposes.	Implementation pending customer interconnections.	Consultation with customers on the conceptual development.
4	NE	C	Northeast Intermediate Need	(Existing Edmonton - Fort McMurray Corridor Enhancements) Rapid on-site load and generation growth due to oil sands production requires transmission line capacity for both high import and export from Alberta's NE region.	Analyze current system capabilities under various load scenarios and determine the system reinforcements required to meet future need. Forecasts of on-site, plant and distribution loads completed; system modeling completed; need analysis completed. Need Assessment - Completed	Alternative Screening – Apr 06	Evaluation/Recommendation – Jun 06	Need Applications – Q3 06

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5	NE	D	Long-Term Northeast Area Planning Study		Onsite load and generation growth for oil sands expansions over the long-term; Additional growth due to pipelines, industries and local infrastructure; long term potential for surplus generation; 20-yr outlook forecasts significant development of cogeneration. Verification of generation and load forecast to 2015 completed.	Stakeholder Information Session – completed	Stakeholder Consultation on Key Assumptions – completed	Need Assessment – Q3 06
7	EC	E	Vegreville, Lloydminster, Wainwright and Provost Area Planning Study	To address low voltage and overloading issues.  This will result in a number of projects.	Preparing/finalizing Need Application.	Need Assessment – complete Alternative Screening – complete Evaluation/Recommendation – Q2 06 Need Application – Q2 06	Focused to input from the TFO/DFO	TFO finalizing cost information for need application.
8	South	F	Hanna and Sheerness Area Planning Study	To identify any voltage or overloading issues.	Will proceed with need analysis in Q3 2006.	Need Assessment – Q3 06 Alternative Screening – Q4 06 Evaluation/Recommendation – Q1 07 Need Application – Q1 07	Focused to input from the TFO/DFO	
9	South and Calgary	G & Q	South Area Planning Study	To prepare a combined South Area transmission planning study incorporating the development plans in the SW and the SE.	Scope of study under development.	Need Assessment – Q4 06 Alternative Screening – Q4 06 Evaluation/Recommendation – Q1 07 Need Application – Q2 07	Broad stakeholder consultation	Being reassessed in light of the AESO Board Decision regarding wind generation operational impacts.

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10	SE	H	Southeast Area Planning Study	The southeast area plan will identify the transmission development in the region that is required to support load growth, generation development and restoration of the Alberta-Saskatchewan inter-tie capacity.	Revisions to the Need Assessment and Alternative Screening are underway.	Need Assessment - complete Need Assessment Revision – July 06 Alternative Screening Revision – July 06 Evaluation/Recommendation – Q4 06 Need Application – Q1 07	Broad stakeholder consultation	Need Assessment and Alternative Screening have been amended due to the AESO Board Decision regarding wind generation operational impacts.
11	Edmonton	I	Edmonton-Lake Wabamun-Drayton Valley-Wetaskiwin Regional Planning Study (138 kV)	Potential equipment thermal loading issues (138 kV) have been identified in the Wabamun and Edmonton areas.	Need Assessment underway.	Need Assessment – Oct 06 Alternative Screening – Jan 07 Evaluation/Recommendation – Apr 07 Need Application – Jul 07	Broad stakeholder consultation contemplated	
13	Edmonton	K	Edmonton Area Reactive Power Supply Reinforcement Study	Voltage stability concerns in the area; Wabamun generators reactive power output concerns.	Preparing need application.	Need Assessment – complete Alternative Screening – complete Evaluation/Recommendation – complete Need Application – May 06	Focused to working with the TFO/DFO and information provided to broader stakeholder audience in Jan 06.	
14	Edmonton	L	Sundance-Wabamun 240 kV Reconnection Study	Previously identified problem of 240 kV line overload between Sundance and Wabamun.  Retirements of Wabamun units has and will alter the balance of flows on the system. Future plans for Wabamun, given its advanced age, need to be identified.	Planning of alternatives with Project No.11.	Need Assessment – complete Alternative Screening – Q3 06 Evaluation/Recommendation – Q1 07 Need Application – Q2 07	Focused to working with the TFO/DFO and information provided to broader stakeholder audience in Jan 06.	
15	Edmonton	M	Keephills-Ellerslie-Genesee (KEG) Remedial	Remedial action scheme to cover category C3 events as much as practically possible for 1202L, 1203L and 1209L.	Initial work performed by Operations Planning to define the need.  A consultant will be	Need Assessment – Q2 06 Alternative Screening – Q2 06	Focused to working with the TFO/DFO and specific	

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			Action Scheme (RAS)	Double line outages (C5) may also be covered as practically possible.	engaged to perform the detailed study to plan for facilities.	Evaluation/Recommendation – Q2 06 Internal Approvals – Q2 06	generators.	
16	Calgary	O	Calgary Area Studies	Transmission development to accommodate the City of Calgary and nearby area load growth and increased bulk transfer demand. Difficulties taking maintenance outages of circuits in south Calgary.  There will be more than one project associated with these studies.	<u>Regional</u> : Evaluating alternative.  <u>Bulk</u> : Evaluating alternatives	<u>Regional</u> : Need Assessment – complete Alternatives Screening – Q3 06 Evaluation/Recommendations – Q3-Q4 06 Need Applications – Q3-Q4 06  <u>Bulk</u> : Need Assessment – complete Alternative Screening – Complete Evaluation/Recommendation – Q3 06 Need Application – Q4 06	Focused to working with the TFO/DFO, specific generators and local municipal authorities.  Focused to working with the TFO/DFO, specific generators and local municipal authorities.	
18	Entire System	N/A	NERC C and D Contingencies	Conduct studies to become compliant with NERC standard I.A.S3.M3 and I.A.S4.M4.  Conduct dynamic studies to observe how the system reacts to major disturbances in the C & D categories.  Develop mitigation plans as required.	Need Assessments are being done on a region by region basis.	<u>Category C</u> : Need Assessment – Q3 06 Detailed Analysis – Q4 06 Need Application – Q1 07  <u>Category D</u> : Need Assessment – Q3 06 Detailed Analysis – Q4 06 Need Application – Q1 07	Information will be provided to a broad stakeholder audience when it is available.	Need to resolve policy issue regarding equipment emergency ratings with the TFOs.
19	Inter-tie	S	Montana Alberta Tie Line	Merchant project; 240 kV tie between Lethbridge, AB and Great Falls, Montana.	Filed Need Application on April 26/06	Need Application – Filed Apr 06  MATL Scope Change – May 31, 06  Need Assessment Revision – Jul 06		MATL to provide a revised System Impact Study.

**Note:** Project Study plans are also being developed regarding initiating work on a 2nd Edmonton-Calgary 500 kV transmission line, and a 2nd intertie with British Columbia. Those initiatives will be added to this summary when the plans are further advanced and milestones have been forecast.