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Request IR-01:

What average saving per year per unit is estimated for buildings that have had retrofits or plan to have retrofits under the Affordable Multi-Family Housing Pilot?

(a) For tenants who pay their own electricity bills. Please describe an example that illustrates these savings.

(b) For properties where electricity is included in rent? Please describe an example that illustrates these savings.

Response IR-01:

Average savings per unit in the Affordable Multi-Family Housing and Non-Profit Organizations Pilot were 5,795 kWh at meter in 2018.

a) For tenants who pay their own electricity, savings were achieved through a blend of measures, with most savings generated from heating system measures.

b) To-date, only units where tenants pay for their own electricity have participated in the Pilot. Therefore, EfficiencyOne does not have savings data for these units.

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Request IR-02:

What average saving per year is estimated for households living in buildings where the property has had retrofits or is committed to having retrofits under the First Nations Pilot?

Response IR-02:

The 2020-2022 DSM Resource Plan used an estimated average savings of 7,312 kWh for the whole home measures for the First Nations Home Energy Efficiency program component. Preliminary savings results indicated that average savings per unit may be lower than modelled. However, these results may be due to the small sample size of the Pilot. EfficiencyOne intends to closely monitor the results of this program initiative to determine if anticipated savings are being realized.

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Request IR-03:

At what level is the Affordable Multi-Family Housing and Non-Profit Organizations Program funded under NSPI's \$27 Million and \$34 Million scenarios?

(a) Is there any reason that the Affordable Multi-Family Housing and Non-Profit Organizations Program can't be funded under NSPI's 2 scenarios at the \$1 Million level recommended in the Preferred \$43 Million scenario?

(b) Would you support the \$1 Million level of funding for the Affordable Multi-Family Housing and Non-Profit Organizations Program under NSPI's 2 scenarios?

Response IR-03:

The table below includes the investment level for the Affordable Multi-Family & Non-Profit Organizations and the First Nations Home Energy Efficiency program components as taken directly from these four model outputs provided by Navigant directly to NS Power. Navigant described Max demand as “maximized peak demand savings per dollar spent” and Max impact as “maximized utility savings per dollar spent”.

	Affordable Multi-Family Housing & Non-Profit Organizations			First Nations Home Energy Efficiency		
	Spending (\$) (excludes Enabling Strategies)			Spending (\$) (excludes Enabling Strategies)		
Model Output	2020	2021	2022	2020	2021	2022
\$27 Max demand:	\$629,343	\$625,047	\$1,024,172	\$128,768	\$128,768	\$128,768
\$34 Max demand:	\$963,606	\$1,350,561	\$1,359,940	\$128,768	\$128,768	\$128,768
\$27 Max impacts:	\$1,343,463	\$1,324,379	\$1,341,759	\$0	\$0	\$0
\$34 Max impacts:	\$1,697,008	\$1,688,616	\$1,697,706	\$0	\$0	\$0

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- 1 a) EfficiencyOne conceives that an annual investment of \$1.0 million for the Affordable
2 Multi-Family Housing & Non-Profits and \$1.5 million for First Nations Home Energy
3 Efficiency could be included under a \$27.0 million and \$34.0 million DSM investment
4 scenario. This could be challenging if constraints were applied for the first-year energy
5 savings and/or first year unit cost of energy savings because these program components
6 have a higher unit cost than EfficiencyOne's existing programs and as a result generate
7 fewer energy savings.
8
- 9 b) EfficiencyOne is concerned that a \$27.0 million or a \$34.0 million scenario with an
10 investment level for Affordable Multi-Family Housing & Non-Profits at the same level as
11 the Preferred Plan may impede EfficiencyOne's ability to meet any corresponding
12 Performance Targets.

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Request IR-04:

At what level is the First Nations Program funded under NSPI's \$27 Million and \$34 Million scenarios?

(a) Is there any reason that the First Nations Program can't be funded under NSPI's 2 scenarios at the \$1.5 Million level recommended in the Preferred \$43 Million scenario?

(b) Would you support the \$1.5 Million level of funding for the Affordable Multi-Family Housing and Non-Profit Organizations Project under NSPI's 2 scenarios?

Response IR-04:

a) Please refer to EfficiencyOne's response to AEC IR-03.

b) Please refer to EfficiencyOne's response to AEC IR-03.

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Request IR-05:

Given the high cost of efficient lighting, will the residential Efficient Products Installation program continue to be offered to low income customers under each of the 4 scenarios proposed by E1 and NSPI for the full 2020-2022 contract period?

(a) Do you anticipate any reduction in this program that could limit the number of low income households who benefit from it, compared with the number that have benefitted from it in the last contract period?

Response IR-05:

EfficiencyOne's Preferred Plan and Alternate Scenario both include the Efficient Product Installation program component for all three years of the 2020-2022 Plan period. This program component is available to both low income and non-low income participants.

The Efficient Product Installation program component is included in the four model outputs provided to NS Power by Navigant. EfficiencyOne is unaware of any participant eligibility changes considered for these.

a) Table 1 below provides the actual energy savings and expenditures for the Efficient Product Installation program component over the 2016-2018 Plan period and the proposed energy savings and investment level in EfficiencyOne's 2020-2022 DSM Preferred Resource Plan.

EfficiencyOne – EfficiencyOne Application for approval of a Supply Agreement for Electricity
Efficiency and Conservation Activities between E1 and Nova Scotia Power Inc. (DSM 2020-
2022) M09096 (E-ENS-R-19)
E1 Responses to Affordable Energy Coalition (AEC)

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Table 1: Efficient Product Installation Program Energy Savings, Expenditures, and Investments

2016		2017		2018		2020		2021		2022	
First-Year Energy Savings (GWh)	Expenditures (\$ million)	First-Year Energy Savings (GWh)	Expenditures (\$ million)	First-Year Energy Savings (GWh)	Expenditures (\$ million)	First-Year Energy Savings (GWh)	Budget (\$ million)	First-Year Energy Savings (GWh)	Budget (\$ million)	First-Year Energy Savings (GWh)	Budget (\$ million)
19	\$4.90	17.9	\$3.70	12.8	\$2.80	12.6	\$2.50	11.6	\$2.20	10.6	\$2.10

As seen in the above table, energy savings in Efficient Product Installation have been declining since 2016 as remaining opportunities in the market diminish. This trend is expected to continue over the 2020-2022 DSM Plan period. As a result of lower participation levels for the program component as a whole, it is reasonable to expect that low income participation levels would also be lower.

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Request IR-06:

Are there any other programs targetting low or modest income residential customers that E1 will test during the 2020-2022 contract period? Please explain.

(a) Under which of the 4 scenarios proposed by E1 and NSPI will these programs be tested? Please explain.

Response IR-06:

a) EfficiencyOne's Preferred Plan and Alternate Scenario both include the Affordable Multi-Family and Non-Profit Organizations and First Nations Home Energy Efficiency program components which target low income residential customers. Four of NS Power's model outputs include the Affordable Multi-Family Renter program component and two of the four model outputs include the First Nations Home Retrofits program component.

EfficiencyOne has not included additional programs, program components or pilots targeting low or modest income residential customers in either the Preferred Plan or Alternate Scenario. EfficiencyOne has no knowledge of planned expenditures on additional low or modest income or pilots included in the model outputs provided to NS Power by Navigant.

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Request IR-07:

Are there any other programs targeting low income residential customers that are not currently included in E1's scenarios but that E1 is aware of that exist in other jurisdictions? Please describe them.

(a) Is it possible these could be tested during the 2020-2022 contract period? Please explain why or why not.

Response IR-07:

Yes. E1 staff working on low income programs are aware of other low income programs. In delivering these programs, staff become aware of similar efforts in other jurisdictions through research, reports, conversations, etc. However, in developing the 2020-2022 DSM Plan EfficiencyOne did not conduct a recent jurisdictional scan on low income programs. Rather, this is typically done when establishing pilot programs, which later evolve, in some cases, into more significant and longer term offerings.

Because a recent jurisdictional scan was not conducted, EfficiencyOne does not have a list of current low income programs delivered in other jurisdictions.

a) However, as staff working on low income programs become aware of programs in other jurisdictions, the approach and/or findings from other jurisdictions may be used to help further improve the low income programs included in the 2020-2022 DSM Resource Plan. This is consistent with EfficiencyOne's approach of continually improving program offerings.