

1 Q. The Cost of Service evidence at Page 16, lines 13 to 14, states:

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3 “ ... utilities have found a way to deal with this , either in the form of seasonal
4 rates or by the use of load management techniques such as water heating
5 control rate.”
6

7 Please provide a list of utilities that provide seasonal rates or water heater
8 control rates to domestic customers. Please indicate the % of customers
9 within those utilities that are on those rates and indicate if the seasonal rate
10 is part of a time of day varying rate.
11
12

13 A. Stone & Webster has conducted an informal survey to obtain information
14 about load response programs available from electric utilities across the
15 Northern United States and Canada. More specifically, the focus was on
16 obtaining information about the types of initiatives being offered to residential
17 customers, especially in controlling winter load, and whether the programs
18 were initiated by the utility or in response to a board or commission mandate.
19 Information relating to the percent of customers within those utilities that are
20 on those rates and whether a seasonal rate was part of a time of day varying
21 rate is not available. The utilities contacted and the types of programs
22 offered are described below.
23

24 Commonwealth Edison Company (Chicago, IL)

25 Residential: Direct load control for air-conditioners. No winter programs
26 offered.

27 Commercial and Industrial: Various demand response programs.
28

1
2 First Energy, Jersey Central Power and Light (NJ)

3 Demand response program targeted at central air conditioning and heat
4 pumps.

5
6 BC Hydro

7 Currently no demand response programs targeting heating or water heating
8 usage.

9 Exploring a pilot program for water heating control units. DSM is offered
10 through their Power Smart Program, but very little to Commercial and
11 Industrial, except to their largest customers with significant demand.

12
13 Vermont Public Service Board

14 The Vermont Board is very active in ensuring that efficiency and load
15 management programs are offered in the state and currently has an open
16 docket to address this. Load response programs offered by Vermont utilities
17 are mostly in place as the result of orders from the Board, issued in either
18 general rate case investigations or special dockets. Burlington Electric
19 Department is one utility that has 2,500 residential customers enrolled in their
20 Power Miser water heater control program.

21
22 First Energy (Ohio Edison)

23 Their most effective load control programs are interruptible rates and real
24 time pricing. There are water heater and space heating control programs in
25 place through riders to tariffs applicable to residential and small commercial
26 customers.

1 Peterborough Utilities (Ontario, Canada)

2 There is a water heater control program in place. No other demand
3 response programs.

4
5 Barrie Hydro (Ontario Canada)

6 No demand response programs are offered.

7
8 Milton Hydro (Ontario Canada)

9 Since deregulation in Ontario, there has been little incentive for distribution
10 companies with a flat volumetric charge to offer demand response programs.
11 However, there is a push from distribution companies to reinstate these
12 programs, but rules have to be modified in order to provide the utility and
13 customers with incentives. Prior to the recent flat rate for energy usage,
14 Milton had been installing interval metering in the new home residential
15 market and customers were purchasing thermal storage control devices in
16 order to participate in a real time pricing program.

17
18 Steffes (for Nova Scotia Power)

19 Steffes is a manufacturer of electric thermal storage equipment that provides
20 units to customers of Nova Scotia Power. Residential customers that have
21 thermal storage equipment obtained from NSPI via Steffes can be served
22 under a three-tiered seasonal rate. There are currently 3,000 homes in the
23 program, which began in 1996. Steffes also offers equipment that places a
24 customer's water heater on the same control as the thermal storage unit.

25
26 Public Utilities Board of New Brunswick (NB Canada)

27 NB Power offers little in the way of demand response programs other than
28 Program 2000, which targets establishing energy efficiency standards for
29 new homes, and a light bulb efficiency program.

1

2

Independent Energy Specialist regarding the Ontario Market

3

Utilities in Ontario are offering water heater control devices to manage load

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profile and reduce cost as part of general conservation initiatives.