

Resume

William K Marshall, P.Eng

Born May 16, 1946, Saint John, New Brunswick

Positions

President, WKM Energy Consultants Inc since July 1, 2008
President and CEO, New Brunswick System Operator, Oct 2004 – June 2008
Director - Strategic Planning, NB Power Corporation, 1996-2004
Manager - Power Supply Planning, NB Power Corporation, 1991-1996
Senior Engineer – Power Supply Planning, NB Power Corporation, 1983-1991

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Education

BSc (Electrical Engineering) from University of New Brunswick in 1968
BEd (High School & Post-Secondary) from Mount Allison University in 1971
MScE (Power Systems) from University of New Brunswick in 1972
Several courses in Accounting and Finance, UNB, 1978-1983

Work Experience

Eight (8) years as a professional educator at the high school, community college and university levels.

Five (5) years as a private engineering consultant with work related to energy policy development, computer systems, educational services and power systems planning, tariffs and market issues.

Twenty eight (28) years as a professional engineer in the electric utility industry with NB Power Corporation (24 yrs) and with New Brunswick System Operator (4 yrs) with responsibilities involving:

- power system analysis, planning and development
- integrated resource planning and procurement,
- electricity market rules and operations,
- environmental strategies and compliance,
- reliability standards development, enforcement and compliance,
- energy policy development,
- electric industry restructuring and deregulation,
- corporate business unit restructuring and management,
- cost of service and industrial interruptible rate design,
- transmission tariffs and ancillary services rate design,
- regulatory approvals of tariffs, rates and policies,
- renewable energy procurement and wind power integration,
- financial forecasting and budgeting,
- end use load control and “smart grid” evolution.

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Related Experience

Memberships and participation in various committees, work groups and task forces at the company, provincial, regional, national and international levels as follows:

- Province of New Brunswick
 - Energy Policy Committee
 - Electricity Market Design Committee
- East Coast Regional Transmission Organization Development Group
- Government of Canada
 - Forecast Working Group of Climate Change Task Group
 - Inter Provincial Electricity Trade Working Group
- Northeast Power Coordinating Council (NPCC)
 - Load and Capacity Task Force
 - Capacity Planning Work Group 5 – Interconnection Reliability
 - Reliability Coordination Committee
- Maritime Provinces Utility Planning Committee and the Atlantic Electricity Working Group
- Canadian Electricity Association (CEA)
 - Operations and Reliability Section
 - Climate Change Steering Committee
 - Fossil Utilities Climate Change Work Group
- CIDA sponsored Bhutan Project administered through University of New Brunswick
- CIGRE Task Force 38-03-10 on Composite Reliability (Co chairman)

Participation as a witness before hearings of various administrative boards and government committees including

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- Crown Corporation Committee of the NB Legislature
- Select Committee on Energy of the NB Legislature
- Select Committee on Wood Supply of the NB Legislature
- Board of Commissioners of Public Utilities of New Brunswick (PUB)
- Energy and Utilities Board of New Brunswick (EUB)
- National Energy Board of Canada
- Régie de l'énergie of Québec
- Maine Public Utilities Commission

Writing and presentation of various technical papers, courses and seminars before various groups including

- Institute of Electrical and Electronic Engineers (IEEE)
- Canadian Electricity Association (CEA)
- Canadian Nuclear Association (CAN)
- Canadian Pulp and Paper Institute (CPPI)
- Atlantic Power Summit
- Atlantic Energy Conference
- Québec Electricity Forum

- Ontario Power Symposium
- Northeast Power Coordinating Council (NPCC)
- Canadian Association - Members of Public Utility Tribunals (CAMPUT)
- Association of Professional Engineers of New Brunswick (APENB)
- Committee internationale de grande reseau electric (CIGRE)
- Point Lepreau Operator Training Program
- ClickSoftware Global Utility Summit
- International T&D Summit
- [St Thomas University Public Forum on NB Power/Hydro-Quebec Deal](#)
- [University of New Brunswick Public Forum on Future of NB Power](#)
- [Atlantic Renewable Energy Conference](#)
- [Canadian Wind Energy Association Atlantic Caucus Conference](#)

Experience specifically related to TransEnergie's Transmission Tariff application

While at NB Power:

- Integrated Resource Planning Studies for NB Power in 1991, 1995 and 2001 that included distribution, transmission and end use demand side management (DSM) resources as well as conventional generation supply resources [that included distribution, transmission and end use demand side management \(DSM\) resources as well as conventional generation supply resources](#)
- Economic evaluations of major transmission projects including the NB-HQ Madawaska HVDC interconnection, the NB-NE second 345 kV interconnection and various projects internal to NB
- Participation on NB policy committees since 1996 regarding utility and market restructuring, open non discriminatory transmission access and reciprocity requirements of FERC Order 888 that lead to NB White Paper Energy Policy (2001), NB Open Access Transmission Tariff (2003), NB Electricity Act (2003) and NB Market Rules (2004)
- Interventions regarding HQ TransEnergie's OATT Application to the Régie de l'énergie of Québec (2001)
- [Lead witness before PUB for approval of NB OATT \(2002-2003\)](#)

While with New Brunswick System Operator (2004-2008):

- Administration of the NB Open Access Transmission Tariff (NB OATT)
- Direction of wind power integration studies and regional transmission studies
- Negotiation of Coordination Agreements with NSPI and ISO-NE, etc
- Implementation of NBSO as Reliability Coordinator of the Maritimes Area
- Administration, approval and compliance of NERC standards and NPCC criteria
- Proposed modifications to the NB OATT regarding FERC Order 890 and Market Advisory Committee recommendations
- [Development of transmission planning standards, consultations and procedures](#)
- [Initiation of "Smart grid" project for water heater control with UNB and SJEnergy](#)

As an independent consultant (2008-2009):

- Witness before EUB for amendments to NB OATT
- Completion of a discussion paper for NB Energy in 2008 outlining a sustainable energy development strategy for the Atlantic region involving transmission expansion and new hydro, nuclear and large scale wind generation.

- Extensive stakeholder consultation for NB Energy regarding the NB Electricity market and the structure of NB Power
- Report to a western Canadian utility regarding the transmission and operational challenges of integrating a large nuclear station into the western power grid
- Assist Ontario Energy Board in development of filing guidelines for Transmission and Distribution planning
- Assist the NB government in the analysis, negotiation and implementation of the proposed sale of NB Power to Hydro Quebec
- Advisory consultant to the Government of Canada (through Atlantic Canada Opportunities Agency and Natural Resources Canada) for power systems studies under the Atlantic Energy Gateway project.
- Negotiating consultant to assist the Prince Edward Island Energy Corporation procure long term power supply offers from different regional suppliers