

Illinois Income Qualified Working Group (IQ-TRM)

April 13, 2023

IQ-TRM Facilitator

MUSE
COMMUNITY + DESIGN

Agenda

IL IQ-TRM Working Group

April 13, 2023

9:00	Welcome, Introductions
9:10 – 10:00	Evaluation Framework Discussion
10:00 – 10:15	TRM Status
10:15 – 10:45	New Measures, Open Items
10:45 – 10:50	Wrap Up Next IQ-TRM Working Group: Thursday, May

IQ-TRM Facilitator

Framework for Review

1 Contextual Principle: Income-qualified customers may use different stores or secondary markets to purchase/obtain an efficiency measure.

Parameters to Consider (how it could be reflected in TRM measure)	Key Questions for reviewers to consider
<ul style="list-style-type: none">• Baseline assumptions<ul style="list-style-type: none">• Store stocking differences• Second-hand units• Degradation over time• Measure cost differences• Expected lifetimes	<ul style="list-style-type: none">• Do we have data to support updating these parameters?• Is there a secondary market for this measure?• What is the typical cost of second-hand products?

Framework for Review

2 Contextual Principle: Home demographics may be different for income-qualified customers – number of people living per household, hours spent at home per day.

Parameters to Consider (how it could be reflected in TRM measure)	Key Questions for reviewers to consider
<ul style="list-style-type: none">• Deemed assumption of # people per household• Loadshapes (example: night shift workers & disabled participants home 24/7)	<ul style="list-style-type: none">• Weighting for unknown value available? (necessity would depend on program delivery method)• Reliability of self-reported information?

Framework for Review

3 Contextual Principle: **Housing characteristics** – e.g. size, type, shell conditions, heating, cooling, structural

Parameters to Consider (how it could be reflected in TRM measure)	Key Questions for reviewers to consider
<p>Shell:</p> <ul style="list-style-type: none">• lower R-value likely• Increased air leaks <p>Structural:</p> <ul style="list-style-type: none">• Limitations to measure installed due to existing conditions• Increase cost of installation <p>Heating / Cooling:</p> <ul style="list-style-type: none">• Older equipment• Lower efficiencies• Utilizing window ACs and space heaters vs central• See below for usage differences Add average size of homes/apts. are smaller.	<ul style="list-style-type: none">• Studies or evaluations with data supporting different shell characteristics• Does the limitations of the home impact the typical costs of installation?• Are there significant differences in the heating and cooling equipment in IQ homes?• Can we quantify the degradation of equipment performance?

Framework for Review

4 Contextual Principle: Income-Qualified households may have different usage patterns of measures – e.g. run hours, maintenance, lifetimes, security concerns

Parameters to Consider	Key Questions
<p>Run hours:</p> <ul style="list-style-type: none">• Consumption pattern differences – e.g. single window AC used in an IQ home v home with multiple units each used less frequently.• Behavior differences e.g. reduced run hours to conserve money <p>Lower space heat set point temperatures</p> <p>Delayed or non-existent maintenance:</p> <ul style="list-style-type: none">• Decreased efficiency of system <p>Measure lifetimes:</p> <ul style="list-style-type: none">• Assumed longer as participants less likely to replace until existing unit completely fails• Baseline lifetime may be significantly shorter if purchased via secondary market <p>Security concerns:</p> <ul style="list-style-type: none">• Increased run hours of outdoor lighting• Use of secondary space heating:• Winter: Offset central heating costs to heat smaller area, decrease of run hrs and/or lower set temp with increase electrical consumption• Fall/Spring: Delay turning on main heating source	<ul style="list-style-type: none">• Data supporting assumptions of different hours of use?• How to determine deemed set temp for space heating?• How delayed is maintenance? Potentially home done, cutting down on labor costs, not necessarily professional level• How long do people keep existing equipment before replacing• Secondary heating source could be varied: size efficiency, frequency. How to determine & support those variables?

**Draft list of 2023
Discussion Items**

