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September 7, 2017

Delivered by Courier, Email & RESS

Ms. Kirsten Walli Board Secretary Ontario Energy Board 2300 Yonge Street Suite 2701 Toronto, ON M4P 1E4

Dear Ms. Walli:

Re: InnPower Corporation 2017 Rate Application (EB-2016-0085) Technical Conference - Witness CVs

On behalf of InnPower Corporation, and pursuant to Procedural Order No. 3 in the above captioned matter, the witnesses that will be in attendance at the technical conference on Tuesday Sept. 12th and Wednesday Sept. 13th are as follows:

- 1. Walter Malcolm, President and CEO, InnPower Corporation
- 2. Jennifer Cowles, Interim CFO/Treasurer, InnPower Corporation
- 3. Shannon Brown, Vice President, Corporate Services, InnPower Corporation
- 4. Brenda Pinke, Regulatory & Conservation Manager, InnPower Corporation
- 5. Michael Davison, Engineering Manager, InnPower Corporation
- 6. Bruce Bacon, Senior Utility Rate Consultant, BLG
- 7. Daryn Thompson, Vice President, Utility Consulting, METSCO

The CVs for each of the witnesses are attached to this letter.

InnPower does not intend to seek to qualify any witnesses as experts. Witnesses that are from third party firms are giving evidence as fact witnesses.



Yours very truly,

BORDEN LADNER GERVAIS LLP

Per:

Original signed by John A.D. Vellone

John A.D. Vellone

CC: Intervenors of record in EB-2016-0085

Walter J. Malcolm, MBA, P.Eng.

PROFESSIONAL EXPERIENCE

InnPower Corporation Innisfil, Ontario President & CEO (2016 – Present) Electrical Distribution Company

InnServices Utilities Inc. Innisfil, Ontario President & CEO (2016 – Present) Water and Waste Water Company

Innisfil Energy Services Limited Innisfil, Ontario President & CEO (2016 – Present) Energy Services Company

Kitchener Utilities City of Kitchener Kitchener, Ontario Director, Utilities (2008-2016)

Natural Gas Supply and Distribution, Water Distribution, Rental Water Heater, Appliance Services

Waterloo North Hydro Inc. Waterloo, Ontario Vice-President, Operations (2006-2008)

Operations Department - Line Construction, Fleet, Purchasing and Stores, Forestry, Field Services, and Operations Control Centre.

Vice-President, Customer Services (2001-2006)

Customer Services Department - Community Relations, Billing, Collecting, Energy Service, Key Accounts and Privacy - Chief Privacy Officer for the organization.

Distribution Engineering Supervisor (1991-2001)

Engineering Department - Design of the electrical distribution, street lighting, fiber optic systems and system planning.

Algoma Steel Corporation Limited Sault Ste. Marie, Ontario Engineering Assistant, Utilities Division (1989-1991)

Design of electrical distribution facilities and control systems.

Education

Brock University St. Catherines, Ontario Bachelor of Education - Adult and Continuing Education and Teaching

Wilfrid Laurier University

Waterloo, Ontario Master of Business Administration Diploma in Business Administration

Lakehead University

Thunder Bay, Ontario Bachelor of Engineering -Electrical Electrical Engineering Technology Diploma

Professional Membership

Professional Engineers - Ontario Licensed Professional Engineer

Executive Board Involvement

Festival Hydro Inc. Stratford Ontario Board of Directors (2008 – Present) Chair (2012-Present) Vice-Chair (2010-2012) Board Committees: Audit and Finance Committee (2010-Present), Committee Chair (2010-2013, 2016- Present) HR and Risk Management Committee (2008-Present)

Festival Hydro Services Inc. (Rhyzome Networks Inc.)

Stratford Ontario Board of Directors (2008 – Present) Chair (2012- Present) Vice-Chair (2010 – 2012)

Technical Standards & Safety Authority (TSSA)

Natural Gas Advisory Council (2009 - 2016)

Interim CFO/ Treasurer

INNPOWER CORPORATION (formerly Innisfil Hydro Distribution Systems Limited)

Local hydro distribution company serving Innisfil and South Barrie

Interim CFO/Treasurer (Jan 2017 – current)

Professional Experience

Responsible for the financial stewardship of the Corporations through the development and recommendation of multiyear business plans, financial forecasts, and adoption of policies and strategies in compliance with the Corporation's goals, objectives and regulatory oversight. Provide professional advice and assistance for best practices and emerging trends to staff, Managers, Executive Management and the Board of Directors. Fulfil the role and perform the required duties of Treasurer including the keeping of proper accounting records, depositing of all monies received by the Corporation, safekeeping of securities and disbursements of the funds of the Corporation.

Accounting Manager (Dec 2010 – Jan 2017)

Provide leadership to finance team of six, encompassing Accounting, Finance, Treasury, Capital and Operating Budgets, Internal Controls, Audit, Capital Assets, Insurance and Project Management. Provide financial services to the corporation and, pursuant to shared services agreements, its affiliates.

Served on the Finance Council of the Electricity Distributors Association, the Finance Steering Committee of Cornerstone Hydro Electric Concepts Inc., and various industry working groups to collaborate on solutions to changes and challenges in the industry.

Sept 2005 – Aug 2010

J.O. BERNT & ASSOCIATES LTD. / PYROPHOBIC SYSTEMS LTD.

Manufacturer of systems for cement, pulp & paper, and construction industries.

Controller

Directed finance and production teams to meet the objectives of the two companies, including Accounting, Finance, Treasury, Sales Forecasts, Internal Controls, Audit, Insurance, Health & Safety and Human Resources.

Apr 2002 – Apr 2005

CAREER MARKETING SPECIALISTS INC.

Outplacement Services Company

Accounting Supervisor

Provide financial stewardship and reporting to senior management, including Accounting, Reporting, Project Management and Customer Service.

Previous positions included: <u>SELF-EMPLOYED BOOKKEEPING (1995-2002)</u> <u>MAD RIVER GOLF CLUB (1989-1994)</u> – Accounts Receivable Clerk

Education / Training

Chartered Professional Accountant, Certified General Accountant, Ontario Honours Bachelor of Commerce, Laurentian University, Sudbury, Ontario Mohawk College Enterprise Future Ready Leaders Program, Ontario Dec 2010 – current

Mr. Shannon Brown Vice President Corporate Services InnPower Corporation

<u>EDUCATION:</u>	Georgian College of Applied Arts and Technology Barrie ON – Business Administration Program, Majoring In Accounting. Graduated in August, 1991- Dean's List.
June, 1984	Graduated Grade 12 with Honours from Midland Secondary School, Midland ON.
WORK EXPERIENCE:	
Jan 2015 – present	Vice President, Corporate Services, InnPower Corporation
May 2004 – Jan 2015	Metering/IT Manager, Innisfil Hydro
July 2001 – May 2004	IT/Settlements Officer, Innisfil Hydro
July 1997 - July 2001	Information Systems/Customer Service Representative Innisfil Hydro
July 1993 to Jun 1997	Customer Service Representative, Innisfil Hydro

Brenda L. Pinke

16 Twiss Drive Barrie, ON L4N 8P3 (705) 725-9788 blpinke@sympatico.ca

Profile: Senior Manager offering 25+ years of diverse operational management experience driven towards exceeding expectations, with a proven track record in motivating teams to meet and exceed corporate goals. Demonstrated skills in vendor relationship management and negotiating win-win resolutions.

Experience:

InnPower Corporation, Innisfil, ON Regulatory & Conservation Manager

Responsible for the Regulatory and the Conservation portfolios, key areas of responsibilities include,

- Development of reporting requirements for the Company including quality assurance, ensuring compliance with the Ontario Energy Board, IESO, and related industry standards.
- Data gathering, analysis and preparation of electricity rate applications representing InnPower's Business Plan \triangleright
- \triangleright Development and deployment of InnPower's CDM plan, securing third party vendors, undertaking QA/QC, and ensuring that 80% of the achievable potential target is achieved.
- \triangleright Development of an internal monthly scorecard for all SQI's and KPI's and deployed to all staff to increase overall knowledge of contributions and departmental impacts

Direct Energy, Toronto, ON Director, Utility Operations - Canada

Responsible to direct and maintain the overall relationship with 105 local distributors (gas and power), competitive retailers and the associated industry working groups to influence and drive business change in order to support Direct Energy business strategies.

Accomplishments:

- \geq Built a pan-Canadian team of 3 Managers to support 105 local distributors across 3 provinces: Ontario, Alberta and British Columbia. Directed market open in British Columbia with Terasen Gas.
- Prime lead for Gas Distribution Access Rule (GDAR) at the Ontario Energy Board (OEB). Influenced the development of the \geq GDAR EBT Standards to provide consistency with the Power EBT Standards, thus mitigating design and implementation costs to the organization. Responsible to oversee GDAR project design and implementation to meet market implementation date. GDAR successfully implemented on time and budget, with full compliance to market rules.
- \geq Elected Smart Metering Implementation (SMISP) retailer representative (Direct Energy, Ontario Energy Savings, Universal, Summit and Superior Energy). Participated on the CIS working team.
- Worked directly with Ontario gas distributors to initiate process reviews to focus on churn reduction and enrolment lead times. \geq Outcome of process review resulted in churn reduction of 5000 customers annually with an associated revenue of \$29M.
- Initiated review with OEB staff for market "renewals" process for the Ontario market, with respect to the timing of when an \geq account would be returned to system supply without incurring hedging risk or increased costs for LDC's. Outcome resulted in Compliance bulletin which mitigated \$11M risk to the organization.

Direct Energy, Toronto, ON

Senior Manager Utility Operations - Eastern Region

Prime representative for Direct Energy to maintain the overall relationship with the electricity utilities, competitive retailers and the associated industry working groups to influence and drive business change to support Direct Energy business strategies.

Accomplishments:

2005 - 2009

2009 – Present

2003 - 2004

- Lead for electricity seamless moves process change and compliance monitoring which resulted in a 30% annual increase in seamless moves and contributed to 52% of the retention results.
- Successfully gained market consensus to implement Version 3.0 of the EBT Standards for April 2005 from October 2005. Release 3.0 introduced process changes which increased seamless moves by an additional 15%, and the April implementation date ensured that peak churn timeframes were maximized.
- Influenced Toronto Hydro to implement standard market processes for "meter changes" which resulted in an overall churn reduction of 7%.
- Business sponsor for CCL automation to process seamless moves, resulted in an FTE reduction of 3 I the first year of implementation and further cost avoidance of 6 FTE's.
- Project lead for the MPMA market rebate, successfully developed a repeatable process for the market rebate and facilitated agreement on consumption with all 67 utilities without dispute, resulting in a rebate of \$110M and exceeding EMG's forecast by \$3M. 2003 Platinum Award winner for the Teamwork and Collaboration category.

Direct Energy, Toronto, ON

Senior Manager A&E, Agent Compensation Operations

Managed and lead a team of 3 Managers responsible for the overall operational functions to support the Ontario, Texas and Emerging Markets for both the gas and electricity commodities.

Accomplishments:

- Commencing with a core team of 25 employees, recruited, hired and directed training development programs for 44 employees to support the opening of the Texas and Ontario electricity markets and supported the opening of the Michigan and Georgia markets.
- Eliminated the "imaging" of enrolment cancellations via EIS, resulting in an annualized savings of 60K.
- Implementation of the "Reject Analysis" report for the gas commodities, resulting in saved contracts for an increase of 10% per data import 3,840 contracts annually.
- > Development of the 2003/2004 forecast by Market entity, design and implementation of the initial Operational scorecard.

Axxent Corporation, Toronto, ON Senior Manager Operations – Service Provisioning

Involved challenge to transition Axxent Corporation, from a Resale Service Provider to a Local Access Service Provider. In conjunction with the transition, proposed and secured alignment for the reorganized structure including the establishment of new job functions within the service provisioning team.

Accomplishments:

- Commencing with a core team of 6 employees, recruited, hired and directed training development programs for a team of 54 employees.
- > Processed enhancements which reduced the provisioning cycle time from a mean of 35 business days to 20 business days.
- Maintained a team absenteeism rate of 1.2% and 0.5% churn rate.
- Prepared monthly operations reviews to Senior Management, using trend analysis to track process improvements and Service Level Agreements.
- ILEC liaison (Bell Canada and Telus) for regulatory issues, forecasts and monthly process results. Conducted monthly sessions with ILEC's to action and resolve issues.
- Process represented Operations for Wholesale Market and NPI implementations, accountabilities included issuance of Operational Impacts, definition of business requirements, project documentation, user training and timely implementation.

2001 - 2003

1999 – 2001

Bell Canada, Toronto ON

Operational Regulatory Manager	1997 - 1999
Action New Bell – Operational Business Analyst	1998 – 1999
Project Leader – Business Transformation	1994 – 1998
Business Analyst – Essential Records Mechanization	1986 - 1993
Manager Service Provisioning	1982 - 1986
Service Provisioner	1977 – 1982

Professional Development:

Rhummler Brache – Process Improvement 7 Habits for Highly Effective People – Steven Covey Business Requirements Analysis Creativity for Leaders IPMP Project Management, WBS Estimating Process Mapping and Documentation Effective Reports & Proposals Managing the Human Side of Change

Education:

MEARIE Masters Certificate in Energy Sector Leadership Midland Secondary School, Midland, ON.

Computer Skills:

Proficiency in Microsoft Office Knowledge of MS Project and Access Michael Davison, C.E.T. 33 Dovercliffe Drive Guelph, Ontario N1G 2V3 (519) 824-7474

Experience:

March 2017 – Present:

Engineering Manager, InnPower Corporation

Responsible of managing engineering, operations, SCADA and metering departments for overhead and underground transmission and distribution systems of all utility projects. Supervisory direction of eight engineering and six operations staff as well as multiple contractors for tendered projects. Also the implementation of system growth planning, project management, outage management, SCADA automation systems, design oversight, and oversight of company approved policies, procedures and specifications. Development of conceptual and detailed budgets for the maintenance and capital project planning. Responsible to ensure jobs completed as designed and to OEB, ESA, CSA, IESO technical requirements. Liaison with project joint use utilities to ensure work completion to scheduled timelines and budgetary requirements assuring customer safety and servicing.

December 2011 – February 2017: Engineering Manager, Midland Power Utility Corporation

As the inaugural engineering manager, responsible for all utility projects from the design to construction. Supervisory oversight of eight engineering and operation staff, design to construction, of capital and maintenance for overhead and underground distribution systems. Preparation and implementation of policies, procedures, and workflow guidelines as well as company approved standards and specifications. Creation of software automation of SCADA, locate repository, GIS mapping, asset management, and outage management system. Budgetary and capital project planning for construction including estimate of cost, design, pole framing, and material requirements of all projects. Solely responsible to ensure jobs completed as designed and to OEB, ESA, CSA, IESO technical requirements. Also company liaison with project joint use utilities to ensure work completion to scheduled timelines, budgetary requirements and assure customer satisfaction is consistently achieved.

October 2010 – December 2011: Senior Engineering Technologist, Orillia Power Corporation

Supervised junior staff insuring work reviewed, inspected, verified and coordinated to industry and company policies, procedures, specifications and standards. Managed and implemented OPA FIT applications, work order preparation of overhead and underground distribution designs to include material, estimates of cost, construction details, and drawings. Ensured jobs were completed as designed and to OEB, ESA, CSA, and other utility guidelines. Also to update drawings and system records using AutoCAD Map 3D Enterprise. As a Utility Standards Forum (USF) committee member, reviewed and developed utility-approved design standards. Safety Committee team member, educating local elementary students on electrical safety.

January 1988 – September 2010:	Engineering Distribution Design Technician
	Engineering Standards Technician
	Maintenance Electrician – General (Stations)

Guelph Hydro Electric Systems Inc.

Progressed from station maintenance electrician of general stations to engineering standards technician to engineering distribution design technician. Electrical and mechanical maintenance of transformers, street lights, capacitors, substation and service centre facilities. Assisted in the metering and customer service departments in daily and on-call duty for residential, commercial and water heater service calls. Prepared standards and specifications for materials for construction of the electrical distribution and street lighting systems. Support functions of supervisory control and data acquisition (SCADA), load management and

remote interrogation metering systems, and on-call emergency cable locating. Responsible for designs, bills of materials, estimates of cost, construction details, and preparing drawings related to the overhead and underground distribution and street lighting systems. Coordinated contract, other utilities and joint use parties to verify completed to company drawings, specifications, and standards. Inspect and review work projects, update records, and ensure jobs were completed as designed and to all utility guidelines. Also give direction in updating drawings and records using GIS ESRI Mapping System and utility-approved standards.

Educational Background:

C.E.T. Engineering Technologist Association Member Certification (OACETT) - March 1991

Electric Power Meters Certification (IHSA) - June 2017 Utility Work Protection Code Certification (IHSA) - May 2017 Standard First Aid, CPR and AED Training (RED CROSS) - March 2017 WHMIS Training - October 2016 Electrical Utility Safety Rules Book Update Training (IHSA) - April 2016 Working at Heights-Fundamentals of Fall Prevention (IHSA) - October 2015 Distribution System Protection Sizing & Coordination (ESSEX ENERGY) - August 2014 Supervisor Health and Safety Awareness (MOL) - May 2014 Interpersonal Skills for Managers (CMC) - October 2012 Arc Flash Z462-12 (ESA) - September 2012 AutoCAD Map 3D Certification (CANSEL) - November 2011 Distribution Generation for Linepersons (St. Lawrence College) - February 2008 Pipe and Cable Locating (EUSA) - March 2006 CDM Energy Management Training (VIP Energy) - April 2005 Overhead Conductor Tensions, Sags and Guying of Poles(S&C) - October 2004 Street Lighting Design Workshop (MEA) - September 1996 Confined Space Entry (EUSA) - June 1996 Supervisory Studies Certificate (Conestoga College) - January 1994 Human Resources Administration (University of Guelph) - May 1993 Radial Boom Derrick Operator Certification (EUSA) - June 1991 Steward Training Course (IBEW) - May 1991 Substation Maintenance Electrician (AMEU) - June 1990 Electrical Engineering Technology Diploma (Control Systems) – December 1987 Class "DM" with "Z" Endorsement Drivers Licence - September 1987

Volunteer Opportunities

- Board Member and Leadership Elder at First Baptist Church Orillia
- Director on Executive Board of OACETT
- · Coordinator of men's leadership/outreach team assisting single mothers and the general community
- Coach teaching baseball skills, teamwork, and good sportsmanship
- Treasurer of school council
- Blood donor (95 donations)

BORDEN LADNER GERVIAS BRUCE BACON

PROFILE

- A Senior Consultant with over thirty six years of experience in the electricity and natural gas industries evaluating the short and long term financial and pricing impacts of business alternatives.
- Proven record of success in managing the development of cost of service and cost allocation models, delivering presentations to senior management, preparing submission to the Ontario Energy Board (OEB), National Energy Board (NEB) and the Régie de l'énergie (Régie) as well as testifying before the NEB, the OEB and the Régie.
- Highly skilled in training, motivating and influencing staff as well as setting priorities and coaching teams.
- A strong team player, an excellent analyst and an effective communicator with strong interpersonal skills.

Experience

BORDEN LADNER GERVAIS: SENIOR UTILITY RATE CONSULTANT November 2007 - Present

- Assisted 45 electric local distribution companies ("LDCs") in the preparation of over 100 rebased/cost of service rate applications since 2008 which includes a number of applications under the new Renewed Regulatory Framework for Electricity ("RRFE").
- Assisted one natural gas distribution company in Ontario in the preparation of their cost of service rate applications for 2017 rates.
- Provide ongoing strategic regulatory advice to numerous LDCs within Ontario.

ELENCHUS RESEARCH ASSOCIATES: SENIOR CONSULTANT May 2003 – November 2007

- Assisted 25 LDCs in completing their cost allocation studies.
- Consultant to the OEB in preparing the OEB paper and cost allocation model used by LDCs in their recent cost allocation studies.
- Member of OEB Cost Allocation Working Group.
- Assisted in the preparation of numerous Distribution Rate Applications for over 15 LDCs
- Testified before the OEB supporting LDC Distribution Rate Applications.
- Member of four working groups for OEB 2006 Distribution Rate process.

ECONALYSIS CONSULTING SERVICES: SENIOR CONSULTANT 1999 to 2003

- Conducted power pricing studies for generation clients in Ontario.
- Supported the preparation of unbundled Distribution Rate Applications and Retail Transmission Rate Applications for over 30 electric local distribution companies within Ontario.
- Conducted distribution cost allocation studies for Hydro One, Oakville Hydro and St. Catharines Hydro.
- Conducted a cost efficiency study for Festival Hydro, St Thomas Energy and Woodstock Hydro Services.
- Participated on the OEB PBR Distribution Rate Task Force; the OEB Retail Settlement Code Task Force and the OEB Distribution System Code Task Force
- Testified at the OEB Generic Hearing on changes to the implementation of market-based rate of return.
- Prepared evidence and testified at the Régie on transmission rate design for Hydro Quebec.

ONTARIO HYDRO: MANAGER, MARKETING SERVICES, CONSUMER & SMALL BUSINESS MARKETS, OHSC

1996 to1998

- As a member of the Power Purchasing project, developed working knowledge of power trading and risk management techniques in order to risk manage the purchase of power from the power pool.
- Prepared various position papers for the Market Design Committee (MDC) to address retail market design issues and supported the OHSC representative at the MDC.
- Responsible for the calculation of Rural Rate Assistance.

ONTARIO HYDRO: SENIOR ADVISOR - STRATEGIC MARKETING, ONTARIO HYDRO RETAIL

1995 - 1996

- Directed a province wide team to develop a service charge and energy rate structure for 960,000 Ontario Hydro Retail customers.
- Assisted in the review of cost efficiency gains by rationalizing the operations of over 48 individual local Rural Area office structures.
- Responsible for the calculation of Rural Rate Assistance

ONTARIO HYDRO: STRATEGIC ADVISOR - RETAIL RATES AND FORECASTS, RETAIL SYSTEM

1990 - 1995

- Responsible for setting and gaining approval of retail rates for 960,000 residential and small business customers.
- Provided analytical support to the 1994 Joint Study into Retail Electricity Service in Ontario.
- Responsible for the calculation of Rural Rate Assistance

TRANSCANADA PIPELINES LTD: SUPERVISOR, PIPELINE COST ANALYSIS 1988 - 1990

- Directed the preparation of long-term financial/rate impact studies submitted to the NEB for a \$1.2 billion and a \$2.5 billion pipeline expansion program.
- Testified before the NEB supporting the impact studies.
- Gained extensive knowledge of the supply and transmission business in the regulated natural gas industry.

TRANSCANADA PIPELINES LTD: ASSISTANT SUPERVISOR, PIPELINE COST ANALYSIS 1986 - 1988

• Supervised the system development of TransCanada's financial and rate forecasting model.

EDUCATION

Marketing Management Program

Ivey Business School, London, 1997

B.Sc. Mathematics

York University, Toronto, 1979

CONTACT

Address

12 Peel Court Markham. Ont L3P 5Y5

Phone

(416) 825-4144

E-mail

bbacon@blg.com



Daryn Thompson, B.A.Sc., P.Eng. Vice President, Utility Consulting

Telephone: (905)-232-7300 ext 212 email: Daryn.Thompson@metsco.ca

Summary of Qualifications	Daryn Thompson has more than 29 years' experience in consulting and utility engineering with experience in transmission and distribution system planning, smart grid, asset management and market rules. Currently as Vice President, Utility Consulting at METSCO ENERGY
	SOLUTIONS INC, Daryn is responsible for the preparation of Distribution System plans as per Chapter 5 of the Filing Requirements for Electricity Distribution Rate Applications, Asset Management and Asset Condition Assessment and Smart Grid planning.
	In previous positions, Daryn has been responsible for Smart Grid implementation as Director of PSS at S&C Electric Canada, and for Distribution System Planning both in a Consulting role and Utility Engineer.
Experience	 Vice President Utility Consulting, Metsco Inc. – Since July 2014 Distribution Planning, Smart Grid and Asset Management and DSPs.: Ministry of Energy Smart Grid Fund, – Technical advisor, 2017 Utilities Kingston Performance Metrics, 2017 Lakeland Power, Distribution System Plan, 2017 Essex Powerlines, Distribution System Plan, 2017 Welland Hydro, Distribution System Plan, 2016 Northern Wires Inc (Cochrane), Distribution System Plan, 2016 Peterborough Hydro, Distribution System Plan, 2016 InnPower ACA and Distribution System Plan, 2016 Entegrus Powerlines Inc., Distribution System Plan, 2014-15 Hydro Ottawa, Asset Health Index Validation, 2014-15 Guelph Hydro, Distribution System Plan and ACA, 2014-15 and 2016 North Bay Hydro, Distribution System Plan and ACA, 2014
	Director Technical Services, S&C Electric Toronto – 2009 - 2014: Engineering Projects, Automated Systems Projects, Field Services.
	Regional Manager Eastern Canada, Hatch T&D(Acres Intl) 2006-2009 Distribution Planning, and Asset Management: Hydro One, Hydro Quebec, NYPA
	Distribution Engineer, Consultant, -Various – 1998 - 2005 Various Projects, IESO Market Rules, Great Lakes Power 10-year System Plan, Hydro One Lines Engineering, New Brunswick Power, Market Opening, West Kootenay Power 10-year System Plan
	Distribution Engineer, Toronto Hydro, (York Hydro) 1989-1998
Education	B.A.Sc 1988 University of Toronto Licensed Professional Engineer, Ontario, Canada
Selected Publications	CEATI – LCMSEA – HEALTH AND RISK INDEX TOOL CEATI - LCMSEA – STATION EQUIPMENT OUTAGE COSTS CEATI - LCMSEA – SUBSTATION RESILIENCY ASSESSMENT