Equity Advisory Group Meeting

November 13, 2023 5 p.m. – 7 p.m.



Welcome and Introductions

Rose McKinney-James

Facilitator



YouTube livestream and Public Comment for observers

Public Comment

- The public comment period will start at 7:00 p.m.
- Instructions to join will be presented during break.
- Please do not join the meeting until then. The first 5 individuals will have 2 minutes each to speak.

Livestream

- Observers can watch the meeting through the YouTube livestream link.
- Prepare to provide your verbal comments during the observer comment period on the agenda.



Facilitator requests

Participants, please:

- Listen to and appreciate the diversity of views and opinions
- Actively participate in the group
- Behave constructively and courteously towards all participants
- Respect the role of the facilitator to guide the group process

Observers, please:

 Respect the Joint Advisory Group's time to discuss meeting topics



Safety Moment

Amy Nichols
EAG Member



Filter through your filters!

- HVAC filters grow bacteria, mold, dust
- · Dirty filters increase risk of fire
- Follow manufacturer advice, change more often in the summer
- Merv 14+ recommended



- Activated charcoal can hold bacteria and mold
- An old filter can be more harmful than tap
- Change your filter every 3 months



The inside of a brita filter, via Brita.com



Equity Moment

Troy Hutson
Director, Energy Equity



Energy Justice

Recognition

Requires an understanding of historic and ongoing inequalities and prescribes efforts that seek to reconcile these inequalities





Procedural

Focuses on inclusive decisionmaking processes and seeks to ensure that proceedings are fair, equitable, and inclusive for participants, recognizing that marginalized and vulnerable populations have been excluded from decision-making process

Restorative

Otilizes regulatory government organizations or other interventions to disrupt and address distributional, recognitional or procedural injustices and to correct them through laws, rules, policies, orders and practices.



2⁴2 Distributional Justice

Distributional

Distribution of benefits and burdens across populations. Aims to ensure marginalized and vulnerable populations do not receive inordinate share of the burdens or are denied access to benefits



Agenda

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5:00 p.m. – Welcome
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5:05 p.m. – PSE and EAG Updates

5:25 p.m. – Non-Energy Impacts Energy Equity Update

6:10 p.m. – BREAK

6:15 p.m. – Delivery System Planning

6:35 p.m. – Energy Equity Update

6:55 p.m. – Next steps

7:00 p.m. – Public Comment



Objectives

- Receive relevant updates from PSE and EAG committees
- Reflect on progress integrating EAG feedback into Delivery System Planning
- Learn more about non-energy impacts
- Receive Energy Equity update



PSE and EAG Updates

Kara Durbin

Director, Clean Energy Strategy

Ray Outlaw

Manager Communications Initiatives, Clean Energy Strategy



2023 Biennial CEIP Update

2023 Biennial Update

- Formally submitted on Nov.
 1, 2023
- Commission public comment period to follow (we will keep you updated)
- Commission review and approval process (we will keep you updated)

Looking ahead to 2024

- Continue addressing
 Commission conditions
- Continue clean energy resource acquisition
- Continue refining existing and developing new programs
- Continue and advance equity efforts
- Develop 2025 CEIP (2026-29)



Steering Committee updates

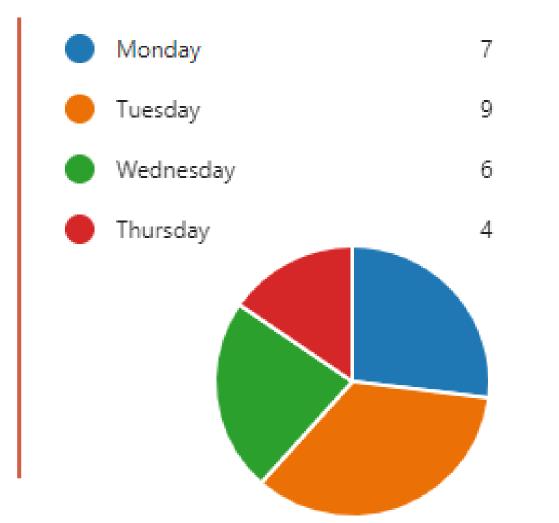
- Provide 2022 end of year feedback to each member
- More detailed end of year data
- Improved feedback loop regarding topics and progress

Looking ahead

- Scheduling end of year checkins
- Developing workplan for 2024



2024 Meeting Poll and Dates



2024 meeting dates:

- Tuesday, January 16, 2024
- Tuesday, February 20, 2024
- Tuesday, March 19, 2024
- Tuesday, May 21, 2024
- Tuesday, June 18, 2024
- Tuesday, July 16, 2024
- Tuesday, September 17, 2024
- Tuesday, October 15, 2024
- Tuesday, November 19, 2024



Non-Energy Impacts

Kasey Curtis
Senior Market Analyst



Non-Energy Impacts

In 2019, the WUTC added conditions to PSE's two-year conservation plan:

Puget Sound Energy must demonstrate progress towards identifying, researching, and developing a plan to properly value nonenergy impacts that have not previously been quantified.

Equitable Distribution of Nonenergy Benefits

a) During this biennium, Puget Sound Energy must demonstrate progress towards identifying, researching, and developing a plan to properly value nonenergy impacts that have not previously been quantified. The nonenergy impacts considered must include the costs and risks of long-term and short-term public health benefits, environmental benefits, energy security, and other applicable nonenergy impacts. These impacts and risks must be included in the 2022-2023 Biennial Conservation Plan.



Non-Energy Impacts and EAG

In 2022, the WUTC added conditions related to engaging advisory groups:

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11) Equitable Distribution of Nonenergy Benefits

a) During this biennium, PSE must continue to demonstrate progress towards identifying, researching, and properly valuing nonenergy impacts. The nonenergy impacts considered must include the costs and risks of long-term and short-term public health benefits, environmental benefits, energy security, and other applicable nonenergy impacts. In consultation with the Company's conservation, equity, and resource planning advisory groups, nonenergy impacts and risks must be included in the next Biennial Conservation Plan and Conservation Potential Assessment.



What are Non-Energy Impacts?

Non-Energy Impacts (NEIs) are the quantified costs or benefits of energy efficiency that are not already accounted for in avoided energy costs

Avoided energy costs (examples)

Energy cost savings

Capacity cost savings

Transmission and distribution benefits

Greenhouse gas savings

Non-energy benefits (examples)

Reduced air pollution

Water savings

Increased comfort

Reduced customer arrears



Non-Energy Impacts - Example

Example			
Program	Measure	Avoided energy costs	Non-energy benefits
Weatherization	Air sealing	Reduced heating loss Reduced heating load Lower energy costs	 Improved comfort Reduced noise Reduced secondary heating Improved system Performance Reduced air infiltration



How are NEIs used?

Total Resource Cost Test

The sum of all *lifetime* benefits of our Energy Efficiency portfolio must be greater than or equal to the cost.

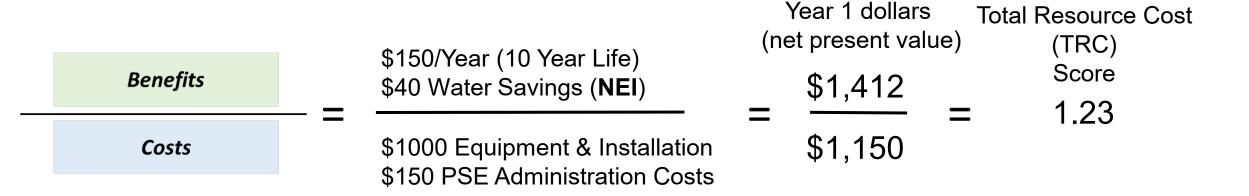
Total
Resource
Cost Test

$$= \sum \frac{Benefits}{Costs} = \frac{Avoided Energy Costs}{Cost Test} + \frac{Non-Energy}{Impacts}$$
Customer Measure Costs
Program Administration Costs



Example

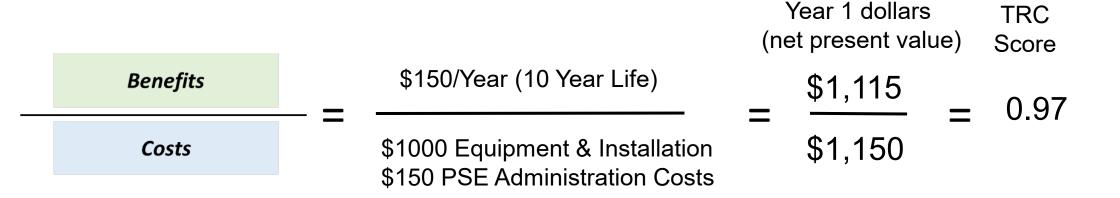
An energy efficiency project costs \$1000 dollars to implement. It will save \$150 per year in energy costs and provide \$40 per year in water savings. Expected life is 10 years.





Example without NEI

An energy efficiency project costs \$1000 dollars to implement. It will save \$150 per year in energy costs and provide \$40 per year in water savings. Expected life is 10 years.





How are NEIs calculated?

NEIs are calculated (or estimated) in a number of different ways:

Direct measurement

Example: A new dishwasher saves energy *and* water.

Water Savings = gal/yr reduced x local water/sewer rates

Modeling

Example: Weatherization reduces reliance on wood fuels

Wood fuels = reduction in air pollutants

Reduced pollutants can be modeled to assess health effects using existing risk assessment tools

Surveys

Example: LED lighting improves lighting quality

Survey Population receiving benefit

Ranked-choice preference survey



PSE's 2021 NEI Project

- 2021: PSE, Avista & Pacificorp partnered in NEI research
- Resulted in database of NEIs; approximately 780 new measures (see appendix slide 49 for details)

Example NEI categories

Thermal Comfort

Property Value

Utility Service Calls

Health and Safety

Fire/Insurance Damage

Product Spoilage/Defects

O&M Savings

Bad debt/Write-offs

Productivity



Additional statewide efforts

In 2022, the WUTC convened a Cost Effectiveness working group (Docket #210804) with the **goal** to:

- Align cost-effectiveness tests across all distributed energy resources, including EE, distributed generation, EVs, etc
- Adopt a Washington-specific cost test which incorporates all known NEI benefits within the framework of the NSPM
- Incorporate the distributional effects of all energy benefits and costs
- Work is ongoing



Challenges of NEIs

- Some NEIs are negative (example: operations and maintenance costs increase with control systems)
- NEIs can be difficult to quantify
 - Simple: water savings, air pollutant reductions
 - Complex: increased resilience, decreased risk, increased reliability
- Subjectivity in impact and cost
- Costs of research compared to impact on CE
- Allocation of impacts across disparate populations



Recap

- Non-Energy Impacts (NEIs) are the quantified costs or benefits of energy efficiency that are not already accounted for in avoided energy costs
- Commission directed PSE to include NEIs and known risks in our conservation planning
- NEIs help utilities account for the full costs and benefits of programs
- NEIs can be challenging to measure
- Work is ongoing to incorporate NEIs into our processes



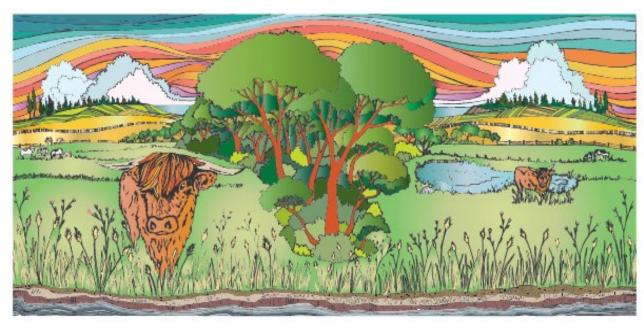
Discussion questions

 Thinking about equity and your guiding principles of accountability, accessibility, and affordability, do you see risks or have initial concerns with this concept or implementation of NEIs?



Break

Please return at 6:00 pm



"Farmscapes" by Tia Savedo of Whidbey Island, WA

The public comment period will start at 7:00 p.m.

Please do not join the meeting until then. The first 5 individuals will have 2 minutes each to speak.

- 1. Join the Zoom meeting:
 - a) Visit https://zoom.us/join
 - b) Insert Meeting ID: _____
- 2. Call in to the meeting:
 - a) Call number:+1 253 215 8782
 - a) Insert Meeting ID: _____



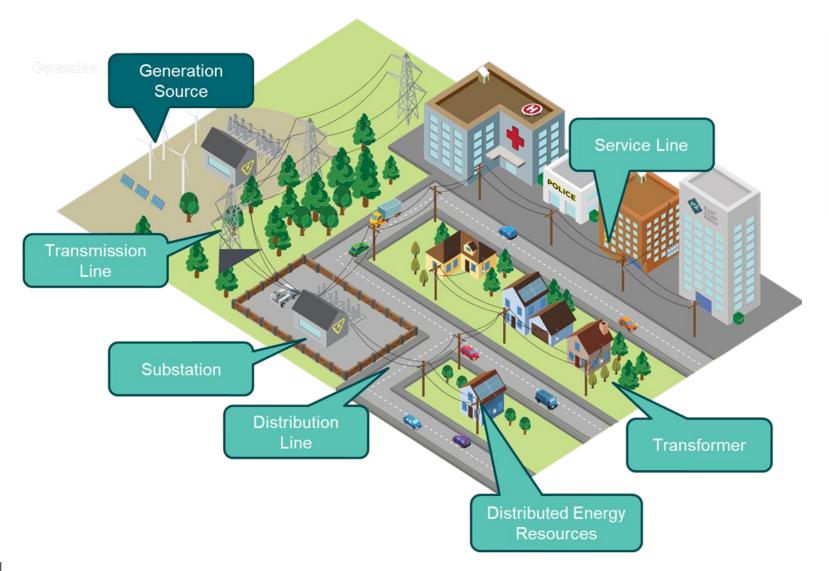
Delivery System Planning - Equity Update

Niecie Weatherby, Manager Gas System Integrity

Corey Corbett, Manager Operations Rate Plan Performance



Energy Delivery System









Previous Engagements With the EAG

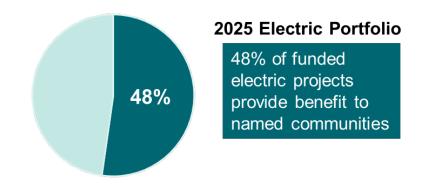
- 2022 General Rate Case Condition 26
 - Engage with the EAG and others to develop new benefits and costs for PSE's investment decision tool for delivery system planning
- Follow-up on previous engagements with the EAG
 - November 14, 2022
 - o March 20, 2023
- Provide update on how EAG feedback has been incorporated











What we learned:

- Clarity on application of benefits for equity advancement
- Projects should directly benefit communities where they are constructed
- Portfolio selection should achieve desired targets for equity advancement

How we applied it:

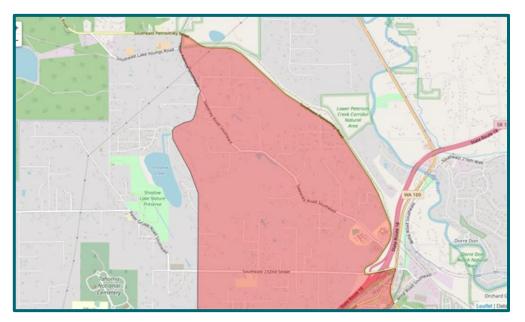
- Calculated equity benefit only for projects in a program that directly impacted the named community
- Assessed equity separate from benefit cost analysis to ensure achievement of desired targets
- Evaluated the number of benefits for all programs



Piloting Community Engagement Framework



Piloting a customer engagement framework to better understand the impacts and customer energy burdens from power outages in the Lake Youngs area to inform the needs for a distribution reliability project.



- Start with online survey and postcards
- Meet with community for input on options
- Incorporate feedback into project needs



Next Steps

2023

 Continue community engagement and refinement of the process

2024

- Update our process with latest energy equity data
- Continue to evolve public and community engagement methodology to support delivery system planning
- Develop 2027 portfolio of projects



Energy Equity Update

Troy HutsonDirector Energy Equity



Background into key equity framework insights from the UTC



Expansion of the public interest standard to include equity:

"The equitable distribution of energy benefits and reduction of burdens to vulnerable populations and highly impacted communities; long-term and short-term public health, economic, and environmental benefits and the reduction of costs and risks; and energy security and resiliency. In achieving these policies, there should not be an increase in environmental health impacts to highly impacted communities."

(PSE GRC Order UE-220066, UG 220067 & UG 210918)

Overarching expectation:

Recognizing that no action is equityneutral, regulated companies should inquire whether each proposed modification to their rates, practices, or operations corrects or perpetuates inequities. Companies likewise should be prepared to provide testimony and evidence to support their position.

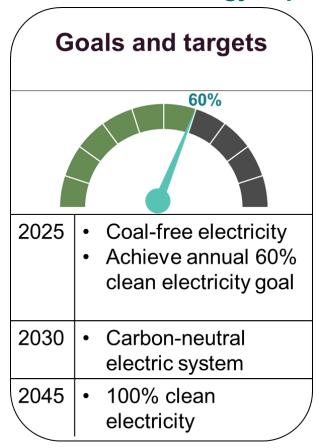
(Cascade Natural Gas GRC UG-210755)

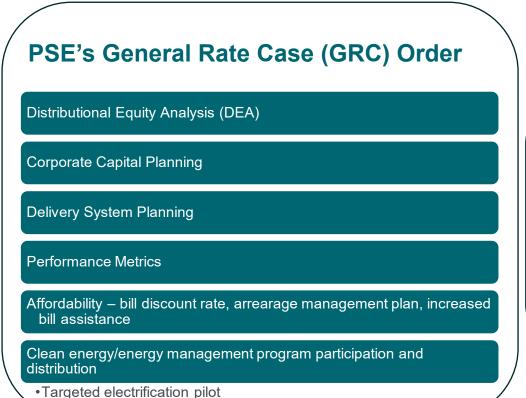


Regulatory



Clean Energy Transformation Act (CETA)
PSE's Clean Energy Implementation Plan (CEIP)





Infrastructure Investment and Jobs Act (IIJA) - Federal

Healthy Environment for All (HEAL) Act - Washington

Climate Commitment Act (CCA) - Washington







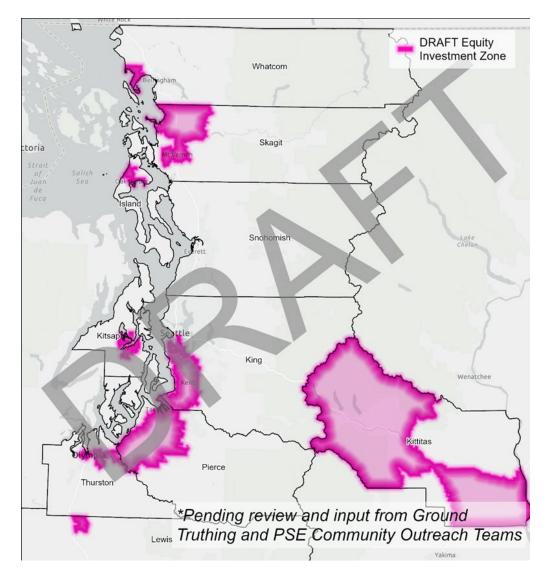
- Developed a plan to secure manual operators on electrical equipment with locks in all substations
- Prioritized substations that serve named communities ranking all substations based on Highly Impacted Communities and Vulnerable Populations – High





Equity Investment Zones





- Prioritize disadvantaged communities
- Concerted effort
- UW CHanGE
- US Forest Service
- UW Civil Rights and Labor History Consortium



Community Engagement



Approach

- Partnerships
- CBOs
- Advisory Groups
- Interested Parties
- WUTC & Staff
- WA Ethnic Commissions

 Clean Energy Benefits

Approach

- IAP2 Aspiration
- Develop an Engagement Guide
- Internal alignment with engagement

 Aspire to reach Empowerment level

Proposed Measures (in development)

outreach events # community organizations reached # priority customers engaged at the Empowerment spectrum level

Key Outcomes

- Distributed to Named Communities
- Expedite distribution to Equity Investment Zones

Key Outcomes

- Meaningful community collaboration
- Resulting in clean energy projects



Distribution of Benefits & Reduction of Burdens



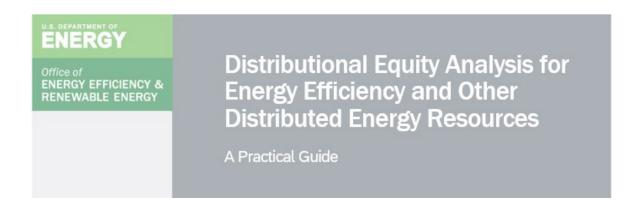






Proposed Measures¹

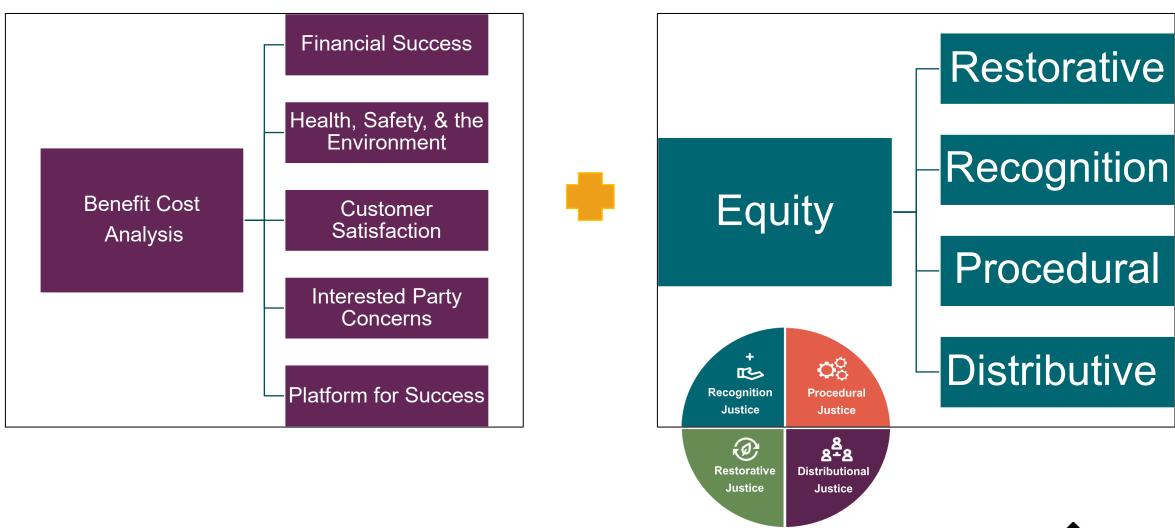
- % participation
- % energy benefits (Energy Efficiency, Demand Response)
- % energy benefits (Distributed Energy Resources)
- % energy benefits (Targeted Electrification)
- % energy benefits (Capital Portfolio)
- Energy assistance \$ distribution, # % participation
- Speed of project implementation in Priority Populations



DEA Practical Guide by Lawrence Berkeley National Laboratory & Synapse Energy Economics



Incorporating Equity and Benefit Cost Analysis



Questions?





Upcoming Meetings

- End of year conversations with individual members
- No formal group meetings in December
- Look for invites for 2024 soon!



Public comment period



Public comment – how to join

The first five individuals will each have 2 minutes to speak.

There are two ways to join.

Option 1: Join the Zoom meeting

- a) Visit https://zoom.us/join
- b) Insert Meeting ID: _____

Option 2: Call-in by phone

- a) Call number: +1 253 215 8782
- b) Insert Meeting ID: _____



Appendix



NEI Reporting Name	Sector	NEI Type	Definition
Administrative costs	C&I	Participant	Participant reported avoided overhead costs associated with invoice processing, parts/supplies procurement, contractor coordination, and customer complaints.
Avoided Illness From Air Pollution	C&I	Societal	Modeled value of avoided particulate matter 2.5 microns or less (PM2.5) from electric power generation associated with electricity generation at power plant. Does not Includes carbon dioxide.
Ease Of Selling Or Leasing	C&I	Participant	Participant reported improved ability to sell or lease property due to increased performance and desirability.
Fires/insurance damage	C&I	Participant	Avoided cost of fires based on insurance estimates
Lighting Quality And Lifetime	C&I	Participant	Participant reported value of improved lighting lumen levels, color, and steadiness.
O&M	C&I	Participant	Avoided time and costs associated with reduced maintenance, parts/repairs, service visits, and system monitoring
Other Impacts	C&I	Participant	Includes rent revenues, employee satisfaction, and other labor costs (defined as other labor at the company not covered in O&M, administrative costs, supplies and materials). Included modeled value of decreased usage of fuel, propane, and other sources.
Product Spoilage/Defects	C&I	Participant	Participant reported value of avoided product losses (e.g. reduced food spoilage in grocery stores).
Productivity	C&I	Participant	Participant reported value of improved workplace productivity resulting from improved rest and sleep related to improved living conditions.
Sales Revenue	C&I	Participant	Participant reported increased sales resulting from improved product.
Supplies and materials	C&I	Participant	Includes changes in the type, amount, or costs of materials, and supplies needed
Thermal Comfort	C&I	Participant	Increased comfort due to fewer drafts and even temperatures throughout the building.
Waste disposal	C&I	Participant	Participant reported costs to remove solid waste and landfill fees (e.g.: fees to dispose of CFLs).
Water/Wastewater	C&I	Participant	Reduced water usage due to efficient equipment.
Avoided Illness From Air Pollution	Residential	Societal	Modeled value of avoided particulate matter 2.5 microns or less (PM2.5) associated with electricity generation at power plant. Does not include carbon dioxide.
Bad Debt Write Offs	Residential	Utility	Reduction in cases of bad debt write offs
Calls to utility	Residential	Utility	Reduction in number of calls to utility from customers
Carrying Cost On Arrearages	Residential	Utility	Reduced carrying cost on arrearages
Ease Of Selling Or Leasing	Residential	Participant	Participant reported improved ability to sell or lease property due to increased performance and desirability.
Fires/insurance damage	Residential	Participant	Avoided cost of fires based on insurance estimates
Health and safety	Residential	Participant	Participant reported costs from time off and lost pay due to fewer missed days of work/school, heat/cold stress, etc., resulting from measures installed in the home.
Lighting Quality And Lifetime	Residential	Participant	Participant reported value of improved lighting lumen levels, color, and steadiness.
Noise	Residential	Participant	Participant reported value associated with reduced amount of outside noise that can be heard inside the home.
O&M	Residential	Participant	Modeled avoided time and costs associated with reduced maintenance, parts/repairs, service visits, and system monitoring
Other Impacts	Residential	Participant	Includes participant impacts not covered in the other categories such as reduced tenant turnover.
Other Impacts	Residential	Utility	Includes rate discounts and price hedging. Includes low income subsidies avoided.
Productivity	Residential	Participant	Participant reported value resulting from improved rest, sleep, and living conditions associated with energy efficiency improvements.
Thermal Comfort	Residential	Participant	Increased comfort due to fewer drafts and even temperatures throughout the building.