

RAPPORT D'EXPERT SUR LE COÛT DE LA DETTE
KATHLEEN MCSHANE

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**TESTIMONY OF
KATHLEEN C. McSHANE
ON
EMBEDDED COST OF DEBT
ON BEHALF OF HYDRO-QUÉBEC**

Q. Please state your name and business address.

A. My name is Kathleen C. McShane and my business address is 4550 Montgomery Avenue, Suite 350N, Bethesda, Maryland 20814.

Q. What is your occupation?

A. I am a Senior Vice President of Foster Associates, Inc., an economic consulting firm.

Q. What are your educational background and experience?

A. I hold a Masters in Business Administration with a concentration in Finance from the University of Florida (1980) and have been a CFA charterholder since 1989. My professional experience is detailed in Appendix A to this Exhibit.

Q. What is the purpose of your testimony?

A. I have been requested by Hydro-Québec to evaluate the Company's proposal to establish the cost of debt for regulatory purposes.

Q. In D-2003-93, for Hydro-Québec's electricity distribution operations, the Régie

1 concluded the following:

2

3 “Toutefois, dans la présente section qui traite de la structure et du coût du
4 capital, la Régie a recours au concept d’isolement. Il en découle une
5 structure du capital présumée pour le Distributeur, composée d’un avoir
6 propre présumé et d’une dette présumée auxquels correspondent, selon la
7 Régie, un coût présumé de la dette. En principée, le coût de la dette du
8 Distributeur devrait être calculé indépendamment de celui d’Hydro-
9 Québec intégrée, tout comme le coût de l’avoir propre est calculé
10 distinctement.”

11

12 What are your comments?

13

14 A. Regulatory convention and precedent provide regulated utilities the opportunity to
15 recover their embedded cost of debt. The embedded cost of debt represents costs
16 that were incurred in the past under the regulatory model that existed at the time.
17 Unless disallowed by the regulator, the costs are presumed to have been prudently
18 incurred.

19

20 The regulatory compact then provides the utility, in exchange for the granting of
21 an exclusive franchise, a reasonable opportunity to recover those prudently
22 incurred costs and a reasonable rate of return. The restructuring of the electric
23 utility industry in the Province does not rescind the opportunity to recover the
24 costs incurred in the past.

25

26 Any decision that the Régie takes regarding the recovery of debt costs should
27 recognize that restructuring – which is the catalyst that has led to the
28 “unbundling” of cost of capital – does not nullify the regulatory compact. The
29 regulatory compact should continue to be respected.

30

31 Q. Has the regulatory compact been recognized in other jurisdictions which have
32 restructured their utility industries?

33

1 A. Yes. Virtually all jurisdictions that have instituted regulatory reform have
2 recognized that utilities should be permitted to recover stranded costs, where
3 stranded costs may be defined as unrecoverable in a competitive market. These
4 costs, now stranded due to transition to a more competitive market, were
5 prudently incurred pursuant to a regulatory model. Legislation and regulations
6 accompanying restructuring have recognized the validity of the regulatory
7 compact.

8

9 Q. Can you provide some examples?

10

11 A. Yes. Illustrations in Canada include:

12

13 Alberta

14 In Alberta, the restructuring of the electric utility industry was designed to
15 avoid stranded costs. Power Purchase Arrangements for existing utility-
16 owned generation, based on cost of service principles provided for
17 recovery of, and a return on, capital committed by the utilities, including
18 the debt issued on an integrated basis.

19

20 Ontario

21 The restructuring plan in Ontario provides for recovery of the stranded
22 debt of the “pre-restructured” Ontario Hydro through various dedicated
23 revenue streams, including deemed income taxes imputed to all sectors of
24 the industry, full property tax assessments, and a competitive transition
25 charge.

26

27 New Brunswick

28 The New Brunswick Energy Policy issued in May 2001 instituted a “user
29 pay” approach to stranded costs (as contrasted with a loss of revenues to
30 the Crown utility).

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Illustrations in the U.S. include:

The FERC

In the U.S., the FERC, in its order establishing open access to transmission (Order No. 888, dated July 1996) concluded that utilities should have the opportunity to recover legitimate, prudent and verifiable costs that may be stranded during transition to more competition. Moreover, FERC stated that failure to deal with the stranded cost problem could destabilize the financial integrity of the industry.

Massachusetts

In Massachusetts the Department of Public Utilities stated, “[T]he Department notes that the honoring of existing commitments is a critical foundation for the future electric industry.” (RE: Electric Industry, D.P.U. 95-30, Massachusetts Department of Public Utilities Appendix B, 163 PUR 4th (1995))

Rhode Island

In Rhode Island, the principles of restructuring “provide for the honoring of existing utility commitments”. (RE: Electric Industry Restructuring (Docket No. 2320, Order No. 14797) Rhode Island Public Utilities Commission, 164 PUR 4th 441 (1995))

- Q. What is the relevance of these decisions on “stranded costs” to the cost of debt issue before the Régie?

- A. The issue is one of fairness to the shareholder. Hydro-Québec historically operated as a bundled integrated utility. Its financing has been carried out on an integrated basis, consistent with the structure of the corporation, and found to be

1 prudent. It would be unfair to the shareholder to now impose a deemed cost of
2 debt on one or more of the “stand-alone” regulated functions of Hydro-Québec
3 that would impair the ability to recover the historically incurred embedded cost of
4 debt.

5

6 Q. Are you aware of any regulatory jurisdictions that have deemed a “stand-alone”
7 cost of debt for a utility?

8

9 A. There have been very few instances of deeming a cost of debt.

10

11 A cost of debt was deemed for the municipal electricity distribution utilities
12 (MEUs) in Ontario when the industry was restructured, and regulation of the
13 MEUs on a rate base/rate of return basis commenced. However, the reason for
14 doing so related to the fact that many of the MEUs had little or no debt. For
15 ratemaking purposes, a deemed utility capital structure was required that would
16 minimize the cost of capital to ratepayers. The imputation of a capital structure
17 where little or no debt exists requires deeming a debt cost for notional debt.
18 However, if an MEU had outstanding debt, it could apply its embedded cost to the
19 portion of the deemed debt ratio the actual debt represented. (If the MEU raises
20 actual debt to bring its deemed and actual capital structures in line, the actual cost
21 of the debt issued would replace the deemed cost.) In the case of Hydro-Québec,
22 it has actual debt outstanding and, thus in contrast to the MEUs, requires no
23 deeming of a debt cost.

24

25 A second case with similar origins was that of Alberta Natural Gas, for which the
26 National Energy Board had imputed a long-term cost of debt to its B.C. pipeline
27 operations, using an estimate of the current cost. The imputation of a debt cost
28 was originally required because, as the pipeline’s rate base declined, and its actual
29 debt was redeemed, its actual equity ratio increased to a level inconsistent with
30 minimizing the cost of capital. Consequently, the National Energy Board imputed

1 a deemed capital structure and deemed cost of long-term debt for that portion of
2 the deemed equity ratio not represented by actual long-term debt.¹ The use of the
3 current cost of debt for the unfunded debt portion of the deemed capital structure
4 was intended to reflect the regulatory philosophy that a utility should be able to
5 freely recapitalize itself, incurring neither a gain nor a loss on the issue of new
6 debt, so as to permit the utility to achieve the allowed rate of return on equity.

7

8 In a third case, the Alberta Public Utilities Board imputed a lower cost of debt to
9 certain debt issues allocated by the more diversified parent company to the
10 regulated pipeline, Alberta Gas Transmission (now Nova Gas Transmission). The
11 Board did so because it judged that the pipeline could have raised debt on a
12 “stand-alone” basis at an A rating, rather than at the BBB rating of its diversified
13 parent, Nova Corporation (Decisions E92086 and E93060). This is not relevant to
14 Hydro-Québec’s circumstances. As discussed below, it is unlikely that either
15 Hydro-Québec Distribution or TransÉnergie could access debt on a “stand-alone”
16 basis at the cost rates available to Hydro-Québec.

17

18 Q. Are there cases, to your knowledge, where a regulator has deemed a “stand-alone”
19 embedded cost of debt to the various functions of an unbundled utility in place of
20 the integrated debt cost?

21

22 A. No. For example, the Alberta Energy and Utilities Board has unbundled the
23 major functions (generation, transmission and distribution) of the electric utilities
24 under its jurisdiction and has determined for each an appropriate “stand-alone”
25 capital structure and return on equity. It has not, however, made any attempt to
26 determine a “stand-alone” embedded cost of debt for each function. In fact, no
27 party has ever requested that the Board attempt to retroactively redetermine what
28 cost of debt each function might have incurred had it historically operated on a

¹ When ANG expanded in the early 1990s, the NEB determined that the parent company – which itself was financed in large part by short-term debt – should allocate a portion of new long-term debt issues to the pipeline operations so as to fund the deemed debt component, or face having the parent’s cost of debt used for regulatory purposes.

1 “stand-alone” basis.

2

3 Q. It was suggested in the Hydro-Québec distribution proceeding that the integrated
4 cost of debt should be replaced with a deemed cost of debt because the
5 distribution operations could have accessed the debt markets at a lower cost on a
6 “stand-alone” basis. What is your response to this suggestion?

7

8 A. Hydro-Québec is able to access the long-term debt markets at the Province’s cost
9 plus a guarantee fee of 50 basis points. The Province has debt ratings of A+ by
10 S&P and A by DBRS. At the end of August 2004, the long-term (30-year) debt of
11 Hydro-Québec was trading at a spread of approximately 50 basis points over long
12 Canadas. Adding the 0.5% guarantee fee, the effective spread is approximately
13 105 basis points. By comparison, the indicated spread for a long-term (30-year)
14 issue of the highest rated investor-owned utility (CU Inc., rated A and A(high) by
15 S&P and DBRS respectively) was 95 basis points.² Thus, including the 0.5%
16 guarantee fee, both transmission and distribution customers are paying a cost of
17 debt that is similar to that of an investor-owned utility with a strong A rating.
18 However, it is highly unlikely that either Hydro-Québec Distribution or
19 TransÉnergie, as “stand-alone” utilities, would be rated a strong A. At 65% and
20 70% debt ratios respectively, Hydro-Québec Distribution and TransÉnergie would
21 most likely be rated in the BBB+/BBB range by the Canadian debt rating
22 agencies.

23

24 The indicated spreads at the end of August 2004 for a new long-term (30-year)
25 debt issue of Canadian utilities with one Canadian agency debt rating in the BBB
26 category were as follows:

27

28

| | RATINGS | SPREAD |
|--|----------------|---------------|
|--|----------------|---------------|

² RBC Capital Markets, *Power & Pipelines Weekly Review*, August 26, 2004.

| | DBRS | S&P | (basis points) |
|-------------------|-------------|----------------|-----------------------|
| EPCOR Utilities | A(low) | BBB- | 147 |
| Nova Scotia Power | A (low) | BBB+ | 142 |
| Terasen Gas | A | BBB | 138 |
| Union Gas | A | BBB | 123 |
| Westcoast Energy | A(low) | BBB | 142 |

1

2

Source: RBC Capital Markets, *Power & Pipelines Weekly Review*, August
26, 2004.

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These spreads confirm that the cost of new debt to a stand-alone BBB-rated utility would be significantly higher than the integrated Hydro-Québec's cost (inclusive of the guarantee fee) that is borne by the transmission and distribution customers.

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Consequently, on a stand-alone basis, both Hydro-Québec Distribution's and TransÉnergie's long-term debt cost would be materially higher than what is being charged customers by virtue of Hydro-Québec's integrated financing. Thus, the integrated financing undertaken by Hydro-Québec confers a benefit on transmission and distribution customers that would be lost if the concept of a deemed stand-alone debt cost were to be implemented on a go-forward basis.

10

11

12

Q. Please briefly state your conclusions.

13

14

A. Hydro-Québec is proposing a methodology for setting the cost of debt that is intended to balance (1) the preservation of the benefits to the ratepayer of integrated financing; (2) the maintenance of the ability to recover prudently incurred "debt costs"; and (3) the protection of ratepayers from foreign risks on previously issued U.S. dollar denominated debt.

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It would be unfair and contrary to regulatory practice for the Régie to attempt to

1 rewrite history by creating either stand-alone embedded costs of debt or by
2 imputing a notional cost of debt which could deprive the utility of the ability to
3 recover its prudently incurred costs.

4

5 Further, the imputation of a notional stand-alone debt cost to Hydro-Québec
6 Distribution and TransÉnergie would eliminate the cost benefits of integrated debt
7 financing that are being conferred on ratepayers.

1 Canadian Ministry of Energy, Ms. McShane analyzed Federal regulation of U.S.
2 pipelines, including trends in rate design and rate structures. Ms. McShane has also co-
3 managed market demand studies, focusing on demand for Canadian gas in U.S. markets.
4 Other studies performed by Ms. McShane include a comparison of municipal and
5 privately owned gas utilities, an analysis of the appropriate capitalization and financing
6 for a new gas pipeline, risk/return analyses of proposed water and gas distribution
7 companies and an independent power project, pros and cons of performance-based
8 regulation, and a study on pricing of a competitive product for the U.S. Postal Service.
9 She has also conducted seminars on cost of capital for regulated utilities, with focus on
10 the Canadian regulatory arena.

11

12 **Publications, Papers and Presentations**

13

14 ■ “Utility Cost of Capital Canada vs. U.S.”, presented at the CAMPUT Conference,
15 May 2003.

16

17 ■ “The Effects of Unbundling on a Utility’s Risk Profile and Rate of Return”, (co-
18 authored with Owen Edmondson, Vice President of ATCO Electric), presented at
19 the Unbundling Rates Conference, New Orleans, Louisiana sponsored by
20 Infocast, January 2000.

21

22 ■ Atlanta Gas Light’s Unbundling Proposal: More Unbundling Required?”
23 presented at the 24th Annual Rate Symposium, Kansas City, Missouri, sponsored
24 by several Commissions and Universities, April 1998.

25

26 ■ “Incentive Regulation: An Alternative to Assessing LDC Performance”,
27 (co-authored with Dr. William G. Foster), presented at the Natural Gas
28 Conference, Chicago, Illinois sponsored by the Center for Regulatory Studies,
29 May 1993.

30

31 ■ “Alternative Regulatory Incentive Mechanisms”, (co-authored with Stephen F.
32 Sherwin), prepared for the National Energy Board, Incentive Regulation
33 Workshop, October 1992.

34

35 ■ “Market-Oriented Sales Rates and Transportation Services of U.S. Natural Gas
36 Distribution Companies”, (co-authored with Dr. William G. Foster), published by
37 the IAEE in *Papers and Proceedings of the Eighth Annual North American
38 Conference*, May 1987.

39

- 1 ■ “Canadian Gas Exports: Impact of Competitive Pricing on Demand”, (co-
2 authored with Dr. William G. Foster), presented to A.G.A.’s Gas Price Elasticity
3 Seminar, February 1986.
4
- 5 ■ “Marketing Canadian Natural Gas in the U.S.”, (co-authored with Dr. William G.
6 Foster), published by the IAEE in *Proceedings: Fifth Annual North American*
7 *Meeting*, 1983.
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Expert Testimony/Opinions

on

Rate of Return & Capital Structure

Alberta Natural Gas
1994
Alberta Power/ATCO Electric 1989, 1991, 1993, 1995, 1998, 1999, 2000,
2003
AltaGas Utilities
2000
Ameren (CIPS and & Union Electric) 2000 (3 cases), 2002 (3 cases)
2003
ATCO Gas 2000,
2003
ATCO Pipelines 2000,
2003
BC Gas 1992,
1994
Bell Canada 1987,
1993
Benchmark Utility Cost of Equity (British Columbia)
1999
Canadian Western Natural Gas 1989, 1998,
1999
Centra Gas B.C. 1992, 1995, 1996,
2002
Centra Gas Ontario 1990, 1991, 1993, 1994,
1996

1 Dow Pool A Joint Venture
 2 1992
 3 Edmonton Water/EPCOR Water Services 1994,
 4 2000
 5 Enbridge Gas Distribution 1988, 1989, 1991-1997, 2001,
 6 2002
 7 Enbridge Gas New Brunswick
 8 2000
 9 Gas Company of Hawaii
 10 2000
 11 Gaz Metropolitan
 12 1988
 13 Gazifère 1993, 1994, 1995, 1996, 1997,
 14 1998
 15 Generic ROE Proceeding in Alberta (ATCO Utilities and AltaGas)
 16 2003
 17 Heritage Gas
 18 2002
 19 HydroOne/Ontario Hydro Services Corp. 1999,
 20 2000
 21 Illinois Power
 22 2004
 23 Laclede Gas Company 1998, 1999, 2001,
 24 2002
 25 Maritimes NRG (Nova Scotia) and (New Brunswick)
 26 1999
 27 Multi-Pipeline Cost of Capital Hearing (National Energy Board)
 28 1994
 29 Natural Resource Gas 1994,
 30 1997

| | | |
|----|-----------------------------------|-------------------------------|
| 1 | Newfoundland & Labrador Hydro | 2001, |
| 2 | 2003 | |
| 3 | Newfoundland Power | 1998, |
| 4 | 2002 | |
| 5 | Newfoundland Telephone | |
| 6 | 1992 | |
| 7 | Northwestel, Inc. | |
| 8 | 2000 | |
| 9 | Northwestern Utilities | 1987, |
| 10 | 1990 | |
| 11 | Northwest Territories Power Corp. | 1990, 1992, 1993, 1995, |
| 12 | 2001 | |
| 13 | Nova Scotia Power Inc. | 2001, |
| 14 | 2002 | |
| 15 | Ozark Gas Transmission | |
| 16 | 2000 | |
| 17 | Pacific Northern Gas | 1990, 1991, 1994, 1997, 1999, |
| 18 | 2001 | |
| 19 | Platte Pipeline Co. | |
| 20 | 2002 | |
| 21 | St. Lawrence Gas | 1997, |
| 22 | 2002 | |
| 23 | Southern Union Gas | 1990, 1991, |
| 24 | 1993 | |
| 25 | Stentor | |
| 26 | 1997 | |
| 27 | Tecumseh Gas Storage | 1989, |
| 28 | 1990 | |
| 29 | Telus Québec | |
| 30 | 2001 | |

1 TransCanada PipeLines 1988, 1989, 1991 (2 cases), 1992,
2 1993
3 TransGas and SaskEnergy LDC
4 1995
5 Trans Québec & Maritimes Pipeline
6 1987
7 Union Gas 1988, 1989, 1990, 1992, 1994, 1996, 1998,
8 2001
9 Westcoast Energy 1989, 1990, 1992 (2 cases),
10 1993
11 West Kootenay Power/Utilicorp United Networks (B.C.) 1995, 1999,
12 2001
13 Yukon Electric Co. Ltd./Yukon Energy 1991,
14 1993
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Expert Testimony/Opinions

on

Other Issues

| Client | Issue | Date |
|----------------------------------|---|-------------|
| Heritage Gas | Deferral Accounts | 2004 |
| ATCO Electric | Carrying Costs on Deferral Account | 2001 |
| Newfoundland & Labrador Hydro | Rate Base, Cash Working Capital | 2001 |
| Gazifère Inc. | Cash Working Capital | 2000 |
| Maritime Electric | Subsidies | 2000 |
| Enbridge Consumers Gas | Principles of Cost Allocation | 1998 |
| Enbridge Consumers Gas | Unbundling/Regulatory Compact | 1998 |
| Maritime Electric | Form of Regulation | 1995 |
| Northwest Territories Power | Rate Stabilization Fund | 1995 |
| Canadian Western Natural Gas | Cash Working Capital/ Compounding Effect | 1989 |
| Gaz Metro/ Province of Québec | Cost Allocation/ Incremental vs. Rolled-In Tolling | 1984 |

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