



# Savings Protocols for **ENERGY STAR** Retail Products Platform

**IL SAG Market Transformation Savings Working Group**

August 16, 2022



# Agenda

- Brief overview of ENERGY STAR Retail Products Platform
- Summary of comments and updates to the ESRPP Attachment C Protocol
- Next Steps

# Overview of ESRPP

- ENERGY STAR® Retail Products Platform (ESRPP) market transformation initiative
- Implemented by Northwest Energy Efficiency Alliance (NEEA)
- **Focus:** Asking retailers to take a more comprehensive view of energy-efficient products and providing retailers with incentives to change their inventories to sell increasing numbers of ENERGY STAR certified products.
- ComEd joined in Q2 CY2020 and provides midstream incentives for two product categories;
  - Top loading clothes washers
  - Refrigerators



# Attachment C Update

**ESRPP Evaluation Protocol**

# Comments on Attachment C ESRPP Savings Protocol

- ComEd and NEEA
  - Clarification on two sections
- Opinion Dynamics
  - Comments in several sections related to ComEd specificity in protocol
  - Wanted to ensure flexibility in case other Utilities adopted the initiative in the future

# Updates to the ESRPP Protocol - Overarching

- Replacing specific language in favor of more general language provides opportunity for protocol to be updated based upon ongoing activities

*This protocol documents the current practice for ESRPP evaluation as of September 1, 2022. Future evaluation efforts and activities are planned and may result in modifications to this protocol if appropriate.*

# Overview of the ESRPP Protocol

## Data and Data Cleaning

- Retained guidance on qualified products lists, prioritization, and key aspects of data and data cleaning
- Adjusted the language from “should do” to “recommended approach” to allow for future flexibility

### Qualified Product Lists (QPLs)

Gather information for unit energy savings (UES) calcs

ENERGY STAR



```
graph TD; A[ENERGY STAR] --> B[DOE]; B --> C[CA Energy Comm.]
```

DOE

CA Energy Comm.

# Overview of the ESRPP Protocol

## Natural Market Baseline

- Added written clarification on methodology of calculation
- Adjusted language to recommend using available data; does not specify it *must* be used.

$$MS_n = a + \frac{\sum (year_i - \overline{year}) (MS_i - \overline{MS})}{\sum (year_i - \overline{year})^2} * year_n$$



# Overview of the ESRPP Protocol

## Unit Energy Savings

- Continuing to calculate savings with state specific TRM algorithms and inputs
  
- 5.1.2 ENERGY STAR Clothes Washers
  - Capacity and IMEF from product lookups
  - Ncycles uses default TRM assumption
  
- 5.1.6 ENERGY STAR and CEE Tier 2 Refrigerator
  - Difference in Unit Energy Consumption (UEC)

# Overview of the ESRPP Protocol

## Annual Savings

### Equation 2. ESRPP Energy Savings

*ESRPP Savings*

$$= (UES \times \text{Total Market Units}) - (UES \times \text{Total Market Units} * NMB) - OPS$$

- **Added OPS**
  - Energy savings that may spill over from other program offerings

### Equation 3. Non-Program Sales

$$NPS_{utility} = NS \times \frac{HH \times Saturation_{IL}}{HH \times Saturation_{US}} \times \frac{ResC_{utility}}{ResC_{IL}} \times \frac{PU_{class}}{PU_{category}} - PS$$

- **Added PS**
  - Sales from participating retailers

# Overview of the ESRPP Protocol

## Non-Participating Retailers

- Included language to emphasize importance for evaluators to assess non-participating retailers' contributions to savings and potential research methods.
- Mentioned ComEd's evaluation approach and current results
  - Does not require all utilities to use that value

# Questions and Comments

## **Patricia Plympton**

Associate Director, Guidehouse

[patricia.plympton@guidehouse.com](mailto:patricia.plympton@guidehouse.com)

## **Ryan Wall**

Senior Consultant, Guidehouse

[ryan.wall@guidehouse.com](mailto:ryan.wall@guidehouse.com)

## **Jason Christensen**

Senior Associate, Cadmus

[Jason.Christensen@cadmusgroup.com](mailto:Jason.Christensen@cadmusgroup.com)

## **Mike Frischmann**

Vice President, EcoMetric

[mike@ecometricconsulting.com](mailto:mike@ecometricconsulting.com)

