**MEMORANDUM**

DATE: 9/16/22

TO: CT Evaluation Committee, Utilities, Technical Consultants

FROM: EA Team

RE: Summary of Additional Gross Savings Results from NMR for HES & HES-IE Results (R1983)

It has come to my attention that any additional results that are available from the R1983 report are desirable, even though they are not necessarily expected to be integrated into the PSD update at this time. We understand these results may be useful for measure priorities / mix, program, and cost analyses for the filing.

A detailed table, Figure 4, provided at the end of the memo savings for the complete set of HES & HES-IE measures. A few measures (which are also in Figure 4) are called out on this page as well. A few of these highlights were also mentioned very briefly in the HES&IE planning meeting last week. You may recall from this discussion that the “looking forward” / prospective savings are expected to move in a downward direction (all else being equal), because of trends of lower pre-participation consumption in new cohorts of participants (Figure 2).

 “Granular” results are not yet available. We anticipate a draft report to the EA team in mid-October. NMR reports usually do not need a significant amount of editing prior to review by the Committee. We will do what we can to provide information in a timely manner. Please feel free to forward any questions.

Figure 1: Air Sealing and Insulation Results – Evaluated Statewide Natural Gas Weatherization Savings (therms/yr[[1]](#footnote-1)) for 2019 participants – lower values



Figure 2: Trends in lower pre-participation consumption by cohorts across a consistent year (2017)

|  |  |  |
| --- | --- | --- |
| **2018 participants** | **2019 participants** | **2020 participants** |
| 1,033 therms | 831 therms | 682 therms |
|  | 20% less | 34% lower |

Figure 3: Lighting Result Lower



The lighting results in Figure 3 mirror the results from the R1603 results (previous HES & HES-IE impact evaluation / Westhill), and mirror Rhode Island EWSF (15-19 kWh) and Rhode Island IESF (18 kWh). The values in the table above, because they result from a billing analysis, should be interpreted as net savings.

Other results include:

* Duct sealing: 9 therms / participant for the 38% of HES participants that receive the measure.
* Smart thermostats found a 60% realization rate. NMR recommends updating the heating load impact value (existing value is 2012 vintage). This reduction is driven by the reduction in pre-program usage.
* Many other appliances and DHW measures (except dehumidifiers) show gross realization rates of about 100%.

Figure 4: Per Unit Gross Savings (NMR 2022)



1. Note that Figure 1 presents savings in therms/year (which enabled our team to directly R1983 results to benchmarked evaluations that also used therms), whereas Figure 4 below presents savings in CCF/year (which is consistent with the Program Savings Document). [↑](#footnote-ref-1)