

NOVA SCOTIA ENERGY BOARD

IN THE MATTER OF: *The Public Utilities Act*

– and –

IN THE MATTER OF: AN APPLICATION by EFFICIENCYONE for approval of the 2027-2031 Demand-Side Management (DSM) Purchase Agreement between EfficiencyOne and Nova Scotia Power Incorporated, the establishment of a final agreement between the parties, and approval of a 2027-2031 Demand-Side Management (DSM) Resource Plan

INFORMATION REQUESTS

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From: The Consumer Advocate

Responses Due: May 28, 2026

Copies: 1 electronic copy (PDF searchable)

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1 **Request IR-1:**

2
3 Reference: 2027-2031 DSM Plan Application, Exhibit E-1, Evidence (“Evidence”), p. 1.

4
5 “The Preferred Plan is one which will provide the benefits of DSM at an affordable cost,
6 appropriate to the economic challenges being faced by Nova Scotians today. Consistent
7 with the NSEB's determination that the statutory purpose of DSM is to reduce electricity
8 costs for customers and recognizing the significant cost-of-living pressures currently facing
9 Nova Scotia households and businesses, the Preferred Plan prioritizes short-term
10 affordability and ratepayer value by ensuring electricity costs are reduced in both the near-
11 term and long-term.”

- 12
13 a. What economic circumstances would need to be in place to allow for more DSM
14 investment?
15 b. Does E1 agree that more DSM spending reduces bills even more and make energy costs
16 more affordable? Why or why not.
17

18
19 **Request IR-2:**

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21 Reference: Evidence, page 27, line 19-20.

22
23 Please provide, in MS Excel format, the inputs and results for E1’s IRP scenario modeling efforts.
24
25

26 **Request IR-3:**

27
28 Reference: Evidence, page 27.

29
30 “... For the period of 2027–2031 the level of energy savings in the IRP is 683.1 GWh,
31 123.9 MW of demand savings, and 44.3 MW from demand response (excluding rates –
32 CPP & TVP).
33

34 [...]

35
36 The energy savings levels modelled in E1’s early modelling scenarios (Round 1-2, 2026-
37 2030 DSM) aligned with these levels, reflecting a balance of energy savings that would
38 continue to move toward optimal levels of DSM while also being deliverable and in the
39 best interest of ratepayers.
40

41 However, feedback received from DSMAG members following these initial modelling
42 rounds highlighted concerns primarily focused on short-term affordability. E1 modelled in
43 Round 2 two energy efficiency scenarios that were responsive and addressed DSMAG
44 member concerns with lower investment levels. For informational purposes, E1 also
45 modelled a third scenario that reflected energy savings levels consistent with the IRP. The
46 IRP scenario was purposely designed with the goal of achievability. The IRP scenario as

1 modelled was cost effective, demonstrating energy efficiency continues to remain a lower
2 cost than supply side options. E1's Preferred Plan has prioritized short-term affordability
3 considerations as compared to longer-term considerations as represented in the IRP
4 scenario. The proposed energy savings of 435.4 GWh represents 64 percent of the IRP
5 target. This approach is not inconsistent with IRP direction. The IRP identifies optimal
6 levels of DSM over a long-term planning horizon (i.e. 25 years). E1's Preferred Plan
7 maintains a trajectory toward the IRP's long-term savings levels while prioritizing short-
8 term affordability consideration for the period of 2027–2031 given the current economic
9 context.”

- 10
- 11 a. Please identify which DSMAG members provided feedback that highlighted concerns
12 primarily focused on short-term affordability, and specifically identify the feedback
13 that was provided.
- 14 b. Please explain how only achieving 64 percent of the IRP target is “not inconsistent with
15 IRP direction” and “maintains a trajectory toward the IRP’s long-term savings levels.”
- 16 c. Does E1 expect that future program years will capture the gap in savings between the
17 IRP scenario and the proposed scenario?
- 18 d. How much additional supply will need to be acquired or not retired by failing to achieve
19 IRP level of savings?
- 20 e. Does E1 anticipate that the gap in savings between the IRP scenario and proposed
21 scenario could increase the risk of customers paying higher rates under future DSM
22 plans to close the gap?
- 23 f. How much additional lifetime GHG emissions reductions would result from the IRP
24 savings levels compared to E1’s Preferred Plan?
- 25
- 26

27 **Request IR-4:**

28

29 Reference: Evidence, p. 30 and Table 3

30

31 “The 2023–2025 DSM Plan positioned demand response as a development and learning
32 phase, with a focus on identifying effective program pathways and refining operational
33 delivery for initiatives such as Eco Shift. This approach reflects the typical evolution of
34 residential demand response programs across North America.”

35

- 36 a. E1 provides information pertaining to three jurisdictions. Please confirm whether E1
37 considered evolution of residential demand response programs in any other
38 jurisdictions, and if so, provide comparable details for each such jurisdictions as
39 provided in Table 3.
- 40
- 41
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1 **Request IR-5:**

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3 Reference: Evidence, page 38.

4
5 “E1 has heard from several members of the DSMAG over the past several DSM Plans that
6 consideration of short-term affordability via rate increases should be prioritized over long-
7 term affordability.”

- 8
9 a. Please identify which members of the DSMAG have expressed a preference for
10 prioritization of short-term affordability over long-term affordability, and which have
11 not.
12 b. Does E1 acknowledge that prioritization of short-term affordability over long-term
13 affordability remains in any event a question of degree?
14

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16 **Request IR-6:**

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18 Reference: Evidence, p. 31

19
20 “Through direct discussions with the IESO Demand Side Management team, the program
21 is expected to reach cost-effectiveness under the Program Administrator Cost (PAC) test
22 within the next year, approximately four years after its launch. IESO attributes this
23 progression to several factors commonly observed as residential demand response
24 programs scale, including: (1) growth in installed demand response capacity relative to
25 fixed program costs, (2) improving customer participation during demand response events,
26 (3) coordinated marketing and recruitment with smart thermostat manufacturers that reduce
27 customer acquisition costs, and (4) increased adoption of bring-your-own thermostat
28 participation models.”

- 29
30 a. What evidence has IESO’s Demand Side Management team provided to E1 to support
31 the expectation that E1’s demand response program will reach cost-effectiveness
32 within the next year?
33
34

35 **Request IR-7:**

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37 Reference: Evidence, page 38.

38
39 “The level of DSM considered optimal in NS Power’s IRP is in the best interest of
40 ratepayers for the long term, offering significant economic benefits, but E1 must also
41 consider the unique current economic landscape that is influenced by the rising costs of
42 housing, food, and energy. In response, E1 has held the annual investment in the Preferred
43 Plan at the 2026 DSM Plan level of \$63.75 million with no annual inflationary increases.”

- 44
45 a. How did E1 determine that the Preferred Plan was the optimal level of spending?

- 1 b. Does E1 agree that maintaining spending without accounting for inflation results in an
2 erosion of purchasing power and hence less GWh savings per dollar in subsequent
3 years? If not, why not?
4
5

6 **Request IR-8:**
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8 Reference: Evidence, p. 38
9

10 “Affordability continues to be a critical factor in determining the level of investment in a
11 DSM Plan. E1 has heard from several members of the DSMAG over the past several DSM
12 Plans that consideration of short-term affordability via rate increases should be prioritized
13 over long-term affordability. The level of DSM considered optimal in NS Power’s IRP is
14 in the best interest of ratepayers for the long term, offering significant economic benefits,
15 but E1 must also consider the unique current economic landscape that is influenced by the
16 rising costs of housing, food, and energy. In response, E1 has held the annual investment
17 in the Preferred Plan at the 2026 DSM Plan level of \$63.75 million with no annual
18 inflationary increases.”
19

- 20 a. On what basis does E1 assert that a period of 5 years represents a “short-term” outlook
21 as opposed to a “medium-term” or “long-term” outlook?
22 b. Does E1 agree that affordability will always be a critical factor, both for this DSM Plan
23 and for future plans?
24 c. Does E1 agree that the affordability issues identified above as part of the “unique
25 economic landscape” are not, in fact, unique only to the present time, and have been
26 relevant factors in the past, and may remain relevant factors in the future?
27
28

29 **Request IR-9:**
30

31 Reference: Evidence, page 41, Figure 4 Payback Analysis – Preferred Plan.
32

33 Please provide a comparable graph for the IRP DSM scenario.
34
35

36 **Request IR-10:**
37

38 Reference: Evidence, page 42, Table 6: – Preferred Plan – Average Rate Impacts by Resource over
39 2027-2046.
40

- 41 a. Please provide a comparable table showing the Average Rate Impacts by Resource between
42 2011-2026.
43 b. Please provide a comparable table for the Alternate Scenario
44 c. Please provide a comparable table for the IRP DSM scenario.
45
46
47

1 **Request IR-11:**

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3 Reference: Evidence, page 44, Figure 6 Average Rate and Total Customer Bill Impacts as a Result
4 of DSM Activities in 2027-2031 (Preferred Plan).

5
6 Please provide a comparable graph for the IRP DSM scenario.
7

8
9 **Request IR-12:**

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11 Reference: Evidence, page 45, Figure 8 Average Bill Impact (2027-2046) as a Result of DSM
12 Activities in 2027-2031 (Preferred Plan).

13
14 Please provide a comparable graph for the IRP DSM scenario.
15

16
17 **Request IR-13:**

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19 Reference: Evidence, p. 45-46
20

21 “The Preferred Plan gives due consideration to program delivery costs. E1 has heard some
22 concerns from stakeholders that program delivery costs have increased unreasonably since
23 the last plan. However, E1 submits that the observed changes in unit costs are attributable
24 to identifiable structural (e.g., reduced government funding, evaluation results) and market
25 factors (e.g., further evolution of the lighting market, particularly in the BNI sector,
26 increased costs of equipment, technology and labour) that are largely beyond E1's control,
27 and that E1 has taken active steps to demonstrate the management and containment of costs
28 within this environment ...”
29

- 30 a. Please identify all program delivery costs that have increased, and provide an
31 explanation for each increased cost.
32
33

34 **Request IR-14:**

35
36 Reference: Evidence, p. 54
37

38 “In designing the Preferred Plan portfolio, E1 explicitly balanced near-term rate impacts
39 with the long-term value delivered to ratepayers. The portfolio reflects a measured
40 approach to investment, limiting it to the same investment level as 2026 for each of the
41 five years. This approach paces savings acquisition in a manner that moderates annual
42 revenue requirements while preserving the durable system benefits of demand-side
43 resources. Program design and funding allocations prioritize cost-effective measures with
44 long measure lives, ensuring that near-term expenditures deliver sustained bill and system
45 cost reductions over time.”
46

- 1 a. Did E1 rely upon any industry standards or best practices in determining how best to
2 balance near-term rate impacts with long-term value delivered to ratepayers? If so,
3 please provide details regarding those standards and/or practices.
4 b. With respect to rate and bill impacts, has E1 compared its plan to recent and/or current
5 DSM plans in other jurisdictions that cover the same or a similar period? If not, why
6 not. If so, please provide the results of that review, and in particular any results that
7 would show others have followed a similar approach as E1 to prioritize short-term
8 affordability over long-term savings.
9

10
11 **Request IR-15:**
12

13 Reference: Evidence, pages 63-64
14

15 "E1 is also proposing further enhancements including:

- 16 • Reducing the threshold from 25 percent to 20 percent for program changes both
17 spending and savings that require explanations.
18 • Introducing a spending threshold of 15 percent for rate class spending changes that
19 require explanations."
20
21 a. Regarding the 15% spending threshold, what does E1 propose for the handling of any
22 under- or over-spending of annual budgets to make sure that the overall five-year
23 investment is maintained?
24 b. Based on historical expenditures by rate class for 2016–2024, in how many years did
25 actual rate-class spending fall outside a $\pm 15\%$ band relative to the approved plan
26 projections? Please provide a table showing planned vs. actual spending by rate class
27 for each year.
28 c. The BNI sector's savings are heavily dependent on custom projects that can take up to
29 two years to realize and carry timeline risk. Given this volatility, does E1 agree that an
30 annual rate-class threshold will in practice require MCA filings nearly every year? If
31 not, please explain why.
32 d. E1's proposed MCA process does not include any spending collar at the sector level
33 (residential vs. BNI). Please explain E1's rationale for not proposing a cumulative
34 sector-level collar over the plan term.
35 e. Please explain how an annual rate-class MCA collar, requiring frequent filings, serves
36 the Legislature's stated purpose of extending DSM plans from three to five years to "save
37 time, money, and resources by reducing the frequency of full regulatory proceedings."
38 (Evidence, page 65)
39
40

41 **Request IR-16:**
42

43 Reference: Evidence, page 18 and page 58
44

45 "E1 has also altered its approach to the application of the 'balanced plan' principles in DSM
46 plan design, in particular by moving away from its previous approach of applying a

1 50%/50% split in residential and business, non-profit and institutional ('BNI') investment,
2 a 40%/60% split in residential and BNI energy savings and a total investment in low-
3 income and equity support that aligns with current Census data on low-income prevalence
4 in Nova Scotia as design inputs, in response to DSMAG feedback." (page 18)

5
6 [...]

7
8 "The Preferred Plan also focuses on maintaining support for low-income and equity
9 customers. Dedicated low-income and equity savings representing 11 percent of the total
10 residential savings, is aligned with 2023-2026 at 10.5 percent." (page 58)

- 11
12 a. E1's Preferred Plan targets dedicated low-income and equity savings representing 11%
13 of total residential savings, stating this is "aligned with 2023–2026 at 10.5 percent."
14 Please confirm what the basis is for 11% — is it derived from census data, historical
15 program performance, program capacity, or another metric?
16 b. Would E1 support the position that equity for residential low-income customers should
17 be defined as achieving **savings** (not spending) commensurate with their share of
18 residential load? Why or why not?
19
20

21 **Request IR-17:**

22
23 Reference: Evidence, page 56, Table 7 and page 48, which states:

24
25 "Benchmarking – E1 ensures its costs are aligned with those of other similar industries,
26 organizations, and DSM administrators, where appropriate, through market research and
27 market comparisons prepared by independent third parties."
28

- 29 a. Please identify the specific utilities and jurisdictions used in E1's benchmarking exercise
30 referenced, and provide the first-year \$/kWh acquisition costs for each comparator.
31
32

33 **Request IR-18:**

34
35 Reference: 2027-2031 DSM Plan Application, Exhibit E-1, Appendix A ("Appendix A"), page 79.

36
37 "E1 notes that interruptible customers have not been eligible to participate in the past. The
38 potential for them to be eligible in the 2027–2031 DSM Plan period was raised through
39 DSMAG discussions and E1 is committed to further discussions to fully assess incremental
40 value and appropriateness with the members."
41

- 42 a. Does E1 agree that interruptible customers should be allowed to participate in Smart
43 Synergy? Why or why not?
44 b. If yes, please explain how E1 would determine the "incremental value" of a Smart
45 Synergy demand response event for a Large Industrial Interruptible (LII) customer,

1 given that the customer is already contractually obligated to reduce load to their firm
2 service level upon a curtailment call under the interruptible tariff.

- 3 c. The interruptible tariff already provides LII customers a demand charge reduction of
4 \$7.486/kVA for any billing demand above their contracted firm demand level. If an LII
5 customer also participates in Smart Synergy and receives an incentive for a demand
6 reduction during a DR event, please explain 1.) how the overall system benefits from
7 this arrangement and 2.) how E1 would ensure the customer is not compensated twice
8 for the same demand reduction.

9
10
11 **Request IR-19:**

12
13 Reference: Appendix A, Attachment 3.

14
15 For each of the measures listed in Appendix A, Attachment 3, please provide

- 16
17 a. The units for each line, and capacity of any HVAC systems
18 b. The assumptions for the baseline and efficient measure equipment efficiencies.
19 c. Incremental cost assumptions
20 d. The sources and calculations for energy savings (kWh, kW and other fuels if applicable).
21
22