

No	Region of Province	Map Code	Title	Description	Status	Study Schedule	Stakeholder Consultation	Comments
1	NW	A	Northwest Alberta Transmission Development	Upgrade transmission facilities in and into the NW to meet growing load.	Need Application approved by the EUB on August 17/06.	Need Assessment Revision - complete Alternative Screening Revision - complete Evaluation/Recommendation - complete Need Application – Filed Mar 8 06	Broad stakeholder consultation	Need Application filed in March 06 with the EUB, no objections were received. The application was approved in Aug 06.
3	NE	B	North of Fort McMurray Oil Sands Project Interconnections	Develop a conceptual plan for the 240 kV transmission system in order to connect the major oil sands projects north of Fort McMurray.	Third meeting with the area stakeholders and customers scheduled for August 31.	Review regional system plan with Regulatory for tariff application purposes – complete Alternative Screening - complete Evaluation/Recommendation Q3/06 Interconnection Proposals – Q4/06 to Q4/07	Limited to the regional stakeholders and customers	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	Upgrade transmission facilities in and into the NE to meet large number of new oil sands loads.	Verification of generation and load forecast to 2015 - completed.	Need Assessment – Q3/06 Alternative Screening – Q4/06 Evaluation/Recommendation - Q1 07 Need Application – Q1 07	Broad Stakeholder Consultation	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.
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 – Q4 06 Need Applications – Q4 06 to Q1 07	Focused on 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 Q1 07.	Need Assessment – Q1 07 Alternative Screening – Q2 07 Evaluation/Recommendation – Q3 07 Need Application – Q4 07	Focused on input from the TFO/DFO	Evaluation will commence once cases are received.
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 – Q2 07 Alternative Screening – Q3 07 Evaluation/Recommendation – Q4 07 Need Application – Q4 07	Broad stakeholder consultation	Being reassessed in light of the AESO Board Decision regarding wind generation operational impacts.
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	Revisions to the Need Assessment and Alternative Screening are underway.	Need Assessment - complete Need Assessment Revision – Sept 06 Alternative Screening Revision – Oct 06	Broad stakeholder consultation	Need Assessment and Alternative Screening is being revised due to the AESO Board Decision regarding wind generation operational impacts.

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				inter-tie capacity.		Evaluation/Recommendation – Q4 06 Need Application – Q1 07		
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.	Need Application was filed in July 06.	Need Assessment – complete Alternative Screening – complete Evaluation/Recommendation – complete Need Application – filed Jul 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 Action Scheme (RAS)	Remedial action scheme to cover category C3 events as much as practically possible for 1202L, 1203L and 1209L. Double line outages (C5) may also be covered as practically possible.	Initial work performed by Operations Planning to define the need. A consultant will be engaged to perform the detailed study to plan for facilities.	Need Assessment – Q2 06 Alternative Screening – Q4 06 Evaluation/Recommendation – Q4 06 Internal Approvals – Q2 07	Focused to working with the TFO/DFO and specific generators.	
16	Calgary	O	Calgary Area Studies	Transmission development to accommodate the City of	<u>Regional</u> : Evaluating alternative.	<u>Regional</u> : Need Assessment –	Focused to working with the	

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				<p>Calgary and nearby area load growth and increased bulk transfer demand. Difficulties taking maintenance outages of circuits in south Calgary.</p> <p>There will be more than one project associated with these studies.</p>	<u>Bulk</u> : Evaluating alternatives	<p>complete Alternatives Screening – Q3 06 Evaluation/Recommendations – Q3-Q4 06 Need Applications – Q3-Q4 06</p> <p><u>Bulk</u>: Need Assessment – complete Alternative Screening – Complete Evaluation/Recommendation – Q3 06 Need Application – Q4 06</p>	<p>TFO/DFO, specific generators and local municipal authorities.</p> <p>Focused to working with the TFO/DFO, specific generators and local municipal authorities.</p>	
18	Entire System	N/A	NERC C and D Contingencies	<p>Conduct studies to become compliant with NERC standard I.A.S3.M3 and I.A.S4.M4.</p> <p>Conduct dynamic studies to observe how the system reacts to major disturbances in the C & D categories.</p> <p>Develop mitigation plans as required.</p>	Need Assessments are being done on a region by region basis.	<p><u>Category C</u>: Need Assessment – Q3 06 Detailed Analysis – Q4 06 Need Application – Q1 07</p> <p><u>Category D</u>: Need Assessment – Q3 06 Detailed Analysis – Q4 06 Need Application – Q1 07</p>	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	<p>Need Application – Filed Apr 06</p> <p>MATL Scope Change – May 31, 06</p> <p>Need Assessment Revision – Jul 06</p>		MATL to provide a revised System Impact Study requested by the EUB due to scope changes proposed by MATL.

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.