Southeast Michigan Council of Governments
Developing Regional Solutions

SEMCOG
Southeast Michigan Council of Governments
VOLUNTARY PROGRAMS TO ADDRESS OZONE IN SOUTHEAST MICHIGAN

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Environmental Planner
What is SEMCOG?

Association of over 170 local governments
- Transportation
- Infrastructure
- Environment
- Economic Development
- Bicycle and Pedestrian
- Parks and Recreation
- Regional Forecasting
Air Quality in Southeast Michigan

• Improving air quality
• Nonattainment for Ozone
• Developing improvements for the region
What are we doing to improve air quality?
Southeast Michigan Air Quality Study Group

SEMAQS

- Formed in the 1990s
- Brings together stakeholders from industry and government
- Works to achieve NAAQS standards
State Implementation Plan (Ozone)

- Partner with EGLE to attain & maintain national standards
- Analyze available data to:
  - Identify source of problem
  - Develop cost-effective attainment strategy
- Involve stakeholders early on
  - Air Quality Technical Group
  - Task Force
2045 Regional Transportation Plan

- **2045 RTP**
  - 20-year horizon
  - $35 billion; 174 projects through 2045

- **Transportation Improvement Program**
  - 4-year horizon
  - 2017-2020
  - $4.4 billion
Integrate Environmental Protection into the transportation system, enhancing community health and increasing the overall resiliency of infrastructure.

Air Quality

- Enhance Ozone Action Public Awareness
- Prioritize Congestion Mitigation and Air Quality Programs
- Influence Air Quality Conformity Strategies
- Work Towards National Ambient Air Quality Standards
Transportation Conformity

Table 3: Results of 8-Hour Ozone Conformity Analysis - Budget Emissions Test

<table>
<thead>
<tr>
<th>Analysis Year</th>
<th>Emissions (tons/day)</th>
<th>Regional Summer Weekday VMT (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VOC</td>
<td>NO$_x$</td>
</tr>
<tr>
<td>Conformity Budget</td>
<td>106</td>
<td>274</td>
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<tr>
<td>2020</td>
<td>57.1</td>
<td>92.6</td>
</tr>
<tr>
<td>2025</td>
<td>41.7</td>
<td>56.3</td>
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<tr>
<td>2035</td>
<td>23.9</td>
<td>27.8</td>
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<td>2045</td>
<td>21.4</td>
<td>25.2</td>
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</table>
Congestion Mitigation & Air Quality Program

• Funds projects that help attainment or maintenance of NAAQS Standards
Congestion Mitigation & Air Quality Program

- CMAQ projects eligible for funding:
  - improve transit service;
  - improve traffic flow;
  - support ride sharing;
  - Create new bicycle and pedestrian facilities for commuters.
CMAQS Projects

Number of CMAQ Projects from 2010 - 2018

- Bicycle facilities
- Anti-idling technologies
- Roundabout
- Ozone Action
- Diesel retrofit
- Transit Capital
- Alternative Fuels
- Turn lanes only
- Turn lanes and signals
- Traffic Operations Center
- Signals
- Rideshare
- New of expanded transit routes
- Bus Replacement

0 10 20 30 40 50 60
SEMCOG’s Ozone Action Program

• Gets the public to take action to improve air quality
• 26th year of the program
• Taking action on ozone action days
SEMCOG’s Ozone Action Program

• Actions:
  – Delay lawn mowing
  – Walk, bike, carpool or use transit
  – Avoid refueling during daylight hours
  – Avoid vehicle idling (drive-thru facilities)
SEMCOG’s Ozone Action Program

- About 96% of respondents recognize the term “Ozone Action”
- About 60% of respondents recognized the ozone action program
SEMCOG’s Ozone Action Program

- Program Identification Source:
  - Email notification
  - Newspaper
  - Social Media
  - Television
  - Radio
  - Other
  - SEMCOG's Website
  - Freeway Message Signs
Summary

• Continued air quality improvements
• Pollution from cars and trucks continues to decline
• SEMCOG focused on cost-effective strategies to attain/maintain standards
Questions?