Agenda

• Mayor’s remarks
• Review of process / past year
• Priorities and evaluation
• Next steps
Mayor’s Climate Council: Our Role

Provide high-level, cross-sector leadership to chart a path to reduce Knoxville Community emissions 80% by 2050.

1. Identify and prioritize emission reduction strategies.
2. Discuss opportunities and challenges for proposed actions.
3. Make final recommendations to inform City work plan and long-term vision.
A starting point

Staff started with USDN High Impact Practices (HIPs)

• Draws upon leading Climate Action Plans and studies.
• Effective emission reduction strategies.
• Established by national local sustainability experts and practitioners.

What HIPs are not

• A blueprint to achieve our goals
• 100% comprehensive list of all possible mitigation strategies
• Reflective of unique Knoxville-area priorities
Summary of the past year

• *65* participants

• *Over 35* community organizations

• *20* meetings
  • 6 executive
  • 14 working group

• *508* subject matter surveys (131 EWG, 377 public)
Multi-pronged approach

When the updated work plan is finalized:

1. Public unveiling of plan; Update to City Council on priorities

2. Update City’s website to reflect new plan priorities and additional metrics.
   1. Draw direct connection to budget and funding in a dynamic setting
   2. Highlight partner programs that support those goals
   3. Create and add trackers for additional metrics identified
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Questions about the past year and/or process?
NEXT: Priorities & Evaluation
Centering Equity

• The Equity Working Group:
  • (1) conducted several surveys to gather community input and
  • (2) applied screening questions to proposed strategies

• Three3 delivered to staff a memo summarizing EWG findings and recommendations in April.

• Staff deferred to EWG rankings overall.
  • Strategies “unlikely” to advance equity outcomes were removed with one exception.
  • Minor phrasing changes made (e.g. highly related priorities were combined)
Priorities summarized

1. Potential emission reduction
2. Length of time experts thought it would take to start
3. Potential community benefit / likeliness to advance positive equity outcomes
## Priorities summarized

<table>
<thead>
<tr>
<th>Transportation</th>
<th>Buildings/Energy</th>
<th>Waste</th>
</tr>
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<tbody>
<tr>
<td>3. Accelerate community adoption of EVs</td>
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## Public theme alignment

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<tr>
<td>1. Expand bike/ped facilities (#1)</td>
<td>1. Commercial and multifamily energy reduction (#3)</td>
<td>1. Commercial organic diversion (N/A)</td>
</tr>
<tr>
<td>2. Make investments in public transit (#3)</td>
<td>2. Residential energy reduction (#1)</td>
<td>2. Increase recycling (#2)</td>
</tr>
<tr>
<td>3. Accelerate community adoption of EVs (#2)</td>
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</tr>
<tr>
<td>4. Work with commercial fleets to transition (N/A)</td>
<td>4. Promote opportunistic thermal electrification (#4)</td>
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</table>
To evaluate potential GHG reductions, we utilized available data or expert input. We also used existing studies (e.g., ORNL, PNNL, NREL, EPRI) and individual expert feedback. Growth models for energy consumption/sales and population were employed. Approximately 20 individual iterations were run to explore different scenarios.

### Critical Drivers

1. Electrification of private transportation
2. Decarbonization of energy systems
   1. Electrification without significantly lower carbon electricity (NZC) is inadequate.
### 2050 Scenarios

#### Total CO2e (MT) Emissions Pathways

- **2005**: 4,128,180.00
- **2012**: 3,470,140.00
- **2019**: 4,474,299.00
- **2030**: 4,291,599.43
- **2050**: 5,453,636.11

#### Business-as-usual

- Transportation alone (Moderate)
- Transportation net zero carbon electricity (Moderate)
- Mixed interventions (Moderate)
- Transportation net zero carbon electricity (High)
- Mixed interventions net zero carbon electricity 1 (High)
- Mixed interventions net zero carbon electricity 2 (High)
- TARGETS

#### Higher HD EV, EE, net zero carbon, 90% electrification
Adoption

1. MCC comment through May 22
2. Public unveiling of plan; Update to City Council on priorities
3. Schedule next official meeting. Targeting late Fall for check-in (Nov/Dec 2021)
4. Build out Sustainability website to reflect new plan priorities and additional metrics.
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Does this feel right?

Is there anything you can’t live with that you’re hearing / have seen?

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Thank you!

Climate Council Website:

www.knoxvilletn.gov/climatecouncil/

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