Climate Change Advisory Committee Meeting

December 14, 2021

Tom Wolf, Governor

Patrick McDonnell, Secretary
Agenda

• **Introduction**
• Approval of October Minutes
• Vicinity Energy Presentation/Discussion
• DEP Food Waste Report Presentation/Discussion
• Public Comment
• Break
• 2022 CCAC Meeting Plan
• DEP Updates
• Review of CCAC Bylaws
• New Business
• Next Meeting
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Public Comment (15 min)
Break
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2022 Meeting Planning

Agenda Outline:

• Theme of meeting centered around CAP strategies
• Invited speakers: Subject matter experts and stakeholders
• Highlight local government climate action
• Environmental justice/equity component
• DEP updates
• Overview of next meeting’s agenda
Proposed Themes:
• February 22 - Transportation
• April 14 – Agriculture & LULUCF
• June 23 - Buildings
• August 23 - Electricity Generation
• October 25 - Industrial & Fuel Supply (additional topics)
• December 13 – Climate Adaptation
### GHG Reduction Strategy

<table>
<thead>
<tr>
<th>GHG Reduction Strategy</th>
<th>Expected Implementation Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase fuel efficiency of all light duty vehicles and reduce vehicle miles traveled for single occupancy vehicles</td>
<td>Midterm</td>
</tr>
<tr>
<td>Implement the multi-state medium-and heavy-duty zero-emission vehicle memorandum of understanding</td>
<td>Long term</td>
</tr>
<tr>
<td>Increase adoption of light-duty electric vehicles</td>
<td>Midterm</td>
</tr>
<tr>
<td>Implement a Low Carbon Fuel Standard</td>
<td>Midterm</td>
</tr>
</tbody>
</table>
April 14, 2021

<table>
<thead>
<tr>
<th>GHG Reduction Strategy</th>
<th>Expected Implementation Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use programs, tools, and incentives to increase energy efficiency for agriculture</td>
<td>Near term</td>
</tr>
<tr>
<td>Provide trainings and tools to implement agricultural best practices</td>
<td>Midterm</td>
</tr>
<tr>
<td>Increase land and forest management for natural sequestration</td>
<td>Midterm</td>
</tr>
</tbody>
</table>
### June 23, 2021

<table>
<thead>
<tr>
<th>GHG Reduction Strategy</th>
<th>Expected Implementation Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support energy efficiency through building codes</td>
<td>Near-term</td>
</tr>
<tr>
<td>Improve residential and commercial energy efficiency (electricity)</td>
<td>Near term</td>
</tr>
<tr>
<td>Improve residential and commercial energy efficiency (gas)</td>
<td>Near term</td>
</tr>
<tr>
<td>Incentivize building electrification</td>
<td>Midterm</td>
</tr>
<tr>
<td>Introduce state appliance efficiency standards</td>
<td>Midterm</td>
</tr>
<tr>
<td>Increase distributed on-site solar</td>
<td>Near term</td>
</tr>
<tr>
<td>Take actions to promote and advance C-PACE financing and other tools for Net Zero Buildings and high-performance buildings</td>
<td>Near term</td>
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</tbody>
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## August 23, 2021

<table>
<thead>
<tr>
<th>GHG Reduction Strategy</th>
<th>Expected Implementation Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintain nuclear generation at current levels</td>
<td>Near term</td>
</tr>
<tr>
<td>Create a carbon emissions free grid</td>
<td>Long term</td>
</tr>
<tr>
<td>GHG Reduction Strategy</td>
<td>Expected Implementation Timeframe</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Increase industrial energy efficiency and fuel switching</td>
<td>Near term</td>
</tr>
<tr>
<td>Increase production and use of biogas/renewable gas</td>
<td>Midterm</td>
</tr>
<tr>
<td>Incentivize and increase use of distributed Combined Heat and Power</td>
<td>Near term</td>
</tr>
<tr>
<td>Reduce methane emissions across oil and natural gas systems</td>
<td>Midterm</td>
</tr>
<tr>
<td>Reduce food waste</td>
<td>Near term</td>
</tr>
<tr>
<td>Reduce waste generated by citizens and businesses and expand beneficial use of waste</td>
<td>Near term</td>
</tr>
<tr>
<td>1. Impacts of Increasing Average Temperatures and Heat Waves on Health</td>
<td></td>
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<tr>
<td>-</td>
<td>2. Impacts of Flooding and Storms on Health</td>
</tr>
<tr>
<td>-</td>
<td>3. Impacts of Increasing Average Temperatures on Environmental Justice and Equity</td>
</tr>
<tr>
<td>-</td>
<td>4. Impacts of Flooding on Environmental Justice and Equity</td>
</tr>
<tr>
<td>-</td>
<td>5. Impacts of Increasing Average Temperatures on Forests, Ecosystems, and Wildlife</td>
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<tr>
<td>-</td>
<td>6. Impacts of a Warmer and Wetter Climate on Agriculture</td>
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<tr>
<td>-</td>
<td>7. Impacts of Increasing Average Temperatures on Recreation and Tourism</td>
</tr>
<tr>
<td>-</td>
<td>8. Impacts of a Changing Climate on Built Infrastructure</td>
</tr>
<tr>
<td>-</td>
<td>9. Impacts of Landslides on Built Infrastructure</td>
</tr>
</tbody>
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DEP Updates

DEP Climate Outreach Efforts:

- 9/22/2021 - Philadelphia City Council
- 10/4/2021 - PA Environmental Professionals annual conference
- 10/8/2021 - PML Municipal Leadership Summit
- 10/14/2021 - AQTAC meeting
- 10/20/2021 - 7th Annual Philly Suburbs EAC Summit
- 11/2/2021 - Fox43 interview
- 11/13/2021 - PA Master Naturalist Annual Meeting
- 11/16/2021 - EJAB
- 12/9/2021 - Ag. Advisory Board
Mark Hammond – ZEV Rulemaking
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2021 Regular Meeting Dates:

- **Tuesday, February 22, 2022**
- Thursday, April 14, 2022
- Thursday, June 23, 2021
- Tuesday, August 23, 2022
- Tuesday, October 25, 2022
- Tuesday, December 13, 2022
February 22, 2022 - Transportation:
- Introduction
- Approval of December Minutes
- PennDOT Presentation/Discussion
- Local government climate action – LCAP Participant
- Environmental Justice/Equity (Transportation Related)
- Public Comment
- Break
- Federal Energy/Infrastructure Funding – Dave Althoff
- Other DEP Updates (Suggestions?)
- New Business
- Overview of next meeting’s agenda: April 14