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| To: | Erin Daughton (ComEd) |
| CC: | Jennifer Morris (ICC), Jeff Erickson (Navigant, a Guidehouse Company) |
| From: | Emily Cross, Rob Neumann (Navigant, a Guidehouse Company) |
| Date: | March 13, 2020 |
| Re: | ComEd CY2019 Nonprofit Retrofits Impact Evaluation - Preliminary Findings  |

# Introduction

This memo provides preliminary findings from the CY2019 Nonprofit Retrofits Program impact evaluation. . Guidehouse is providing this memo prior to the full report since final savings data arrived post January 30th, 2020 and the evaluation team requires more time to complete the initial evaluation report. The draft impact evaluation report will be delivered on or about Friday, March 20th, 2020.

The preliminary verified net savings for the program are 3,182,575 kWh.

Table 1. CY2019 Preliminary Total Annual Incremental Electric Savings



NR = not reported (refers a piece of data that was not reported, i.e., non-coincident demand savings)

NA = not applicable (refers a piece of data cannot be produced or does not apply)

\* The coincident summer peak period is defined as 1:00-5:00 p.m. Central Prevailing Time on non-holiday weekdays, June through August.

Source: ComEd tracking data and Guidehouse team analysis.

# Methodology

The evaluation team conducted an engineering review to verify the ex ante gross savings. This included a detailed review of the tracking data and a review of the measures for a random sample of measures using TRM v.8.

# Findings

Guidehouse performed an early review of variable inputs used in the ex ante calculations and found a few inconsistencies with TRM v.8 which the implementer promptly updated in CY2019. These included the in-service rate (ISR) for some measures, the EUL for de‑lamping measures, and measure names from an earlier draft of the TRM v.8.

For the end‑of‑year verification, the evaluation team has the following finding and recommendation.

**Finding 1.** The ex ante inputs for key variables such as lighting wattages, waste heat factors, coincidence factors, and hours of use used by the implementer matched TRM v.8. In some cases, the implementer used conservative values for hours of use based on the building type table from section 4.5 Lighting End Use in TRM v.8. This may result in underestimating savings when it is not necessary to do so.

**Recommendation 1.** Guidehouse recommends per TRM v.8 “Note where a measure installation is within a building or application that does not fit with any of the defined building types below, the user should apply custom assumptions where it is reasonable to estimate them, else the building of best fit should be utilized.”