



Manitoba Keewatinowi Okimakanak, Inc.

Head Office

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Natural Resources Secretariat

6th Floor, 338 Broadway
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Fax (204) 949-9185

Office of the Grand Chief
DAVID HARPER

June 28, 2013

Hollis M. Singh
Secretary and Executive Director
The Public Utilities Board
400 - 330 Portage Avenue
Winnipeg, Manitoba
R3C 0C4

Dear Mr. Singh:

**Re: Preliminary Intervenor Budget and Cost Summary Sheet (with attachments)
of the Manitoba Keewatinowi Okimakanak, Inc. (MKO)
NFAT review for Manitoba Hydro's proposed preferred development plan**

Further to Board Order 67/13, please find attached a preliminary Intervenor Budget and Cost Summary Sheet, with attachments, of the Manitoba Keewatinowi Okimakanak, Inc. (MKO) for the NFAT review for Manitoba Hydro's proposed preferred development plan.

Subject to any comments MKO's may make following a review of Manitoba Hydro's NFAT filing, the scope of the interests MKO intends to examine and potentially pursue with the assistance of expert advisors and with the support of legal counsel are all of the matters as set out the Terms of Reference (TOR), as are more particularly enumerated at lines 58 through 106 of the numbered TOR document circulated by Board counsel. MKO has taken note of those matters of interest to MKO which the Board has determined in Order 67/13 to be out of scope.

MKO is presently engaged in discussions with a short list of prospective legal counsel and will advise the Board and intervenors as soon as counsel has been retained. MKO's prospective legal costs as appear in the Intervenor Budget and Cost Summary Sheet are the result of estimates of time and applicable costs arising from MKO's discussions with counsel for CAC Manitoba (for which MKO is appreciative).

As in previous proceedings before the Board, MKO will be advised by Desiderata Energy Consulting of Calgary, Alberta. The Board, Manitoba Hydro and intervenors are familiar with Desiderata Energy and its principal, Mr. Dale Hildebrand. Desiderata and its associates have all of the skills to address all of the matters within the scope of the TOR and Desiderata will assign tasks to the appropriate expert or experts based on a review of the Manitoba Hydro NFAT filing.

As suggested by the Board in Order 67/13, MKO has been approached by prospective intervenor Pimicikamak with a request to form coalition of intervenors. Following initial discussions, MKO has agreed to develop a coalition of intervenors with Pimicikamak. MKO can advise the Board that MKO and Pimicikamak are presently and actively engaged in determining the understandings and arrangements between MKO and Pimicikamak in this regard.

Accordingly, the attached preliminary Intervenor Budget and Cost Summary Sheet includes information and an attachment regarding the proposed tasks, the preferred expert advisors to be assigned to these tasks and the prospective related costs of Pimicikamak.

MKO is actively continuing its discussions with Pimicikamak as to the assignment of specific elements of the TOR (Item 1 and 2, lines 58 through 106), as well as other matters set out in the TOR, to the respective preferred advisors of MKO and Pimicikamak and will further advise the Board.

As to the Board's request at Part 4.3.0 of Order 67/13 in respect of the definition of "Macro-Environmental impact of the plan" and at Part 4.4.0 of that Order in respect of the definition of "Socio-Economic impacts and benefits of the plan", MKO generally accepts the comments made by Manitoba Hydro in its letter to the Board dated June 28, 2013, at pages 1 and 2, as to the applicable definitions. MKO would, however, note and add as to Manitoba Hydro's definition of "Socio-economic", that in accordance with Item 2(h) (lines 101 and 102) of the TOR, the reference to "people in Manitoba" should expressly include "northern and aboriginal communities".

It continues to be MKO's understanding that, subject to any further direction by the Board, that the detailed MKO-Pimicikamak engagement plan, work plan and budget will be further determined following the review by MKO-Pimicikamak of Manitoba Hydro's filing, which is presently expected on August 16, 2013.

As to the Board's direction that intervenors collaborate on common interests to avoid duplication, including in respect of potential expert advisors and witnesses, in addition to the discussions with Pimicikamak, MKO has been in detailed discussion with CAC Manitoba in respect of the potential for CAC and MKO (and MKO-Pimicikamak) to identify potential "common" advisors and experts. MKO expects that MKO (and MKO-Pimicikamak), together with CAC Manitoba, will further advise the Board in this regard.

In light of intervenors not having yet had the benefit of reviewing Manitoba Hydro's NFAT filing and in respect of the matter of any potential interim awards of costs by the Board, MKO suggests that the Board may wish to proceed by way of staged approvals of tasks and detailed budgets for key phases and stages of the NFAT proceeding, such as approvals of budgets for the review of the filing, for the preparation of information requests, for the preparation of evidence, and so on.

Please advise whether MKO's preliminary Intervenor Budget and Cost Summary Sheet, with attachments, should be forwarded to Manitoba Hydro and intervenors. Please do not hesitate to contact me at (204) 794-4312 should the Board require any additional information.

Sincerely,



Michael Anderson
Research Director

cc. Board Counsel

“APPENDIX II”

**NEEDS FOR AND ALTERNATIVES TO (NFAT) REVIEW OF
 MANITOBA HYDRO’S PROPOSED DEVELOPMENT PLAN
 INTERVENER BUDGET AND COST SUMMARY SHEET**

To be used to prepare a budget after August 16, 2013
 and file with the Public Utilities Board by August 30, 2013.

Prepared by:		Date:
Michael Anderson, MKO Natural Resources Secretariat		June 28, 2013
Hearing:		
NFAT Review of Manitoba Hydro’s Proposed Development Plan		
Period Covered:		
NFAT Review of Manitoba Hydro’s Proposed Development Plan Proceedings (TBC)		
Intervener’s Name:		
Manitoba Keewatinowi Okimakanak, Inc. (MKO)		
Contact Person or Persons:		
Michael Anderson, Research Director, MKO Natural Resources Secretariat		
Address:		
6th Floor – 338 Broadway, Winnipeg, Manitoba, R3C 0T2		
Phone Number:	Business:	Residence:
	(204) 794-4312	(204) 962-8420
	Fax Number:	E-mail:
	(204) 927-7509	manderson@mkonorth.com

See Costs on next page.

ESTIMATED FEES – to be completed for legal counsel or retained experts

NAME	ESTIMATED TOTAL HOURS	RATES	COSTS
Legal Counsel - TBC	900 hours	PUB Tariff	\$189,000
MKO Advisors (Desiderata Energy)	(see attached)	PUB Tariff	\$70,487-\$164,468
Pimicikamak Advisors (Various)	(see attached)	PUB Tariff	\$221,450
TOTAL FEES (hours and costs)			\$453,937-\$547,918

ESTIMATED DISBURSEMENTS

				COSTS
TRAVEL (AUTO)	kilometres	Rates		TBC
TRAVEL (OTHER)				
ACCOMMODATION	Nights	Rates		TBC
MEALS	Days	Costs		TBC
MISCELLANEOUS	Taxis	Telephone	Other	TBC
DISBURSEMENTS TOTAL				TBC

TOTAL FEES AND DISBURSEMENTS	TBC
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NOTE: Receipts must be attached for all disbursements.



1121 Colgrove Ave. NE
Calgary, Alberta T2E 5C1

T 403-869-6200
O 403-244-1542
F 403-668-0883

June 28, 2013

Via e-mail: michaelanderson@mts.net

Michael Anderson
Research Director
Manitoba Keewatinowi Okimakanak, Inc. (MKO)
Natural Resources Secretariat
6th Floor, 338 Broadway
Winnipeg, Manitoba R3C 0T2

Dear Mr. Anderson,

Re: PROPOSAL TO ASSIST WITH MANITOBA PUB NFAT REVIEW FOR MANITOBA HYDRO'S PROPOSED PREFERRED DEVELOPMENT PLAN FOR THE KEYASK AND CONAWAPA GENERATING STATIONS, THEIR ASSOCIATED DOMESTIC AC TRANSMISSION FACILITIES AND A NEW CANADA-USA TRANSMISSION INTERCONNECTION

Further to our discussions, the following outlines our proposal to assist MKO with the above noted proceeding. We propose to provide resources from Desiderata Energy Consulting Inc. (DECI) and Chymko Consulting Ltd., two Alberta based regulatory consulting firms with many years of experience in assisting regulatory authorities with testing electric utility regulatory applications.

Capabilities

Mr. Dale Hildebrand from DECI has been working in the electricity industry for 27 years and has been a regulatory consultant and expert and policy witness since 1996. Dale has testified before the Alberta Utilities Commission (AUC) as an expert or policy witness on 15 occasions and has co-authored expert evidence and arguments. He has assisted with utility applications in Saskatchewan, the NWT, New Brunswick and Manitoba and appeared before the Manitoba PUB and the Federal Court.

DECI specializes in the feasibility and development of generation projects, assisting clients with project economics, transmission connections and regulatory approvals. DECI assists generation developers, industrial customers and other organizations with these services, including Environment Canada and the Canadian Petroleum Producers Association (CAPP). In addition, DECI has a strong background in fundamental electricity demand, supply and price forecasting and has developed numerous projections based on different economic inputs and commodity price assumptions.¹ As such, DECI is well positioned to review and analyze Manitoba Hydro's Proposed Preferred Development Plan, and provide assistance to the Manitoba PUB, including expert evidence if required.

Mr. Nigel Chymko, President of Chymko Consulting, has 40 years of extensive experience with energy utilities. From 1980 to 1998, he served a large energy utility in Alberta at the executive level. Nigel has lead the development of regulatory applications for utilities which were filed with their regulators and has participated in numerous utility regulatory proceedings on behalf of municipal governments and

¹ Ms. Erika Goddard will assist Mr. Hildebrand in this area to be cost effective as required.

consumer groups. Chymko Consulting has a deep understanding of utility financials and economics and has prepared cost of service studies, rate designs, valuations of utility assets and generation projects and has developed financial planning models for electric, gas and water utilities.

Mr. Michael Turner, Senior Project Manager with Chymko Consulting, has over 15 years of utility industry experience and provides technical and financial analysis related to electric and natural gas markets. Michael has participated in numerous electricity utility regulatory proceedings, both on behalf of municipal utilities, interveners and consumers. Ms. Ashley Van Damme will assist Chymko Consulting to be cost effective as required.

Chymko Consulting has a depth of experience that can assist the Manitoba PUB with a thorough review of the Manitoba Hydro NFAT proceeding, including expert evidence if required.

Additional information on Desiderata Energy's experience is available on our website at www.desiderataenergy.com. Additional information on Chymko Consulting's experience is available on their website at www.chymko.com.

Proposal

DECI proposes to assist MKO with a review of the Manitoba Hydro filing and the testing of the application before the Manitoba Hydro PUB. We intend to work closely with other intervener groups to avoid duplication and provide a complete and comprehensive review through the NFAT proceeding.

We have reviewed the PUB's NFAT Terms of Reference and related documents and can provide the following preliminary budget based on our expectations of the scope of the NFAT filing and the issues that may arise. A more detailed budget can be prepared after we have had the opportunity to review the NFAT filing and determined the extent that we can coordinate our efforts with other interveners, and perhaps gain a deeper understanding of the scope of the work to be undertaken by the PUB's Independent Expert Consultants.



Estimated Budget and Timeline
Preliminary Manitoba PUB NFAT Budget

Item	Task	Dale Hildebrand		Nigel Chymko		Michael Turner		Total	
		Days	Cost	Days	Cost	Days	Cost	Days	Cost
1.0	Review Filings								
1.1	Preliminary assessment and report to MKO	1.0	\$1,575	1.0	\$1,715	1.0	\$1,330	3.0	\$4,620
1.2	Coordination with other interveners	0.5	\$788		\$0		\$0	0.5	\$788
1.3	Detailed review as per NFAT Terms of Reference Items 1 & 2	3.0	\$4,725	3.0	\$5,145	6.0	\$7,980	12.0	\$17,850
1.4	Report to MKO	0.5	\$788		\$0		\$0	0.5	\$788
2.0	Information Requests								
2.1	Identify information gaps	0.5	\$788	0.5	\$858	0.5	\$665	1.5	\$2,310
2.2	Coordination with other interveners	0.5	\$788		\$0		\$0	0.5	\$788
2.3	Develop IRs	2.0	\$3,150	2.0	\$3,430	3.0	\$3,990	7.0	\$10,570
2.4	Review IR responses	1.0	\$1,575	1.0	\$1,715	1.0	\$1,330	3.0	\$4,620
2.5	Report to MKO	0.5	\$788		\$0		\$0	0.5	\$788
3.0	Evidence Development (if required)								
3.1	Identify evidence topics	0.5	\$788	0.5	\$858	0.5	\$665	1.5	\$2,310
3.2	Coordination with other interveners	0.5	\$788		\$0		\$0	0.5	\$788
3.3	Prepare evidence	7.0	\$11,025	5.0	\$8,575	4.0	\$5,320	16.0	\$24,920
3.4	Respond to IRs	2.0	\$3,150	2.0	\$3,430	1.0	\$1,330	5.0	\$7,910
3.5	Report to MKO	0.5	\$788		\$0		\$0	0.5	\$788
4.0	Hearing								
4.1	Identify cross examination topics	0.5	\$788	0.5	\$858	0.5	\$665	1.5	\$2,310
4.2	Coordination with other interveners	0.5	\$788	-	\$0	-	\$0	0.5	\$788
4.3	Assist counsel with cross	5.0	\$7,875	5.0	\$8,575	5.0	\$6,650	15.0	\$23,100
4.4	Attend hearing	3.0	\$4,725	3.0	\$5,145	-	\$0	6.0	\$9,870
4.5	Report to MKO	1.0	\$1,575		\$0		\$0	1.0	\$1,575
Total Report Cost & Estimated Completion Date		30.0		23.5		22.5		76.0	\$117,478

-40% \$70,487

40% \$164,469

At this time we feel this budget has an accuracy of +/- 40%, for a range of \$70,000 to \$165,000. For example, if expert evidence is not required, the lower range would be indicative. If it is determined that extensive evidence is required and the oral hearing is protracted, the upper range would be indicative. These services will be provide at our standard rates (please see attached), on an hourly basis.

Please advise if this proposal is acceptable.

Desiderata Energy Consulting Inc.

Page 4 of 7

If you require any additional information, please contact the undersigned at 403-869-6200 or dale.hildebrand@desiderataenergy.com.

Sincerely,

Desiderata Energy Consulting Inc.

A handwritten signature in black ink, appearing to read "W. Dale Hildebrand". The signature is fluid and cursive, with a prominent initial "W" and a long, sweeping tail.

W. Dale Hildebrand, P.Eng., M.B.A.
President

2013 Hourly Fee Schedule

Advisory Services

Dale Hildebrand	\$225/h
Nigel Chymko	\$245/h
Michael Turner	\$190/h
Erika Goddard	\$140/h
Ashley Van Damme	\$125/h
Administrative Assistance	\$50/h

- **All office disbursements and local courier charges included in the hourly fee**
- **Travel expenses and third party disbursements billed at cost**
- **Personal vehicle expenses billed at \$0.50/km**
- **Invoices issued after each calendar month payable net 30**

Contact

1121 Colgrove Ave NE
Calgary Alberta T2E 5C1
T 403-869-6200
[dale.hildebrand@
desiderataenergy.com](mailto:dale.hildebrand@desiderataenergy.com)



Résumé of Mr. Dale Hildebrand

Dale is a professional engineer with 26 years' experience. He is a specialist in electricity generation project development, regulatory consulting, tariff development, economic evaluations and utility option comparisons and re-negotiations. He has been an active advocate and educator and is a recognized expert in Alberta's electric energy industry.

Education

MBA, University of Alberta,
1991

B.Sc. Mechanical Engineering
(Co-op), with Distinction
University of Alberta, 1986

Career History

Desiderata Energy Consulting

April 2006 – Present
President

Genalta Power

April 2011 – Oct 2012
Sr. Vice President

Stantec Consulting

Nov 2003 – April 2006
Principal, Regulatory

Optimum Energy Management Inc. (OEMI)

Jan 1994 - Oct 2003
Managing Principal,
Regulatory and Energy
Management Consultant

Alberta Power Ltd.

(now ATCO Electric Limited)
Jul 1986 – Dec 1993
Industrial Sales, Marketing
Analyst, Generation
Engineering

Contact

1121 Colgrove Ave NE
Calgary Alberta T2E 5C1
T 403-869-6200
dale.hildebrand@desiderataenergy.com

Dale's current consultancy practice includes the development of behind the fence electricity generation projects and the provision of strategic advice to industrial clients looking to develop or enhance projects. These assignments involve the communication and negotiation of complex issues with the utilities, the government and their agencies. Examples include transmission development, the sale of legacy generation, utility tariffs, industrial systems, electricity and natural gas procurement, ancillary services, negotiated settlements, AESO connection applications, AUC applications and compliance, electricity pricing and supply and demand forecast reviews. Mr. Hildebrand has taught several electric energy related courses and seminars and presented at numerous industry conferences.

Since 2003 Dale has assisted dual-use customers during AESO tariff review proceedings by analyzing proposed tariffs, filing expert evidence and advocating for cost based rates through negotiation and regulatory proceedings. Dale also assists dual-use customers with project development and tariff cost management. He authored the Oil Sands Development Group's 2010 to 2012 Co-Generation Report that summarizes co-generation potential from oilsands in Alberta based on a comprehensive industry survey.

Dale has testified before the Alberta Utilities Commission (AUC) as an expert or policy witness on 15 occasions and has co-authored expert evidence and arguments. He has assisted with utility applications in Saskatchewan, the NWT, New Brunswick and Manitoba and appeared before the Manitoba PUB and the Federal Court.

Over the past 16 years Mr. Hildebrand was involved in the legislative and regulation development and review processes, including the development of legislated Power Purchase Agreements. Dale was a member of the Electric Transmission Council, the Balancing Pool Committee, the EUA Advisory Committee, the MAP I and II Advisory Committees and numerous ADOE committees struck to retain expert consultants, review policies and develop regulations to enact industry restructuring and deregulation.

Over the past seven years Dale and his staff have assisted the Beverage Container Management Board with the development of Handling Commissions based on sound information. Desiderata gathers financial information from over 200 independent businesses to develop cost of service models and end use rates.

Additional information on Mr. Hildebrand's qualifications is available on Desiderata's web site at www.desiderataenergy.com.

NIGEL CHYMKO

President, Chymko Consulting

In addition to managing Chymko Consulting Ltd. and providing leadership and oversight on all projects, Mr. Chymko provides senior management-level advice to clients in areas such as:

- Business planning and development
- Commercial and market matters
- Market research and resource planning
- Regulatory and government affairs

Mr. Chymko has 40 years of extensive experience with energy utilities. From 1980 to 1998, he served a large energy utility in Alberta at the executive level. As a senior executive, he strategically positioned the company in a restructured competitive electricity marketplace, which involved financial restructuring and the establishment of a new corporate entity. In this capacity, Mr. Chymko was responsible for Energy Trading, Business Planning, Regulatory Affairs, Financial Services, and Corporate Communication. He was also responsible for corporate regulatory affairs pertaining to natural gas and telecommunications. As a member of the Alberta government's Advisory Committee on the restructuring of the electricity industry, he ensured that the interests of the utility, its shareholder, and customers were protected in the development of legislation and regulations.

Mr. Chymko guides and assists clients in the following areas:

- Developing and managing strategies for regulatory proceedings, both as an applicant and intervenor, on matters such as electricity, natural gas, water and sanitary sewer, and telecommunications. Regulatory expertise covers tariffs, revenue requirement, cost-of-service, facilities applications, expert testimony, and litigation support.
- Positioning organizations to succeed in restructured industries.
- Restructuring business units within corporate organizations.
- Representing clients' interests in the development of legislation and regulations on electricity industry restructuring.
- Managing the acquisition or sale of utility businesses and assets, including valuations and due diligence activities.
- Owner's representative in contracting for the design and construction of facilities.
- Developing and implementing strategies for competitive procurement of electricity and natural gas, including portfolio and risk management.
- Developing and implementing integrated resource plans to meet forecasted energy requirements, including assessing and contracting for renewable energy technologies.
- Achieving successful mediations and negotiated settlements that reflect clients' interests.

Prior to legislative changes in 2007, Mr. Chymko served on a tribunal for the Alberta Market Surveillance Administrator to resolve and enforce matters pertaining to the electricity and ancillary services markets in Alberta.

EDUCATION

- B.Admin., Quantitative Analysis, University of Saskatchewan, Regina, Saskatchewan
- Banff School of Advanced Management
- University of Western Ontario, Management for Accounting and Financial Executives

RECENT REGULATORY EXPERIENCE

Testimony in Regulated Proceedings

- FortisAlberta 2012/13 General Rate Application before the Alberta Utilities Commission on behalf of FortisAlberta
- AltaLink Management 2011/13 General Rate Application before the Alberta Utilities Commission on behalf of AltaLink Management
- AltaGas Utilities Inc. 2008/09 General Rate Application before the Alberta Utilities Commission on behalf of AltaGas Utilities Inc.
- Alberta Utilities Commission Smart Grid Inquiry respecting the review of issues surrounding the implementation of Automated Metering Infrastructure on behalf of the Cities of Red Deer and Lethbridge
- FortisAlberta 2010/11 General Rate Application before the Alberta Utilities Commission on behalf of FortisAlberta
- Heritage Gas 2009/11 General Rate Application before the Nova Scotia Utility and Review Board on behalf of Heritage Gas
- AltaLink Management 2009/10 General Rate Application before the Alberta Utilities Commission on behalf of AltaLink Management
- FortisAlberta 2008/09 General Rate Application before the Alberta Energy and Utilities Board on behalf of FortisAlberta
- AltaGas Utilities 2005/06 Phase 2 General Rate Application before the Alberta Energy and Utilities Board on behalf of AltaGas Utilities
- 2007 Handling Commission Procedure of the Beverage Container Management Board before the Handling Commission Review Panel (HCRP) on behalf of the Alberta Bottle Depots Association (ABDA).
- AltaLink Management 2007/08 General Rate Application before the Alberta Energy and Utilities Board on behalf of AltaLink Management
- FortisAlberta 2005 General Rate Application before the Alberta Energy and Utilities Board on behalf of FortisAlberta
- AltaGas Utilities 2003/04 Phase 2 General Rate Application before the Alberta Energy and Utilities Board on behalf of AltaGas Utilities
- University of Alberta 2004 Appeal Respecting the Rates of EPCOR Distribution Inc. (EDI) before the Alberta Energy and Utilities Board on behalf of the University of Alberta
- Newfoundland and Labrador Hydro: 2003 General Rate Application before the Newfoundland Board of Commissioners of Public Utilities on behalf of the Board (Cost of Service and Rates)
- City of Lethbridge before the Alberta Energy and Utilities Board (Genco And Disco 2000 Pool Price Deferral Accounts Proceeding) on behalf of the City of Lethbridge
- City of Red Deer before the Alberta Energy and Utilities Board (Genco And Disco 2000 Pool Price Deferral Accounts Proceeding) on behalf of the City of Red Deer
- Lethbridge Electric Utility before Lethbridge City Council (2000 Financial Policy Review, Cost of Service Analysis, and Rate Design) on behalf of the Lethbridge Electric Utility

In addition to providing testimony, Mr. Chymko provided assistance and recommendations to clients in the following proceedings:

- EPCOR Distribution & Transmission 2010-2011 Distribution Tariff Phase II) before the Alberta Utilities Commission on behalf of the University of Alberta

-
- Alberta Utilities Commission Smart Grid Inquiry respecting the review of issues surrounding the implementation of Automated Metering Infrastructure on behalf of the Cities of Red Deer and Lethbridge
 - City of Lethbridge TFO 2009-11 General Rate Application before the Alberta Utilities Commission on behalf of the City of Lethbridge
 - City of Red Deer TFO 2009-11 General Rate Application before the Alberta Utilities Commission on behalf of the City of Red Deer
 - City of Lethbridge TFO 2006-08 General Rate Application before the Alberta Energy and Utilities Board on behalf of the City of Lethbridge
 - City of Red Deer TFO 2006-08 General Rate Application before the Alberta Energy and Utilities Board on behalf of the City of Red Deer

Negotiated Settlements

- 2010 Handling Commission Procedure of the Beverage Container Management Board
- AltaGas Utilities Inc. 2008/09 General Rate Application
- EPCOR Distribution & Transmission 2007-2009 Distribution Tariff Phase II
- Member of Alberta Electric System Operator (AESO) Budget Review Process (ABRP) 2005-Current
- Alberta Electric System Operator (AESO) 2005 'Own Costs'
- Alberta's Transmission Administrator 2003 Tariff Application Phase I
- Alberta's Transmission Administrator 2002 Tariff Application Phase I
- Alberta's Transmission Administrator Article 24 (Ancillary Services) Transmission Must Run Compensation to Engage Energy for 2001 and 2002
- ATCO Electric 2001-02 Transmission Facility Owner Tariff
- EPCOR 2001-02 Transmission Facility Owner Tariff
- TransAlta 2001 Transmission Facility Owner Tariff
- ATCO Electric 1999-2000 Tariff Application Phase I
- ATCO Electric Final Balance and Disposition of 1999 Deferral Accounts
- Edmonton Power 1999 Direct Access Tariff
- Alberta's Transmission Administrator 1998 Tariff Application Phase I

MICHAEL TURNER

Senior Project Manager, Chymko Consulting

Since 1998, Mr. Turner has served Chymko Consulting's clients with strategic, technical, and financial advice related to utility issues as well as electric and natural gas markets. As a consultant, Mr. Turner has assisted clients on a variety of topics, including:

- Preparation of Regulatory Applications
- Cost of Service Analysis
- Rate Design and Rate Unbundling
- Utility Investment (Contribution) Policy
- Optimization of Self-Generation Resources
- Energy Price Financial Hedging Optimization and Value-At-Risk Strategies
- Restructured Energy Market Design
- Analysis of Commercial Contracts for Energy Procurement
- Regulated Terms and Conditions of Service
- Necessary Working Capital Studies

EDUCATION

- M.A. Economics, University of Calgary (Calgary, Alberta)
- B.A. Economics, University of Calgary (Calgary, Alberta)

RECENT REGULATORY EXPERIENCE

In addition to participating in and providing review, analysis, and recommendations to clients on numerous general rate applications, Mr. Turner has assisted with the preparation of publicly filed evidence in the following proceedings:

- EPCOR Distribution & Transmission 2010-2011 Distribution Tariff Phase II) before the Alberta Utilities Commission on behalf of the University of Alberta
- FortisAlberta 2012/13 General Rate Application before the Alberta Utilities Commission on behalf of FortisAlberta
- AltaLink Management 2011/13 General Rate Application before the Alberta Utilities Commission on behalf of AltaLink Management
- AltaGas Utilities Inc. 2008/09 General Rate Application before the Alberta Utilities Commission on behalf of AltaGas Utilities Inc.
- Alberta Utilities Commission Smart Grid Inquiry respecting the review of issues surrounding the implementation of Automated Metering Infrastructure on behalf of the Cities of Red Deer and Lethbridge
- FortisAlberta 2010/11 General Rate Application before the Alberta Utilities Commission on behalf of FortisAlberta
- Heritage Gas 2009/11 General Rate Application before the Nova Scotia Utility and Review Board on behalf of Heritage Gas
- City of Lethbridge TFO 2009-11 General Rate Application before the Alberta Utilities Commission on behalf of the City of Lethbridge
- City of Red Deer TFO 2009-11 General Rate Application before the Alberta Utilities Commission on behalf of the City of Red Deer

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- AltaLink Management 2009/10 General Rate Application before the Alberta Utilities Commission on behalf of AltaLink Management
 - FortisAlberta 2008/09 General Rate Application before the Alberta Energy and Utilities Board on behalf of FortisAlberta
 - AltaGas Utilities 2005/06 Phase 2 General Rate Application before the Alberta Energy and Utilities Board on behalf of AltaGas Utilities
 - 2007 Handling Commission Procedure of the Beverage Container Management Board before the Handling Commission Review Panel (HCRP) on behalf of the Alberta Bottle Depots Association (ABDA)
 - AltaLink Management 2007/08 General Rate Application before the Alberta Energy and Utilities Board on behalf of AltaLink Management
 - City of Lethbridge TFO 2006-08 General Rate Application before the Alberta Energy and Utilities Board on behalf of the City of Lethbridge
 - City of Red Deer TFO 2006-08 General Rate Application before the Alberta Energy and Utilities Board on behalf of the City of Red Deer
 - FortisAlberta 2005 General Rate Application before the Alberta Energy and Utilities Board on behalf of FortisAlberta
 - University of Alberta 2004 Appeal Respecting the Rates of EPCOR Distribution Inc. (EDI) before the Alberta Energy and Utilities Board on behalf of the University of Alberta
 - Newfoundland and Labrador Hydro: 2003 General Rate Application before the Newfoundland Board of Commissioners of Public Utilities on behalf of the Board (Cost of Service and Rates)
 - Genco And Disco 2000 Pool Price Deferral Accounts Proceeding before the Alberta Energy and Utilities Board on behalf of the City of Red Deer and the City of Lethbridge
 - Lethbridge Electric Utility before Lethbridge City Council (2000 Financial Policy Review, Cost of Service Analysis, and Rate Design) on behalf of the Lethbridge Electric Utility

Testimony in Regulated Proceedings

- Alberta Utilities Commission Smart Grid Inquiry respecting the review of issues surrounding the implementation of Automated Metering Infrastructure on behalf of the Cities of Red Deer and Lethbridge
- Heritage Gas 2009/11 General Rate Application before the Nova Scotia Utility and Review Board on behalf of Heritage Gas
- AltaGas Utilities 2005/06 Phase 2 General Rate Application before the Alberta Energy and Utilities Board on behalf of AltaGas Utilities

Negotiated Settlements

- 2010 Handling Commission Procedure of the Beverage Container Management Board
- AltaGas Utilities Inc. 2008/09 General Rate Application
- EPCOR Distribution & Transmission 2007-2009 Distribution Tariff Phase II

Résumé of Erika Goddard



Education

BA Economics, Concentration
in Energy Economics,
University of Calgary, 2007

Career History

**Desiderata Energy
Consulting**
Nov 2012 - Present
Power Analyst

Genalta Power
Oct 2011 – Nov 2012
Power Generation
Development Analyst

EDC Associates Ltd.
Jun 2007 – Oct 2011
Energy Market Analyst

Contact

1121 Colgrove Ave NE
Calgary Alberta T2E 5C1
T 403-998-1648
[erika.goddard@
desiderataenergy.com](mailto:erika.goddard@desiderataenergy.com)

In her role as Power Analyst, Erika Goddard provides financial and economic modeling of power generation projects, utility tariff analysis, preparation of Alberta Utilities Commission and Alberta Environment regulatory applications, and management of the AESO grid connection processes. Erika also provides consulting and procurement services to clients in all aspects of Canada's electric industries.

Ms. Goddard's background is in fundamental-based analysis of the Alberta electricity industry, starting at the macroeconomic level spanning to electricity supply, demand, and ultimately power price. She has experience in electricity generation development, electricity procurement and settlement, economic evaluations, and forward views of electricity markets. Her experience has given her a solid understanding of electricity markets, specifically the Alberta generation market. Ms. Goddard has extensive knowledge of the existing Alberta generation fleet and areas for potential power generation growth.

Additional information on Ms. Goddard's qualifications is available on Desiderata's web site at www.desiderataenergy.com.

Ashley Van Damme

Business Analyst, Chymko Consulting

Ms. Van Damme holds a Master of Arts degree in Political Science from the University of British Columbia, and a Bachelor of Arts degree (great distinction) from the University of Lethbridge. Throughout her studies she worked as a research assistant in the history and political science departments, performing qualitative research and analysis.

Following the completion of her undergraduate degree, Ms. Van Damme worked for the Data Development and Evaluation branch of then Alberta Human Resources and Employment. In this position, she supported program evaluation, conducted statistical analysis, and created reports outlining strengths and areas for improvement in departmental programs.

Ms. Van Damme has also worked as a researcher and analyst with the Centre of International Relations at the University of British Columbia, where she was responsible for a variety of research, coordination, and communication projects. She additionally used her writing and analytical skills to support a yearly research publication on traditional and non-traditional security issues in the Asia Pacific region.

Along with strong qualitative and quantitative research and analysis skills, Ms. Van Damme brings extensive communication experience. She has worked with a variety of media platforms and is proficient at contextualizing complex information and conveying it to a wider audience.

At Chymko Consulting Ms. Van Damme will be providing project support in the following areas:

- Financial and economic analysis
- Data management and analysis
- Providing support in preparation of regulatory applications
- Energy industry and market research
- Monitoring and reporting on current energy industry, market, and regulatory activities
- Market intelligence and data gathering
- Providing supporting research to various projects
- Preparation of reports and presentations

Education

- B.A. (Great Distinction) in History and Political Science, University of Lethbridge (Lethbridge, AB)
- M.A. in Political Science, University of British Columbia (Vancouver, BC)

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Pimicikanak Tasks, Preferred Advisors/Experts and Prospective Costs
MKO – Pimicikamak Coalition
PUB NFAT Appendix 2 Content

3.5.2 “PCL will be able to seek a coalition with approved Interveners as to in-scope issues and make its own final submissions on those issues. Any such proposed Coalition, for PCL or any other party, would have to be detailed and submitted to the Board for approval in respect of the specific issues to be addressed, the proposed consultants for those issues, and their specific budgets.”

Advisors / Experts

Whelan Enns Associates Inc.
Gaile Whelan Enns (President) and Associates.

Scope

Policy and provincial Acts analysis.
Technical support and research for legal counsel.
Technical support and research for expert witnesses.
Review of Manitoba Hydro filings submitted to PUB.
Assistance with cross-examination of Manitoba Hydro during hearings.
Analysis of Manitoba Hydro’s PDP alignment with the Clean Energy Strategy, and Sustainable Development Principles.
Review of macro-environmental impacts if approved by PUB NFAT panel under terms of reference.

ToR Reference

1. An assessment as to whether the needs for Hydro’s Plan are thoroughly justified, and sound, its timing is warranted, and the factors that Hydro is relying upon to prove its needs are complete, reasonable and accurate. The assessment will take the following factors into consideration:
 - a. The alignment of the Plan to Hydro’s mandate, as set out in Section 2 of *The Manitoba Hydro Act*.
 - b. The alignment of the Plan to Manitoba’s Clean Energy Strategy and the Principles of Sustainable Development as outlined in *The Sustainable Development Act*.
2. An assessment as to whether the Plan is justified as superior to potential alternatives that could fulfill the need. The assessment will take the following factors into consideration:
 - b. The alignment of the Plan and alternatives to Manitoba’s Clean Energy Strategy, *The Climate Change and Emissions Reduction Act* and the Principles of Sustainable Development as outlined in *The Sustainable Development Act*;
 - e. The reasonableness of the scope and evaluation of risks and the benefits proposed to arise from the development and the reasonableness and the reliability of Hydro’s interpretation of the most likely future outcomes as a result of climate changes, interest rate fluctuations, export market prices, domestic load fluctuations, droughts,

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competing technologies, fuel prices, carbon pricing, technology developments, economic conditions, Hydro's transmission positions and other relevant factors;

“Results of climate change, droughts, Hydro’s transmission positions and other relevant factors”

i. The macro environmental impact of the Plan compared to alternatives;

The CAC was approved for macro-environmental impacts, this analysis is wide, and requires multiple perspectives and experts.

Procedural Order Reference - The Pimicikamak at Cross Lake Manitoba

3.5.2 (b) Whether Manitoba Hydro’s PDP is aligned with the Clean Energy Strategy, and Sustainable Development Principles;

No one else was granted this item in approved scope.

Rates

\$100/Hr

Costs

100 days * 8 Hrs * \$100/Hr = \$80,000.00.

Disbursements

Travel – None.

Accommodation – None.

Meals – Approved day rate for PUB hearing days. 2 months of hearings.

Miscellaneous – Taxi and parking. Printing, phone, office supplies. 2 months of hearings.

Advisor / Expert

Synapse Energy Economics, Inc.
Bruce Edwards Biewald - CEO

Scope

3.5.2 (d) The MISO energy market into which Manitoba Hydro exports electricity.

All areas of the terms of reference cited below for **Midwest Independent Transmission System Operator, Inc. (MISO)** energy market and emphasize electricity transmission through the USA MISO. For instance, the import of excess wind or solar power from MISO clients to Manitoba.

Export transmission costs south to MISO. Costs to domestic users of the transmission required transmitting energy south to MISO.

ToR Reference

1. An assessment as to whether the needs for Hydro's Plan are thoroughly justified, and sound, its timing is warranted, and the factors that Hydro is relying upon to prove its needs are complete, reasonable and accurate. The assessment will take the following factors into consideration:
 - (d) The reasonableness, thoroughness and soundness of all critical inputs and assumptions Hydro relied upon for its justification of its needs. This should include Hydro's planning load forecast and future load scenarios, its demand and supply analysis, export expectations and commitments, and demand side management and conservation forecasts.
2. An assessment as to whether the Plan is justified as superior to potential alternatives that could fulfill the need. The assessment will take the following factors into consideration:
 - c. The accuracy and reasonableness of the modeling of export contract sale prices, terms, conditions, scheduling provisions, export transmission costs, and the reasonableness of projected revenues;
 - d. The reasonableness of forecasted critical inputs including construction costs, opportunity export revenues, future fuel prices, electricity market price forecasts, the determinants of those values, and export volumes;
 - e. The reasonableness of the scope and evaluation of risks and the benefits proposed to arise from the development and the reasonableness and the reliability of Hydro's interpretation of the most likely future outcomes as a result of climate changes, interest rate fluctuations, export market prices, domestic load fluctuations, droughts, competing technologies, fuel prices, carbon pricing, technology developments, economic conditions, Hydro's transmission positions and other relevant factors;
 - g. The financial and economic risks of the Plan and export contracts and export opportunity revenues in relation to alternative development strategies;

Procedural Order Reference - The Pimicikamak at Cross Lake Manitoba

3.5.2 (d) The MISO energy market into which Manitoba Hydro exports electricity;
No other intervener was granted this in the scope.

Rates

\$200/Hr

Costs

\$200/Hr * 160 Hrs + 40 Hrs = \$40,000.00

Disbursements

Travel – Air flight from Boston MA to Winnipeg. \$1,000.00 round trip for two trips. \$2,000.00

Accommodation – Hotel for one week in Winnipeg. \$150 x 14 = \$2,100.00

Meals – Day rate for stay in Winnipeg. \$35 x 14 = \$490.00

Miscellaneous – Taxi, printing, office supplies. \$1,000.00

Advisor / Expert

DPI Territorial
David Flanders, CSLA, MCIP

Scope

DPI will review water flow data regarding water flows into the hydro system which Keeyask and Conawapa generation stations would use. DPI will provide analysis on a historic basis, to current time, and into the future about water resources available to Manitoba Hydro for the development plan. British Columbia to Alberta to Saskatchewan to Manitoba flows would be included, over 100 - 150 year time period. 3 D and 4 D models will be used to show the patterns in water resource availability. This work and products reflect areas within the terms of reference for the NFAT (Manitoba Climate Change Act, climate change, drought) and will assist the PUB and interveners in their analysis. Results will relate to water resource availability projections, resource use, and assist with analysis of Manitoba Hydro's assumptions in the Plan.

ToR Reference

2. An assessment as to whether the Plan is justified as superior to potential alternatives that could fulfill the need. The assessment will take the following factors into consideration:
 - b. The alignment of the Plan and alternatives to Manitoba's Clean Energy Strategy, *The Climate Change and Emissions Reduction Act* and the Principles of Sustainable Development as outlined in *The Sustainable Development Act*;
 - e. The reasonableness of the scope and evaluation of risks and the benefits proposed to arise from the development and the reasonableness and the reliability of Hydro's interpretation of the most likely future outcomes as a result of climate changes, interest rate fluctuations, export market prices, domestic load fluctuations, droughts, competing technologies, fuel prices, carbon pricing, technology developments, economic conditions, Hydro's transmission positions and other relevant factors;
 - i. The macro environmental impact of the Plan compared to alternatives;

No one was granted climate or drought in the approved topics for the hearings.

Procedural Order Reference - The Pimicikamak at Cross Lake Manitoba

3.5.2 (e) Socio-economic benefits and impacts on Manitobans, aboriginal communities and Northern communities;

Rates

\$100/Hr

Costs

\$100/Hr * 50 days of 8 hrs = \$40,000.00

Disbursements

Travel – Vancouver to Winnipeg. \$1,000.00 round trip for two trips. \$2,000.00

Accommodation – 8 nights x \$150.00/night = \$1,200.00

Meals - \$35.00 x 8 = \$280.00

Miscellaneous – Taxi, supplies, printing. \$500.0

Advisor / Expert

Darwin Paupanakis, Secretary to the Councils, Pimicikamak

Scope

The socio-economic impacts and benefits of Manitoba Hydro's Preferred Development Plan (PDP) and alternatives in respect of the MKO First Nations and northern communities.

Adding a Pimicikamak expert broadens and adds depth to the analysis beyond MKO First Nations and also broadens the MMF analysis regarding socio-economic impacts and benefits of Manitoba Hydro's Preferred Development Plan and alternatives to Northern and Aboriginal communities.

ToR Reference

2. An assessment as to whether the Plan is justified as superior to potential alternatives that could fulfill the need. The assessment will take the following factors into consideration:

h. The socio-economic impacts and benefits of the Plan and alternatives to northern and aboriginal communities;

Procedural Order Reference - MKO

3.3.2 (a) The socio-economic impacts and benefits of Manitoba Hydro's Preferred Development Plan (PDP) and alternatives in respect of the MKO First Nations

Procedural Order Reference - The Pimicikamak at Cross Lake Manitoba

3.5.2 (e) Socio-economic benefits and impacts on Manitobans, aboriginal communities and Northern communities;

Rates

\$100/Hr

Costs

\$100/Hr * 50 days of 8 hrs = \$40,000.00

Disbursements

Travel - Thompson to Winnipeg. \$1,000.00 round trip.

Accommodation – 8 weeks hotel in Wpg x \$150/night = \$8,400.00

Meals – 8 weeks meals x \$35 = \$1,980.00

Miscellaneous – Taxi, office supplies. \$500.00

Grand Total - \$221,450.00