

## INTERVENER APPLICATION FORM

Application re Hearing:			
Name of Prospective Intervener (Organization Name or Individual):			
<b>Prospective Intervener Contact Information</b>			
Organization or Individual Address:			
Organization Contact Person(s) (if applicable):			
Contact Information:	Business:		Other Phone:
	Fax Number:		Email:
<b>Representative Contact Information:</b>			
Counsel or Representative Name(s):			
Organization (if different from above) :			
Address (if different from above):			
Contact Information (if different from above):	Business:		Other Phone:
	Fax Number:		Email:
Counsel Seniority:			
Years of Experience	_____ Years	Tariff Rate	\$ _____
Also representing (if applicable):			

**Additional Information**

(For organizations only) Please describe the mandate of your organization and provide a description of the membership, including the number of members. Please also confirm whether the organization's intervention in this proceeding is supported by a resolution of the governing body, if any. Please enclose the resolution, if any, with your Application, along with supporting documentation of your mandate and membership

Please state your reasons for intervening in this proceeding:

Please state how you are directly affected by the Board's decision in this matter:

Please explain whether and how you represent a substantial number of ratepayers that are otherwise not represented on issues that are within the scope of this proceeding:

Please describe your experience, information, or expertise relevant to this matter that would contribute to the Board's decision making, including any other prior interventions in regulatory matters before this Board or other decision-makers:

Please list the key issues you intend to address in the proceeding. Please be specific.		
Do you intend to participate fully and actively, including attendance at hearings, submission of evidence, and testing of evidence and cross examination of witnesses? If yes, please describe your intended participation.		
Do you intend to request an award of costs for your participation? Please explain how you meet the criteria for an award of costs.		
Do you intend to retain experts or consultants? If yes, please attach copies of the <i>curriculum vitae</i> for any expert and/or consultant, as well as the following:		
<b>Expert Consultant #1:</b>		
Name:	Experience	Evidence to be provided on issues in scope:
	_____Years	
Telephone #:	Tariff Rate:	
	\$_____	
Address and Email:	Firm or Organization:	Brief explanation of experience relevant to evidence to be provided:

<b>Expert Consultant #2:</b>		
Name:	Experience:	Evidence to be provided on issues in scope:
	_____Years	
Telephone #:	Tariff Rate:	
	\$_____	
Address and Email:	Firm or organization:	Brief explanation of experience relevant to evidence to be provided:
<b>Expert Consultant #3:</b>		
Name:	Years of Experience:	Evidence to be provided on issues in scope:
	_____Years	
Telephone #:	Tariff Rate:	
	\$_____	
Address and Email:	Firm or organization:	Brief explanation of experience relevant to evidence to be provided:

Do you intend to provide evidence from witnesses other than experts and/or consultants? If yes, please provide:	
<b>Witness #1:</b>	
Name:	Evidence to be provided on issues in scope:
Email:	Brief explanation of relevant experience and/or knowledge to issues in scope:
Address and Phone number:	
Do you intent to seek approval for any other form of participation or provision of evidence, including for which you intend to seek an award of costs? If yes, please provide details and an explanation of the relation to issues in scope in the proceeding.	

## **Additional Information - Attachment**

**(For organizations only) Please describe the mandate of your organization and provide a description of the membership, including the number of members. Please also confirm whether the organization's intervention in this proceeding is supported by a resolution of the governing body, if any. Please enclose the resolution, if any, with your Application, along with supporting documentation of your mandate and membership.**

The purpose of MIPUG is to work together on issues of common concern related to electricity supply and rates in Manitoba. The association's key concerns related to electricity costs are: ensuring rates reflect the cost to provide electricity, are fair and reasonable, and stable and predictable.

MIPUG is an association of companies who are substantial users of power, in the General Service Large rate classes (including all three subclasses). These customer classes collectively purchase approximately 8,000 GW.h of power annually (about 35% of Hydro's domestic energy sales).

MIPUG members at this time include:

- Amsted Rail - Griffin Wheel Company;
- Canada Kraft Paper Industries Ltd.;
- Chemtrade Logistics Inc.;
- Enbridge Pipelines Inc.;
- ERCO Worldwide;
- Gerdau Long Steel North America – Manitoba Mill;
- Integra Castings;
- Koch Fertilizer Canada ULC;
- Maple Leaf Foods;
- TransCanada Keystone Pipeline; and
- Winpak Ltd.

Beyond members proper, MIPUG has active engagement with other industrial stakeholders and associations that are not members of MIPUG on energy matters. These other parties have an active interest in energy matters, are impacted in a similar manner as MIPUG members and often are aligned with MIPUG in matters of priorities and positioning.

To that end, the MIPUG intervention, since the 1980s, has always technically had the membership base as the "client", however intervention has always represented the interests of industrial power uses and provincial competitiveness broadly and generally. This includes future industrial users, and non-members (and, of course, the complementary interests of non-industrial users of power where these users have a similar interest in competitive rates and a well-run, appropriately managed and properly capitalized utility).

MIPUG does not operate with a formal governing body, however three members act as an executive for the group: Rick Denton, Director of Manufacturing at Chemtrade Electrochem Inc.; Paul Liddle, Plant Manager at Koch Fertilizer Canada; and Morgan Curran-Blaney, Plant Manager of Maple Leaf Foods Inc. MIPUG is an informal association, and does not pass resolutions.

**Please state your reasons for intervening in this proceeding:**

Fundamentally, MIPUG intervenes to ensure Manitoba Hydro rates are cost-based and based on the cost to serve each customer class. MIPUG companies are long-term economic contributors to Manitoba, and as such require stable and predictable rates over the long-term.

MIPUG's focus for this proceeding, given the unprecedented request by Manitoba Hydro for a one-year final rate increase without filing the detailed support usually provided for final rates (including long-term forecasts), will be on financial and economic cost considerations for the short-term and forecast accuracy of Manitoba Hydro's application. MIPUG as well plans to review cost of service based rate setting considerations given the PUB's commitment in setting 2018/19 rates and moving forward to balance revenue-to-cost ratios for customer classes.

MIPUG does not plan to review in detail most detailed methodological or long-term matters that have been deferred by the PUB until Manitoba Hydro's next GRA filing (as listed in PUB correspondence to Manitoba Hydro and past interveners dated November 21, 2018).

**Please state how you are directly affected by the Board's decision in this matter:**

The Board's decision will impact the rates charged for electricity in the 2019/20 year. MIPUG members, as General Service Large customers of Manitoba Hydro, are directly impacted by increased rates for electricity, increasing individual operating costs. MIPUG members as industrials can not often pass along increased costs in their product cost, which is often set by market, economic and/or contract conditions.

Additionally, the Board's decision may establish how future rate proceedings unfold in Manitoba, and industrials, who often operate under long-lead planning cycles for output economics as well as investment decisions, want to ensure timing considerations and predictability in rate setting is protected.

**Please explain whether and how you represent a substantial number of ratepayers that are otherwise not represented on issues that are within the scope of this proceeding:**

MIPUG's 11 customers collectively purchase over 4,000 GWh of electricity annually, approximately 18% of total domestic sales. More broadly, MIPUG works as a group to represent the interests of the three GSL classes, which makes up approximately 35% of Manitoba Hydro's total domestic sales.

There are no other intervenors in this proceeding representing the interests of large power users.

**Please describe your experience, information, or expertise relevant to this matter that would contribute to the Board's decision making, including any other prior interventions in regulatory matters before this Board or other decision-makers:**

MIPUG has intervened in every Manitoba Hydro hearing since the late 1980's, including the Centra Gas Acquisition, the 2006 and 2015 Cost of Service methodology reviews and the Needs

For and Alternatives To (NFAT) review. As a result MIPUG's intervention is focused on Manitoba Hydro specific context. Many MIPUG member companies are involved in similar groups dealing with rate matters in other jurisdictions and have intervened as such, including but not limited to BC, Quebec, Ontario, and Alberta.

**Please list the key issues you intend to address in the proceeding. Please be specific.**

While it is still preliminary, MIPUG intends to focus its intervention on key economic and financial conditions that impact costs and revenues, especially in comparison to the last GRA forecasts and the 2017/18 and 2018/19 actual years. This may include interest rates and borrowing costs, progress on Keeyask borrowings and construction schedule since the last GRA (for impacts on borrowings and cash-flow), Bipole III in-service cost implications, load forecast, DSM spending and savings, water levels and retained earnings (for purposes of short-term risk considerations and mitigation), export sales prices and export forecast updates (including volumes and contracts), O&M savings and attritions, etc. MIPUG also intends to test Hydro's application to ensure that the information provided is current and complies with all PUB directives.

MIPUG has already met with the Consumer Coalition's to date, and while it is preliminary to determine which specific issues will be covered by which intervener, there is agreement that collaboration will take place such to avoid duplication in intervention. This has been demonstrated in past proceedings where MIPUG and the Consumer's Coalition have worked together on areas of mutual concern.

**Do you intend to request an award of costs for your participation? Please explain how you meet the criteria for an award of costs.**

Yes, MIPUG intends to request an award of costs for participation. Per the PUB's Intervener Cost Policy for Manitoba Hydro's 2019/20 General Rate Application Section 3.0, the eligibility criteria for when the Board may award costs to any intervener who has:

- (a) made a significant contribution that is relevant to the proceeding and contributed to a better understanding, by all parties, of the issues before the Board;
- (b) participated in the hearing in a responsible manner and cooperated with other Interveners who have common objectives in the outcome of the proceedings in order to avoid a duplication of intervention;
- (c) represented interests beyond their sole business interest; and
- (d) a substantial interest in the outcome of the proceeding and represents the interests of a substantial number of ratepayers.

Regarding part (a), MIPUG has proven in past intervention that its intervention is focused on matters directly impacting Manitoba Hydro rates and makes a significant contribution in rate applications. MIPUG intends to focus its intervention in this proceeding to make a relevant contribution considering the short-term considerations in this proceeding and that Manitoba Hydro intends to file a full GRA in late 2019.

For part (b), MIPUG is coordinating with the Consumer's Coalition in intervention, as expressed above.



For part (c) MIPUG's interests are not solely related to members' business interests, but also ensuring the long-term sustainment of all Manitoba industry and ratepayers generally, and balancing impacts on the Manitoba economy, in both the short- and long-term. MIPUG's interests are not on setting the lowest rate possible in a given hearing, but in maintaining reliable electricity service at predictable rates set based on the cost of service.

For part (d) MIPUG's membership includes a substantial number of industrial customers (currently 11 members) representing many different industries operating in Manitoba, many rural and often among the largest employers in their respective communities. MIPUG members have a substantial interest in the outcome of the proceeding, and MIPUG intervention is coordinated with other industrials to ensure that its representative of not only MIPUG members but all three General Service Large customer classes.

As the process for this proceeding has not yet been established, MIPUG proposes to submit a detailed budget for consideration by the PUB once this is known.



## PATRICK BOWMAN

### *PRINCIPAL AND CONSULTANT*

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#### AREAS OF EXPERIENCE:

- Utility Regulation and Rates
  - Project Development and Planning
  - Utility Resource Planning
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#### EDUCATION:

- MNRM (Master of Natural Resources Management), University of Manitoba, 1998
  - Bachelor of Arts (Human Development and Outdoor Education), Prescott College (Arizona), 1994
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#### PROFESSIONAL EXPERIENCE:

**InterGroup Consultants Ltd., Winnipeg, Manitoba**  
*1998 – Present – Research Analyst/Consultant/Principal*  
*Utility Regulation*

*Conducted research and analysis for regulatory and rate reviews of electric, gas and water utilities in six Canadian provinces and territories. Prepare evidence and expert testimony for regulatory hearings. Assist in utility capital and operations planning to assess impact on rates and long-term rate stability. Major clients included the following:*

- **For Manitoba Industrial Power Users Group (1998 – Present):** *Prepare analysis and evidence for regulatory proceedings before Manitoba Public Utilities Board representing large industrial energy users. Appear before PUB as expert in General Rate Application and revenue requirement reviews, the Needs For and Alternatives To (NFAT) resource planning hearing, cost of service, and rate design matters. Assist in regulatory analysis of the purchase of local gas distributor (CentraGas) by Manitoba Hydro. Assist industrial power users with respect to assessing alternative rate structures, surplus energy rates and demand side management initiatives including curtailable rates and load displacement.*
- **For Northwest Territories Power Corporation (2000 - Present):** *Provide technical analysis and support regarding General Rate Applications and related Public Utilities Board*



filings. Assist in preparation of evidence and providing overall guidance to subject specialists in such topics as depreciation and return. Appear before PUB as expert in revenue requirement, cost of service and rate design matters, and on system planning reviews (Required Firm Capacity).

- **For Industrial Customers of Newfoundland and Labrador Hydro (2001 – Present):** Prepare analysis and evidence for Newfoundland Hydro GRA hearings before Newfoundland Board of Commissioners of Public Utilities representing large industrial energy users. Provide advice on interventions in respect of major new transmission facilities. Appear before PUB as expert in cost of service and rate design matters.
- **For Nelson Hydro (2013 - Present):** Development and updating of a Cost of Service model.
- **For the Office of the Utilities Consumer Advocate of Alberta (2016 – Present):** Providing expert witness and strategic support of depreciation matters in the Altalink Management Ltd. 2017 – 2018 General Rate Tariff Application (Proceeding 21341) and in the 2019 – 2020 GTA (Proceeding 23848). This includes ongoing participation in depreciation working group discussions on behalf of the UCA. Provide expert witness and strategic support of depreciation matters in the ATCO Pipelines 2017 – 2018 General Rate Application (Proceeding 22011). Currently providing expert witness and strategic support on all areas of the ATCO Pipelines 2019 – 2020 GRA (Proceeding 23793). This includes ongoing support in Compliance Filing (Proceedings 22986) and in Review & Vary filing (Proceeding 23539).
- **For Hualapai Tribal Utility Authority (2017-2018):** Provided strategic consultation to the HTUA Board, and completion of a feasibility study and Cost of Service analysis for the development of a municipally owned distribution utility, including power purchase and transmission, asset purchase (acquisition value) and replacement costs, and ongoing operation and maintenance costs. The assignment included a review of comparable jurisdiction cost and rate structures, building a financial model with input cost variables, reporting and presenting in HTUA Board meetings.
- **For Municipal Customers of City of Calgary Water Utility (2012 – 2017):** Analysis of proposed new development charges and reasonableness of water and wastewater rates, technical assistance in analysis of City of Calgary Cost of Service process (City of Chestermere, City of Airdrie, Town of Cochrane, and Town of Strathmore).
- **For City of Chestermere (2015 – 2017):** Analysis of two annual rate increase proposals from Chestermere Utilities Inc., and advice to Chestermere City Council.
- **For Yukon Energy Corporation (1998 - 2014):** Provide analysis and support of regulatory proceedings and normal regulatory filings before the Yukon Utilities Board. Appear before YUB as expert on revenue requirement matters, cost of service, rate design, and resource planning. Prepare analysis of major capital projects, financing mechanisms to reduce rate impacts on ratepayers, depreciation, as well as revenue requirements.
- **For City of Swift Current (2013 - 2014):** Utility system valuation approach.
- **For Yukon Development Corporation (1998 - 2012):** Prepare analysis and submission on



energy matters to Government. Participate in development of options for government rate subsidy programs. Assist with review of debt purchase, potential First Nations investment in utility projects, and corporate governance.

- **For NorthWest Company Ltd. (2004 - 2006):** Review rate and rider applications by Nunavut Power Corporation (Qulliq Energy), provide analysis and submission to rate reviews before the Utility Rates Review Council.

*Project Development, Socio-Economic Impact Assessment and Mitigation*

*Provide support in project development, local investment opportunities or socio-economic impact mitigation programs for energy projects, including northern Manitoba, Yukon, and NWT. Support to local communities in resolution of outstanding compensation claims related to hydro projects.*

- **For Yukon Energy Corporation (2005 - 2014):** Participated in preparation of resource plans, including Yukon Energy's 20-Year Resource Plan Submission to the Yukon Utilities Board in 2005 (including providing expert testimony before the YUB), advisor on 2010 update. Project Manager for all planning phases of the Mayo B hydroelectric project (\$120 million project) including environmental assessment and licencing, preliminary project design, preparation of materials for Yukon Utilities Board hearing, joint YEC/First Nation working group on all technical matters related to project including fisheries, managing planning phase financing and budgets. Assistance in preparation of assessment documentation for Whitehorse LNG generation project.
- **For Northwest Territories Power Corporation (2010 - 2012):** Participate in planning stages of \$37 million dam replacement project; appear before Mackenzie Valley Land and Water Board (MVLWB) regarding environmental licence conditions; participate in contractor negotiations, economic assessments, and ongoing joint company/contractor project Management Committee. Provide economic and rate analysis of potential major transmission build-out to interconnect to southern jurisdictions. Conduct business case analysis for regulatory review of projects \$400,000-\$5 million, and major PUB Project Permit reviews of projects >\$5 million.
- **For Northwest Territories Energy Corporation (2003 - 2005):** Provided analysis and support to joint company/local community working groups in development of business case and communication plans related to potential new major hydro and transmission projects.
- **For Kwadacha First Nation and Tsay Keh Dene (2002 - 2004):** Support and analysis of potential compensation claims related to past and ongoing impacts from major northern BC hydroelectric development. Review options related to energy supply, including change in management contract for diesel facilities, potential interconnection to BC grid, or development of local hydro.
- **For Manitoba Hydro Power Major Projects Planning Department (1999 - 2002):** Initial review and analysis of socio-economic impacts of proposed new northern generation stations and associated transmission. Participate in joint working group with client and northern First Nation on project alternatives (such as location of project infrastructure).



- **For Manitoba Hydro Mitigation Department (1999 - 2002):** Provided analysis and process support to implementation of mitigation programs related to past northern generation projects, debris management program. Assist in preparation of materials for church-led inquiry into impacts of northern hydro developments.
- **For International Joint Commission (1998):** Analysis of current floodplain management policies in the Red River basin, and assessment of the suitability of alternative floodplain management policies.
- **For Nelson River Sturgeon Co-Management Board (1998 and 2005):** An assessment of the performance of the Management Board over five years of operation and strategic planning for next five years.

**Government of Northwest Territories, Yellowknife, Northwest Territories**

1996 – 1998 Land Use Policy Analyst

- Conducted research into protected area legislation in Canada and potential for application in the NWT. Primary focus was on balancing multiple use issues, particularly mining and mineral exploration, with principles and goals of protection.

**Patrick Bowman - Experience in Utility Regulatory Proceedings**

Utility	Proceeding	Work Performed	Before	Client	Year	Testimony
Yukon Energy Corporation	Final 1997 and Interim 1998 Rate Application	Analysis and Case Preparation	Yukon Utilities Board (YUB)	Yukon Energy	1998	No
Manitoba Hydro	Curtailable Service Program Application	Analysis, Preparation of Intervenor Evidence and Case Preparation	Manitoba Public Utilities Board (MPUB)	Manitoba Industrial Power Users Group (MIPUG)	1998	No
Yukon Energy	Final 1998 Rates Application	Analysis and Case Preparation	YUB	Yukon Energy	1999	No
Westcoast Energy	Sale of Shares of Centra Gas Manitoba, Inc. to Manitoba Hydro	Analysis and Case Preparation	MPUB	MIPUG	1999	No
Manitoba Hydro	Surplus Energy Program and Limited Use Billing Demand Program	Analysis and Case Preparation	MPUB	MIPUG	2000	No
West Kootenay Power	Certificate of Public Convenience and Necessity - Kootenay 230 KV Transmission System Development	Analysis of Alternative Ownership Options and Impact on Revenue Requirement and Rates	British Columbia Utilities Commission (BCUC)	Columbia Power Corporation/Columbia Basin Trust	2000	No
Northwest Territories Power Corporation (NTPC)	Interim Refundable Rate Application	Analysis and Case Preparation	Northwest Territories Public Utilities Board (NWT PUB)	NTPC	2001	No
NTPC	2001/03 Phase I General Rate Application	Analysis and Case Preparation	NWT PUB	NTPC	2000-02	No - Negotiated Settlement
Newfoundland Hydro	2002 General Rate Application	Analysis, Preparation of Intervenor Evidence and Case Preparation	Board of Commissioners of Public Utilities of Newfoundland and Labrador (NLPUB)	Newfoundland Industrial Customers	2001-02	No
NTPC	2001/02 Phase II General Rate Application	Analysis, Preparation of Company Evidence and Expert Testimony	NWT PUB	NTPC	2002	Yes
Manitoba Hydro/Centra Gas	Integration Hearing	Analysis and Case Preparation	MPUB	MIPUG	2002	No
Manitoba Hydro	2002 Status Update Application/GRA	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2002	Yes
Yukon Energy	Application to Reduce Rider J	Analysis and Case Preparation	YUB	Yukon Energy	2002-03	No
Yukon Energy	Application to Revise Rider F Fuel Adjustment	Analysis and Case Preparation	YUB	Yukon Energy	2002-03	No
Newfoundland Hydro	2004 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	NLPUB	Newfoundland Industrial Customers	2003	Yes
Manitoba Hydro	2004 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2004	Yes
NTPC	Required Firm Capacity/System Planning hearing	Analysis, Preparation of Company Evidence and Expert Testimony	NWT PUB	NTPC	2004	Yes
Nunavut Power (Qulliq Energy)	2004 General Rate Application	Analysis, Preparation of Intervenor Submission	Nunavut Utility Rate Review Commission (URRC)	NorthWest Company (commercial customer intervenor)	2004	No
Qulliq Energy	Capital Stabilization Fund Application	Analysis, Preparation of Intervenor Submission	URRC	NorthWest Company	2005	No
Yukon Energy	2005 Required Revenues and Related Matters Application	Analysis, Preparation of Company Evidence and Expert Testimony	YUB	Yukon Energy	2005	Yes
Manitoba Hydro	Cost of Service Methodology	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2006	Yes
Yukon Energy	2006-2025 Resource Plan Review	Analysis, Preparation of Company Evidence and Expert Testimony	YUB	Yukon Energy	2006	Yes
Newfoundland Hydro	2006 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	NLPUB	Newfoundland Industrial Customers	2006	No - Negotiated Settlement
NTPC	2006/08 General Rate Application Phase I	Analysis, Preparation of Company Evidence and Expert Testimony	NWT PUB	NTPC	2006-08	Yes
Manitoba Hydro	2008 General Rate Application	Analysis, Preparation of Company Evidence and Expert Testimony	MPUB	MIPUG	2008	Yes
Manitoba Hydro	2008 Energy Intensive Industrial Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2008	Yes
Yukon Energy	2008/2009 General Rate Application	Analysis, Preparation of Company Evidence and Expert Testimony	YUB	Yukon Energy	2008-09	Yes
FortisBC	2009 Rate Design and Cost of Service	Analysis and Case Preparation	BCUC	BC Municipal Electrical Utilities	2009-10	No
Yukon Energy	Mayo B Part III Application	Analysis, Preparation of Company Evidence	YUB	Yukon Energy	2010	No
Yukon Energy	2009 Phase II Rate Application	Analysis, Preparation of Company Evidence and Expert Testimony	YUB	Yukon Energy	2009-10	Yes
Newfoundland Hydro	Rate Stabilization Plan (RSP) Finalization of Rates for Industrial Customers	Analysis, Preparation of Intervenor Evidence	NLPUB	Newfoundland Industrial Customers	2010	No
Manitoba Hydro	2010/11 and 2011/12 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2010-11	Yes
NTPC	Bluefish Dam Replacement Project	Analysis, Preparation of Company Evidence and Expert Testimony	Mackenzie Valley Land and Water Board	NTPC	2011	Yes
NTPC	2012/14 General Rate Application	Analysis, Preparation of Company Evidence and Expert Testimony	NWT PUB	NTPC	2012	Yes
Manitoba Hydro	2012/13 and 2013/14 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2013	Yes
Manitoba Hydro	Needs For and Alternatives To Investigation	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2014	Yes
Manitoba Hydro	2015/16 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2015	Yes
Newfoundland Hydro	Amended 2013 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	NLPUB	Newfoundland Industrial Customers	2015	No - merged into 2015 General Rate Application
Newfoundland Hydro	2015 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	NLPUB	Newfoundland Industrial Customers	2015	Yes
Manitoba Hydro	2016 Cost of Service review	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2016	Yes
Chestermere Utilities Inc.	2017 Rate Increase Request	Analysis, Preparation of Rate Review	City of Chestermere City Council	City of Chestermere City Council	2016	Presentation to Council
Newfoundland Hydro	2017 General Rate Application	Pre-Filed Evidence and Negotiated Settlement	NLPUB	Newfoundland Industrial Customers	2017-2018	
Altalink Management Limited	2017-18 General Tariff Application	Analysis, Support of Consumer Advocate during Negotiated Settlement Process on depreciation matters	Alberta Utilities Commission (AUC)	Alberta Utilities Consumer Advocate (UCA)	2016-17	No - Negotiated Settlement
ATCO Pipelines	2017-18 General Rate Application	Analysis, Preparation of Intervenor Evidence on depreciation matters	AUC	Alberta Utilities Consumer Advocate (UCA)	2016-17	No - Written Process only
Manitoba Hydro	2017/18 and 2018/19 General Rate Application	Analysis, Preparation of Intervenor Evidence and Expert Testimony	MPUB	MIPUG	2017-18	Yes
ATCO Pipelines	2017-18 GRA Review and Vary	Analysis and Case Preparation	AUC	Alberta Utilities Consumer Advocate (UCA)	2017-18	No - Written Process only
ATCO Pipelines	2019-20 General Rate Application	Analysis, Preparation of Intervenor Evidence	AUC	Alberta Utilities Consumer Advocate (UCA)	2018 - present	ongoing
Altalink Management Limited	2019-20 General Tariff Application	Analysis, Preparation of Intervenor Evidence on depreciation matters	AUC	Alberta Utilities Consumer Advocate (UCA)	2018 - present	ongoing





## MELISSA DAVIES

### RESEARCH CONSULTANT

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#### AREAS OF EXPERIENCE:

- Utility Regulation and Rates, including load forecast, revenue requirement, cost of service and rate design
  - Financial and Economic analysis, projections and modelling
  - Financial Evaluation including Cost-Benefit Analysis, NPV and Business Valuation
  - System and Resource Planning including supply and demand projections
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#### EDUCATION:

- Master of Business Administration (MBA), majors in Finance and Sustainability, Asper School of Business, University of Manitoba, 2015
  - Bachelor of Commerce (Honours), major in Actuarial Mathematics, Asper School of Business, University of Manitoba, 2010
  - Passed Society of Actuaries Exam FM/2, 2008
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#### PROFESSIONAL EXPERIENCE:

##### **InterGroup Consultants Ltd., Winnipeg, Manitoba & Vancouver, B.C.**

*2010 – Present – Research Analyst/Research Consultant*

- **For Manitoba Industrial Power Users Group (2010 – Present):** Analytical and strategic support for expert and legal services participation in general rate applications and other proceedings (including most recently the 2016 Cost of Service Review proceeding) which review and analyse Manitoba Hydro's revenue requirement, cost of service, rate design, system planning, load forecast, financial targets, depreciation, economic conditions and effects and financial analysis matters. Assist industrial power users with respect to assessing alternative rate structures and surplus energy rates. Analytical and strategic support for expert and legal services in the 2013 Needs For and Alternatives To (NFAT) review before Manitoba Public Utilities Board representing large industrial energy users in review of \$20 billion+ long-term





utility resource capital plans. Role for the NFAT included multi-forum stakeholder engagement with Manitoba businesses and industry to identify and report on energy requirements and resourcing perspectives from this market segment. Provides secretariat services and acts as client liaison to the Group, with regular reporting, engagement and planning for member meetings and supporting group energy-related initiatives. Assisted in the development of the 2012 and 2015 MIPUG Economic Impact Assessments, which surveyed members and reported on the local and regional economic benefits of energy intensive industry in Manitoba, both quantitative and qualitative.

- **For Saskatchewan Rate Review Panel (2013 – Present):** Provides support in regulatory, economic and financial analysis and reporting to provide advice to the Saskatchewan Rate Review Panel on commodity and delivery rate applications submitted by SaskEnergy and for General Rate Applications submitted by SaskPower, specializing in review of cost of service, rate design, depreciation methods, financial forecast evaluation (including financial targets), and load forecast.
- **For Northwest Territories Power Corporation (2010 – Present):** Provides technical support in the regards to the filing of General Rate Applications, including the 2012 and 2017 Applications. This includes modeling and development of community specific and territory wide load forecast, cost of service study and rate design options for residential, general service and wholesale customers. Provided technical support in the 2010 application to Implement Electricity Rate Policy Guidelines application. Undertakes research, writing, and development for economic, financial and regulatory policy assessment and strategy.
- **For the Utilities Consumer Advocate of Alberta (2016 – Present):** Support in review and analysis related to depreciation matters in the Altalink Management Ltd. 2017 – 2018 General Tariff Application (GTA) and presently in the 2019 – 2020 GTA. Support in the review and analysis of depreciation matters, including preparation of expert evidence in the ATCO Pipelines 2017 – 2018 General Rate Application. Technical support in the preparation of expert evidence in the ATCO Pipelines 2019 – 2020 General Rate Application.
- **For the City of St. John's, Newfoundland (2018):** Provided a report on water rental rate options for extending the existing water rights of the Mobile River watershed between the City and Newfoundland Power. The report included a jurisdictional review, analysis on potential rate options and framework and an overview of high-level hydroelectric asset acquisition considerations, including power pricing and cost of service.
- **For the Hualapai Tribal Utility Authority (HTUA) (2017 – 2018):** Provided financial analysis to complete a feasibility study and Cost of Service analysis (including financial model) for the development of a municipally owned distribution utility, including power purchase and transmission, asset purchase (acquisition value) and replacement costs, and ongoing operation and maintenance costs. The assignment included a review of comparable jurisdiction cost and rate structures, building a financial model with input cost variables, reporting and presenting in HTUA Board meetings.



- **For the Association of Major Power Consumers of British Columbia (2014 – 2017):** Provided technical and analytical support in BC Hydro electricity rate design and cost of service matters before the British Columbia Utilities Commission with a focus on general service large and transmission service customers.
- **For the Forks North Portage Corporation (2015 - 2016):** Prepared economic profile assessing the economic impacts of tourist destination The Forks including quantitative analysis of direct and indirect benefits for Manitoba.
- **For the British Columbia Utilities Commission (2015):** Provided support in the review and assessment of deferral account (or regulatory account) treatment for various Canadian and American utility jurisdictions including review of regulatory and economic policy and financial forecasts.
- **For Industrial Customers of Newfoundland and Labrador Hydro (2010 – 2014):** Support in the preparation of technical analysis and evidence for Newfoundland Hydro GRA hearings and the rate stabilization plan application before Newfoundland Board of Commissioners of Public Utilities representing large industrial energy users.
- **For Minaki Cottagers Association (2013 – 2014):** Analysed and reported on the possible socio-economic effects including economic consumption and supply capacity of evolving plans to redevelop the former Minaki Lodge site into condominium units with a focus on safety, recreational, cultural and heritage impacts on the existing customers and area. Reviewed past and comparative developments to establish benchmarks for sizing due to the unorganized territory status of Minaki.
- **For Tsay Keh Dene First Nation and Kwadacha First Nation (2011):** Prepared analysis on a comparison between existing rates and proposed changes. Technical support, research, writing and development of Community Energy Study. Assisted in research, analysis and writing for Tsay Keh Dene and Kwadacha First Nations in British Columbia regarding the consultation process of the potential Site C Clean Energy Project.
- **For Manitoba Hydro, Keeyask Generation Project (2010 – 2012):** Provided technical analysis and support for the Keeyask Generation Project economic employment model, assisting with analysis of the economic and socio-economic consequences of the Project. Provide support and research to the Environmental Impact Statement Core document management and executive summary. Assisted in development of a stakeholder socio-economic assessment including cost-benefit analysis and economic evaluation regarding the potential listing of lake sturgeon as an endangered species in Manitoba under Section 1 of the Species at Risk Act.

**Melissa Davies Utility Regulatory Support Experience 2010 - Present**

<b>Utility</b>	<b>Proceeding</b>	<b>Before</b>	<b>Client</b>	<b>Year</b>
Northwest Territories Power Corporation (NTPC)	2010 Rate Rebalancing Application	Northwest Territories Public Utilities Board (NWTPUB)	Northwest Territories Power Corporation (NTPC)	2010
Newfoundland Hydro	Rate Stabilization Plan (RSP) Finalization of Rates for Industrial Customers	Board of Commissioners of Public Utilities of Newfoundland and Labrador (NLPUB)	Newfoundland Island Industrial Customers	2010
Manitoba Hydro	2010/11 and 2011/12 General Rate Application	Manitoba Public Utilities Board (MPUB)	MIPUG	2010
NTPC	2012/13 & 2013/14 General Rate Application	NWTPUB	NTPC	2012
Manitoba Hydro	2012/13 and 2013/14 General Rate Application	Manitoba Public Utilities Board (MPUB)	MIPUG	2013
SaskEnergy	2013/14 and 2014/15 Natural Gas Delivery Rate Application	Saskatchewan Rate Review Panel (SRRP)	SRRP	2013
Manitoba Hydro	Needs For and Alternatives To Investigation	MPUB	MIPUG	2014
SaskEnergy	2015/16 Natural Gas Delivery and Commodity Rate Application	Saskatchewan Rate Review Panel (SRRP)	SRRP	2015
Manitoba Hydro	2014/15 and 2015/16 General Rate Application	MPUB	MIPUG	2015
SaskPower	2016 and 2017 Rate Application	SRRP	SRRP	2016
Manitoba Hydro	2016 Cost of Service Review	MPUB	MIPUG	2016
Altalink Management Limited	2017-2018 General Tariff Application	Alberta Utilities Commission (AUC)	Alberta Utilities Consumer Advocate (UCA)	2016-17
NTPC	2017/18 and 2018/19 Phase I & II General Rate Application	NWTPUB	NTPC	2016-17
ATCO Pipelines	2017-2018 General Rate Application	AUC	UCA	2016-17
SaskPower	2018 Rate Application	SRRP	SRRP	2017
Manitoba Hydro	2017/18 and 2018/19 General Rate Application	MPUB	MIPUG	2017-18
ATCO Pipelines	2019-2020 General Rate Application	AUC	UCA	2018 - present
Altalink Management Limited	2019-2020 General Tariff Application	AUC	UCA	2018 - present