

NOVA SCOTIA UTILITY AND REVIEW BOARD

NSPI P-882

IN THE MATTER OF: *The Public Utilities Act*, R.S.N.S. 1989, c.380 as amended

- and -

IN THE MATTER OF: An Application by Nova Scotia Power Incorporated for Approval of Certain Revisions to its Rates, Charges and Regulations

Comments and recommendations regarding
NSPI's Conservation and Energy Efficiency Plan 2006

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1 **1. Introduction**

2 Part of NSPI’s rate increase application presented to the UARB included a \$5 million
3 Demand Side Management (DSM) programme, described in NSPI’s document,
4 *Conservation and Energy Efficiency Plan 2006* (NSPI, 2005c) (hereafter referred to as
5 “the document”). This brief includes a final analysis of NSPI’s proposed DSM
6 programme and offers an alternative approach that comes closer to achieving some of
7 NSPI’s justifications for a DSM programme.

8 **2. NSPI’s DSM Projections**

9 NSPI presented two sets of projections for the potential reduction in electricity usage by
10 2007 associated with their proposed DSM programme:

- 11 • Appendix F (Load Forecast Report), which shows reductions of 43 GWh and 16 GWh
12 by their residential and commercial customers, respectively; industrial customers show
13 no reductions associated with the DSM programme (NSPI, 2005a). The overall
14 reductions are calculated to be 59 GWh (see Table 1).

15 With the DSM programme in place, NSPI projects system growth to increase to
16 11,922 GWh in 2006, an increase of 1.2 percent over 2005. Without the DSM
17 programme in place, the growth in demand is projected to be 1.7 percent.

- 18 • The DSM document projects reductions of 59.97 GWh, 10.51 GWh, and 1.1 GWh for
19 NSPI’s residential, commercial, and industrial customers, respectively. The total
20 demand reduction is 71 GWh.

21 Assuming a non-DSM growth in electrical demand in 2006 to 11,981 GWh (from
22 Table 1), and applying the demand reduction of 71 GWh, there is a system growth of
23 11,910 GWh.

24 Only time will tell if either of these projections for DSM reduction are correct; however,
25 for the purposes of this submission, the data from the DSM document will be used.

26 **3. NSPI’s proposed DSM programme**

27 The document’s Executive Summary lists five reasons justifying NSPI’s proposed DSM

1 programme. This section examines each of these reasons and considers, based upon the
2 material supplied in the document, whether they actually justify the DSM programme.
3 The primary focus of this examination is the residential sector.

4 **3.1. Reduce electricity usage and save our customers money**

5 The annual cost to any residential customer is determined from the monthly customer
6 charge (\$10.83 per month or \$129.96 per year; this is unchanged in the proposed
7 residential rate) plus the total annual electricity usage times the rate per kilowatt-hour:

$$8 \quad \textit{AnnualCost} = \$129.96 + \textit{Usage} \times \textit{Rate}$$

9 Table 2 shows the impact of NSPI's proposed rate increase on residential customers for
10 various levels of electrical usage (demand). Although the proposed residential rate
11 increase is 13 percent (from \$0.0922 per kWh to \$0.1042 per kWh¹), the actual increase
12 in the annual cost is less than 13 percent because of the influence of the customer charge.
13 For example, a customer with a demand of 10,000 kWh would have paid \$1,051.96
14 (annual customer charge of \$129.96 plus \$922.00 in demand charges) under the old
15 residential rate, whereas the cost to the customer would increase by 11.39 percent to
16 \$1,171.82 (annual customer charge of \$129.96 plus demand charges of \$1,041.86).

17 Although one could argue that any increase above the old cost to the customer is not
18 saving the customer money, it is worth considering possible ways in which the customer
19 could save money using NSPI's DSM programme:

- 20 • In the unlikely event that all residential customers reduced their demand equally, the
21 savings per customer would be the projected residential demand decrease of 59.97
22 GWh divided by 400,000 (a rough estimate of NSPI's total residential customers²), or
23 about 150 kWh per customer. This is an annual savings of about \$15.62 per customer.
- 24 • Table 3 shows the average potential savings and the expected number of customers

¹ The residential rate of \$0.1042 per kWh is an estimate based upon NSPI's announcement that they would only be seeking a 13 percent increase rather than the 16 percent increase. NSPI originally requested a residential rate increase of about 18 percent, from \$0.0922 to \$0.1089 per kWh (NSPI, 2005b).

² In NSPI's response to Hughes IR-6, the residential customer count was 420,547. However, in the DSM document, the number of residential customers was 393,076. The choice of 400,000 customers for this calculation was a compromise.

1 participating in each element. If a customer could take advantage of any or all of
2 NSPI's proposed savings as described in the DSM document, the savings would range
3 from \$10.42 (100 kWh from participating in all possible Partner-led programmes) to
4 \$708.56 (6,800 kWh by having an approved EnerGuide for New Houses home
5 upgraded with NSPI's assistance). Customers lucky enough to live in a house with a
6 child in Grade 5 participating in NSPI's Youth education programme could save 800
7 kWh or \$83.36 per child.

8 • Finally, the total number of beneficiaries of the DSM programme is estimated to be
9 about 223,000 or 56 percent of the residential customer base (assuming that no
10 customer benefits from more than one programme element). This suggests that about
11 44 percent of NSPI's residential customers will not save money from the programme.

12 **3.2. Reduce greenhouse gas emissions and help the environment**

13 Greenhouse gas emissions are mentioned once in the entire document (in the Executive
14 Summary), as part of the justification for the DSM programme. There are no calculations
15 performed to demonstrate the benefits, if any, of the proposed programme on greenhouse
16 gas reduction or the environment.

17 NSPI projects that by 2007, the proposed DSM programme will reduce demand by about
18 72 GWh. This is based largely on optimistic projections with respect to CFL (compact
19 fluorescent light) sales and educational programmes in the residential sector (see Table 4).

20 Although the Executive Summary mentions greenhouse gas emissions, there are no
21 calculations in the document showing the potential reductions in greenhouse gas
22 emissions. Using NSPI's projected savings of 71.6 GWh, the emissions reduction would
23 be 60.8 kt (kilotonnes)³, as shown in Table 5.

24 The greenhouse gas reduction associated with the residential programme elements make
25 up the majority of the savings at 51 kt. In turn, almost half of the total greenhouse gas
26 reductions are achieved from the installation of CFLs.

³ This assumes that the electricity generation displaced by these savings comes from thermal (coal-fired) facilities. The greenhouse gas intensity for coal in Nova Scotia is 850 tonnes per GWh (Environment Canada, 2004).

1 If NSPI is at all serious about achieving significant reductions in its greenhouse gas
2 emissions, the proposed DSM programme falls short of this goal. It is clear from the
3 DSM document that the most significant reductions in both demand and greenhouse
4 gases, will occur through the introduction of CFLs.

5 Despite the obvious benefits of CFLs, the proposed DSM residential lighting programme
6 is based entirely upon the belief that the 59 percent of NSPI's residential customers who
7 are using less than five CFLs will purchase 393,076 CFLs during 2006 (it is worth noting
8 that according to NSPI, 41 percent of NSPI's residential customers do not have a CFL in
9 their homes)⁴. NSPI's total budget for CFLs is about \$50,000 for the promotion, not
10 purchase.

11 There are about 240,000 residential customers with five or fewer bulbs; if NSPI was to
12 purchase and install 1 million bulbs in these houses, the demand reduction would vary
13 between 82 and 133 GWh, for 60 watt and 100 watt incandescent replacements,
14 respectively (see Table 6). The greenhouse gas reductions in both of these cases,
15 between 69 and 113 kt, exceed the total projected reductions as described in the DSM
16 document.

17 In 2004, NSPI's greenhouse gas emissions were about 10 Mt (or 10,000 kt). The
18 greenhouse gas emissions reduction associated with replacing one-million 100-watt
19 equivalent CFLs is 113 kt, slightly more than 1 percent of NSPI's total emissions in 2004.
20 If these bulbs could be purchased in bulk by NSPI for \$4 each, the programme would
21 cost \$4 million.

22 It is worth noting that NSPI has contracted the Pubnico Point windfarm to produce 100
23 GWh/year for \$7 million/year. The ideal reduction in greenhouse gases associated with
24 the windfarm will be about 85 kt, based upon the greenhouse gas intensity for coal of 850
25 tonnes per GWh.

26 The bulb replacement programme is less expensive (\$4 million vs. \$7 million) and is
27 more cost effective (an average of 91 kt reduction vs. an 85 kt reduction) than the

⁴ It should be noted that all of these statistics are based upon a survey conducted by Corporate Research Associates for NSPI as part of their development of the DSM document.

1 contract with Pubnico Point windfarm. This is not intended to cast doubt on the
2 windfarm, rather to show the potential benefits of a CFL rebulbing programme.

3 There are other benefits to a rebulbing programme, such as reducing the need for capacity
4 during the system peak (whereas wind can add to the peak capacity only if it is blowing
5 during the system peak). For example, the potential peak savings from either of the
6 proposed CFL replacement schemes are shown in Table 7 (the coincident peak demand
7 reduction of 60 percent is the number used by NSPI in the DSM document).

8 **3.3. Help build a conservation and energy efficiency culture in Nova Scotia, led by**
9 **our young people and our schools**

10 Over the past several years, NSPI has been subject to particularly bad press, in part due to
11 their responses to weather-related outages. This part of the DSM programme seems more
12 like a promotional scheme for NSPI in the classroom. If this is allowed to proceed, any
13 relationship with NSPI must be removed from the education material, as this could
14 unduly influence “*our* young people” in “*our* schools”.

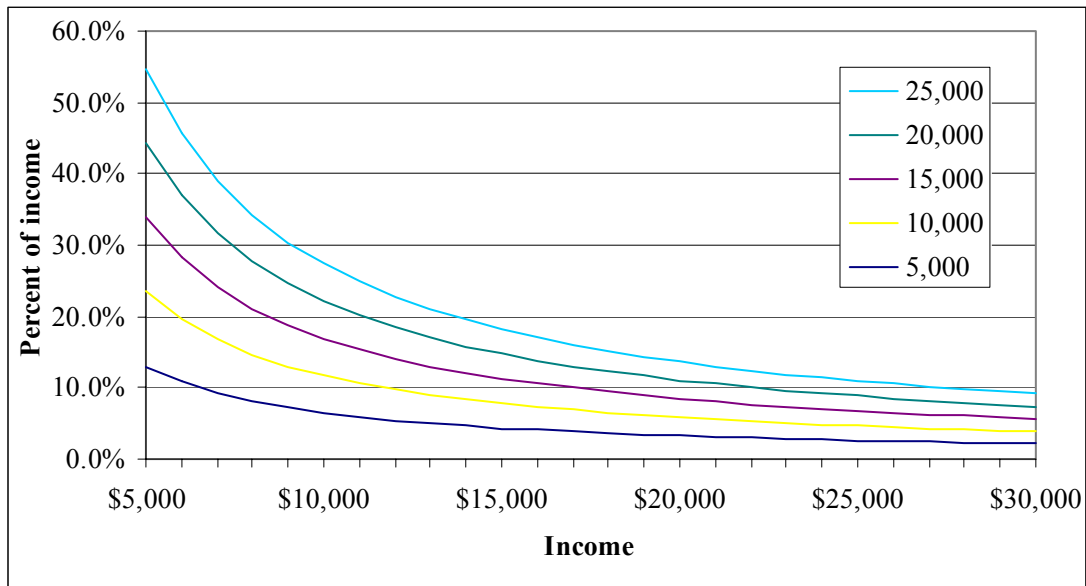
15 The NS Department of Energy has the staff and, one would like to think, the expertise to
16 develop such a programme. The Department of Energy, in conjunction with the
17 Department of Education, should be running such a programme. NSPI should not be
18 involved.

19 **3.4. Bring Nova Scotia Power together with community based partners in the**
20 **province, leveraging the efforts and investments of all in this worthwhile**
21 **pursuit**

22 The sole “worthwhile pursuit” in the DSM document is the proposal to partner with the
23 EnerGuide for Houses programme, matching federal grants (up to \$1,000) for as many as
24 450 electrically-heated homes. However, the existing EnerGuide for Houses programme
25 has at least two barriers to many Nova Scotians who could benefit from the programme:
26 the first being the cost of the initial energy audit (\$150), and the second being that the
27 householder must pay for any energy upgrades before being reimbursed.

28 For this to be a truly “worthwhile pursuit”, NSPI should target those residential
29 customers who are on low- or fixed-income and use electric heating. This would mean
30 covering the cost of the initial energy audit and helping pay for the energy upgrades.

1 The need for such a programme is best illustrated by considering the energy burden (that
2 is, the percentage of someone’s income spent on energy) on those on low- and fixed-
3 income. Figure 1 shows the energy burden on low-income Nova Scotians in terms of
4 annual electricity consumption. Not surprisingly, the higher the usage and the lower the
5 income, the greater the burden. For example, the energy burden of a customer
6 consuming 10,000 kWh per year (slightly above the residential average of 9,464 kWh per
7 year) would depend upon the customer’s income: the energy burden ranges from 23.4
8 percent (\$5,000 income) to 7.8 percent (\$15,000 income) to 4.7 percent (\$25,000 income).
9 Similarly, a customer’s energy burden depends upon demand; someone earning \$15,000
10 per year has an energy burden ranging from 4.3 percent (5,000 kWh) to 18.2 percent
11 (25,000 kWh).



12
13 **Figure 1: Energy burden on low-income Nova Scotians**

14
15 **3.5. Meet customer expectations that Nova Scotia Power do more to advance**
16 **energy efficiency and conservation**

17 Most, if not all, of the arguments for, and the contents of, the proposed DSM programme
18 are based upon a survey of customers invited to NSPI’s second “Customer Energy
19 Forum” by Corporate Research Associates (CRA). The survey involved interviewing
20 200 residential and 200 business customers. There were a total of 16 sets of questions in
21 the survey (see Table 8), most dealing with lighting and education; apparently resulting in

1 the DSM document's focus on lighting and education.

2 Much of the content of the proposed programmes seems to be more concerned with
3 promoting the NSPI brand than actually advancing energy efficiency or conservation. A
4 good example is the lighting campaign, in which NSPI will be spending \$100,000 on a
5 Christmas light exchange programme, exchanging strings of LED Christmas lights for
6 strings of non-LED lights, resulting in a potential annual demand reduction of 0.31 GWh.
7 Although the demand reduction is minor, it will raise NSPI's profile during the 2006
8 Christmas season. On the other hand, NSPI is proposing to spend \$50,000 on promoting
9 CFLs and hoping that 100,000 residential customers who have never purchased a CFL
10 before will purchase about 400,000 of them, resulting in a demand reduction 100-times
11 greater than that of the LED Christmas light exchange.

12 NSPI is also proposing that it spend \$732,300 on the "development of future
13 programmes" (consisting of "pricing design" and "other future programmes"). It is
14 unclear why the 2006 DSM programme should be saddled with these costs; as there are
15 no demand savings, real or imagined. If anything, pricing design (at a cost of \$300,000)
16 should be performed by those responsible for developing NSPI's rate cases. Similarly,
17 future programmes can be paid for and developed by NSPI's public relations department.

18 Given that NSPI is a member of various North American utility councils and
19 organizations, one would have thought that NSPI would have taken the lead, rather than
20 being led by its consumers. Examples abound across the continent of forward-thinking
21 utilities introducing energy saving and conservation programmes.

22 **4. Alternative Rate Schemes**

23 NSPI has rejected any possible change in its rate structure because of the responses they
24 received from a survey conducted by CRA. The rate-related questions appeared to be
25 structured to ensure a rejection of any rate scheme that encourages reduced usage, such as
26 time-of-use, inverted block rate, or winter-summer differential rates.

27 Although it is generally agreed that low-demand consumers cross subsidize high-demand
28 consumers, it does not appear that anyone participating in the survey was informed of this
29 fact. Similarly, no one had been told the following about NSPI's 2004 residential

1 consumer consumption (from NSPI's response to Hughes IR-6):

- 2 • Half of NSPI's residential consumers (210,000) used 840 GWh or 21.1 percent of
3 NSPI's residential generation. The other half of NSPI's residential consumers
4 consumed almost 80 percent of NSPI's residential generation.
- 5 • NSPI's average residential consumption was 9,464 kWh. Almost 62 percent (259,546)
6 of NSPI's residential consumers consumed less than 9,464 kWh.
- 7 • Half of NSPI's residential generation (about 2,000 GWh) was consumed by almost 25
8 percent (103,808) of NSPI's consumers.

9 Those surveyed also rejected time-of-use metering, despite the fact that it allows price
10 signaling to change consumption habits and can result in lower electricity bills. For
11 example, in NSPI's supplemental response to Hughes IR-3, the time-of-day tariff was
12 shown to result in considerable savings for consumers of electric heating:

- 13 • The annual consumption of an average ETS (Electric Thermal Storage) consumer is
14 25,614 kWh. If the consumer purchased the electricity at the proposed domestic
15 service tariff of \$0.1083 per kilowatt-hour, the annual cost for electricity would be
16 \$2,919.32, whereas using the proposed time-of-day tariff, the annual cost would be
17 \$2,076.64, a savings of \$842.69 (28.9 percent).
- 18 • Average weekday savings depend upon the time of year, varying from 14.2 percent
19 (December to February) to 20.9 percent (March to November); similarly, weekend and
20 holiday savings vary from 47.1 percent (December to February) to 43.8 percent
21 (March to November).

22 Without being told this information, it is unclear how those surveyed could have come to
23 any other conclusion than to reject alternative rate structures that allow for the generation
24 of price signals that can encourage real decreases in demand.

25 **5. Recommendations**

26 Of the \$5 million earmarked for this year's DSM, only the Christmas LEDs and the two
27 EnerGuide proposals actually spend money on something that is tangible (notably LEDs,
28 energy upgrades, heat pumps, and electric thermal storage); these expenditures come to

1 about \$750,000⁵. The other programme elements focus on education, studies, and
2 information, all of which appear to be promoting NSPI, either directly or indirectly –
3 whether these programmes will actually result in measurable reductions in electricity
4 demand is another matter entirely.

5 The following are recommendations for an alternative DSM programme:

- 6 • More of the funds should be devoted to demand reduction: this means a CFL
7 programme that targets those on low- and fixed-income first, replacing all bulbs (those
8 involved in last year’s Keep the Heat programme are apparently pleased with them).
9 If \$4 million were devoted to this at \$4/bulb, 1 million bulbs could be purchased and
10 installed.
- 11 • The EnerGuide for Houses programme element should be increased to \$520,000 (to
12 include audit costs) and targeted at those on low- and fixed-income who use electric
13 heating.
- 14 • The remaining \$480,000 should be used to promote conservation and energy
15 efficiency; for example, through advertising campaigns encouraging customers to use
16 less electricity during peak periods.

17 **6. Summary**

18 NSPI’s customers should have access to a DSM programme; however, the one proposed
19 in *Conservation and Energy Efficiency 2006* should not be approved by the UARB, as it
20 fails to achieve significant and meaningful demand reduction. Rather than demand
21 reduction, the proposed programme seems more like a promotion of the NSPI brand –
22 something many people would call a typical case of corporate “greenwash”.

23 The programme’s primary focus on public relations through activities such as awareness,
24 workshops, and youth education, yields limited demand reduction. If NSPI is interested
25 in significant demand reduction, a provincial rebulbing program, replacing incandescent
26 bulbs with CFLs is needed. Such a programme is cost effective and will help achieve

⁵ The \$750,000 figure was obtained as follows: LED Christmas lights (\$100,000), EnerGuide for Houses (\$497,500), and EnerGuide for New Houses (\$150,000).

1 reduction in both demand and greenhouse gas emissions.
2 Residential heating is central to surviving a Canadian winter. NSPI's proposal to match
3 federal grants for those benefiting from the EnerGuide for Houses programme is a good
4 idea; however, it can be taken further by targeting those on low- and fixed-income who
5 use electric heating and live in sub-standard housing. By covering the audit cost and part
6 of the energy upgrade, those in greatest need stand to benefit the most.

7 Finally, NSPI should not be permitted to wait for the approval of its consumers to
8 introduce price signals to discourage demand, especially when the justification for
9 waiting is based upon a poll in which those surveyed were given limited information.
10 An inverted block rate or a rate structure based upon fuel usage will generate price
11 signals that will go much further in helping NSPI achieve its stated goals in *Conservation*
12 *and Energy Efficiency 2006*.

13 **Acknowledgements**

14 The author would like to thank the following members of the Energy Research Group for
15 their comments and suggestions on an earlier draft of this paper: Alain Joseph, Mandeep
16 Dhaliwal, and Niki Sheth.

17 **References**

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Table 1: NSPI's projected demand for 2005 and 2006 (NSPI, 2005b). Italics denote derived figures.

Class Sales (GWh)	2004 Actual	2005 projected	2006 with DSM	2006 without DSM	Difference (2006 with and without DSM)	Percentage Growth		
						04-05	05-06 with DSM	05-06 without DSM
Residential	4,040	4,106	4,149	4,192	43	1.63%	1.05%	2.09%
Small General	165	241	246	246	0	46.06%	2.07%	2.07%
General Demand	2,426	2,405	2,451	2,467	16	-0.87%	1.91%	2.58%
Large General	401	421	426	426	0	4.99%	1.19%	1.19%
Unmetered	105	108	110	110	0	2.86%	1.85%	1.85%
Small Industrial	239	243	247	247	0	1.67%	1.65%	1.65%
Medium Industrial	567	576	586	586	0	1.59%	1.74%	1.74%
Large Industrial	135	137	138	138	0	1.48%	0.73%	0.73%
RTP	49	226	218	218	0	361.22%	-3.54%	-3.54%
Interruptible	924	885	916	916	0	-4.22%	3.50%	3.50%
Mersey	190	190	190	190	0	0.00%	0.00%	0.00%
GR&LF	223	192	195	195	0	-13.90%	1.56%	1.56%
Municipal	190	193	194	194	0	1.58%	0.52%	0.52%
Expansion Rate	0	0	0	0	0	NA	NA	NA
ELII Rate	1,870	1,859	1,858	1,858	0	-0.59%	-0.05%	-0.05%
Total Billed Sales	11,525	11,781	11,922	11,981	59	2.22%	1.20%	1.70%
Losses & Unbilled	863	872	863	868	5	1.04%	-1.03%	-0.46%
Net System Requirement	12,388	12,653	12,785	12,850	65	2.14%	1.04%	1.56%

Table 2: Impact of rate increase for various demands for residential customers

Demand (kWh)	Old demand charges	Old cost to customer	New demand charges	New cost to customer	Increase in demand charges	Percentage increase in total costs
5,000	\$461.00	\$590.96	\$520.93	\$650.89	\$59.93	10.14%
7,500	\$691.50	\$821.46	\$781.40	\$911.36	\$89.90	10.94%
10,000	\$922.00	\$1,051.96	\$1,041.86	\$1,171.82	\$119.86	11.39%
12,500	\$1,152.50	\$1,282.46	\$1,302.33	\$1,432.29	\$149.83	11.68%
15,000	\$1,383.00	\$1,512.96	\$1,562.79	\$1,692.75	\$179.79	11.88%
17,250	\$1,590.45	\$1,720.41	\$1,797.21	\$1,927.17	\$206.76	12.02%
20,000	\$1,844.00	\$1,973.96	\$2,083.72	\$2,213.68	\$239.72	12.14%
22,500	\$2,074.50	\$2,204.46	\$2,344.19	\$2,474.15	\$269.69	12.23%
25,000	\$2,305.00	\$2,434.96	\$2,604.65	\$2,734.61	\$299.65	12.31%
30,000	\$2,766.00	\$2,895.96	\$3,125.58	\$3,255.54	\$359.58	12.42%

Table 3: Potential customer savings from various programme elements

Programme element	Expected number of participants	Average savings (kWh)	Potential annual savings⁶
Installing four CFLs	100,000	329	\$34.28
Residential price awareness	12,000	400	\$41.68
Workshop	2,000	1,800	\$187.56
Youth education	6,000	800	\$83.36
Partner-led programme(s)	100,000	100	\$10.42
EnerGuide for Houses: Using supplemental information	2,400	400	\$41.68
EnerGuide for Houses: Implementing recommendations	425	4,017	\$418.57
EnerGuide for New Houses	250	6,800	\$708.56

⁶ Potential annual savings are calculated by multiplying the average savings by the proposed residential rate (\$0.1042 per kWh).

Table 4: Projected energy savings from proposed DSM programme

Program element	Residential (GWh)	Commercial (GWh)	Industrial (GWh)
Lighting	32.65	3.41	0
Awareness	4.72	1.08	0
Workshop	3.6	2.3	0.9
Youth	4.8	1.13	0.2
Partner	9.83	2.59	0
Energuides houses	2.67	0	0
Energuides new houses	1.7	0	0
Price design	0	0	0
Future program	0	0	0
Total expected reduction	59.97	10.51	1.1

Table 5: Potential greenhouse gas reduction from DSM programme

Source	GWh saved	Greenhouse gas reduction (kt)
All program elements	71.6	60.8
Residential only	59.97	51.0
Residential lighting	32.65	27.8

Table 6: Savings associated with CFLs in residential homes

Source	Savings per bulb	GWh saved	Greenhouse gas reduction (kt)
Total projected reduction for 2006	-	71.6	60.8
NSPI's CFL proposal (residential and commercial)	45 watts	32.65	27.8
1 million CFL replacement (60 to 15 watt)	45 watts	82.1	69.8
1 million CFL replacement (100 to 27 watt)	73 watts	133.2	113.2

Table 7: Peak savings from the CFL replacement schemes

CFL replacement scheme	Peak savings (MW)
1 million 15W CFLs × 45W savings × 60%	27
1 million 27W CFLs × 73W savings × 60%	43.8

Table 8: Types of questions used in NSPI-CRA survey

Questions on...	Number of questions
Lighting and CFLs	8
Customer spending on electricity	1
Support for electricity pricing	1
Education (NSPI alone or with partners)	4
Support for energy conservation actions	2