Clean Energy Partnership
Q4 EVAC Meeting
November 30, 2022
Agenda

1. Welcome & Introductions (Beth / Patty)
2. Approve Q3 Agenda and Q2 Meeting Notes (Beth / Patty)
3. 2022-2023 Work Plan
   1. Theme 1
   2. Theme 2
   3. Theme 3
   4. Discussion of the approach to organizing working groups
5. Partner Updates
6. Discussion of in-person vs. virtual meetings
2022-2023 Work Plan
Time of Rent Energy Disclosure Visualizations
Recap

• “Time of Rent” Energy Cost Disclosure Ordinance adopted by the City in early 2019
• 5+ Unit Building reporting was launched in Sep 2021 with new utility data aggregation and reporting tools
• 1-4 Unit Building reporting was delayed due to data access and privacy policies
• Utilities and City jointly petitioned the PUC and were granted permission to publicly disclose “Confidence Interval” energy cost data for smaller buildings
• Confidence Interval: “This statistical methodology disassociates customer energy use behavior from the energy consumption of a specific residential property while providing a secure method to protect CEUD and useful qualitative results.”
“Confidence Interval” Example from PUC Filing

Table 1: Illustrative Example of Data Released

<table>
<thead>
<tr>
<th>Property Address</th>
<th>Gas Cost Confidence Intervals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1 Main Street, Minneapolis MN 55406</td>
<td>$27.00  $39.00</td>
</tr>
<tr>
<td>2 2 Main Street, Minneapolis MN 55406</td>
<td>$34.00  $47.00</td>
</tr>
<tr>
<td>3 3 Main Street, Minneapolis MN 55406</td>
<td>$34.00  $49.00</td>
</tr>
<tr>
<td>4 4 Main Street, Minneapolis MN 55406</td>
<td>$38.00  $52.00</td>
</tr>
<tr>
<td>5 5 Main Street, Minneapolis MN 55406</td>
<td>$42.00  $60.00</td>
</tr>
<tr>
<td>6 6 Main Street, Minneapolis MN 55406</td>
<td>$58.00  $83.00</td>
</tr>
</tbody>
</table>
An example of how two properties’ respective confidence intervals may be displayed for comparative purposes follows:

**Property A ($ monthly per unit)**

<table>
<thead>
<tr>
<th>$0</th>
<th>$20</th>
<th>$40</th>
<th>$60</th>
<th>$80</th>
<th>$100</th>
<th>$120</th>
<th>$140</th>
<th>$160</th>
<th>$180</th>
</tr>
</thead>
</table>

**Property B ($ monthly per unit)**

<table>
<thead>
<tr>
<th>$0</th>
<th>$20</th>
<th>$40</th>
<th>$60</th>
<th>$80</th>
<th>$100</th>
<th>$120</th>
<th>$140</th>
<th>$160</th>
<th>$180</th>
</tr>
</thead>
</table>

In this example, Property B (with a lower and non-overlapping confidence interval) is shown to have meaningfully lower energy costs over the previous 24 months than Property A.
Demonstration of Visualization Tool (80% complete)

Minneapolis Rental Energy Cost Report
Pick a rental address below to see how that property’s energy costs from 2020 and 2023 compare to other 1-4 unit properties in the city. "Medium" represents a typical Minneapolis rental property. For any address not shown, complete data is not available.

<table>
<thead>
<tr>
<th>Address</th>
<th>Measure</th>
<th>Yearly or Monthly</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISS WASHINGTON AVE S</td>
<td>per bedroom</td>
<td>Yearly</td>
</tr>
</tbody>
</table>

Energy costs (Electricity + Gas)

- Low: $0 to $200
- Medium: $200 to $600
- High: $600 to $1800

Renters should ask their property owner about which energy bills they are required to pay.

Electric Cost

- $300
- $200
- $100
- $0

Gas Cost

- $300
- $200
- $100
- $0

The largest factors impacting electricity & gas costs at a property are:
- Quality of attic and wall insulation and windows
- Age, efficiency, and energy type of appliances and equipment
- Existing cooling system
- Whether heating is gas or electric
- Electric vehicle charging

Assistance is available for renters and property owners to reduce gas costs.
**EVAC Feedback Requested**

- Should “Total Energy Costs” bar graph be shown against the stoplight colors or 3 different shades of grey?

- Should “Electric Costs” and “Gas Costs” bar graphs label high and low CI values, or can that too easily be misinterpreted as expected max/min (particularly in monthly gas costs)?

- Which is the best comparison to build the tool around?
  - Property #1 versus “Typical” Property
  - Property #1 versus Property #2
Partner Updates