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<th><strong>Docketed Date</strong></th>
<th>5/6/2019</th>
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<td><strong>Docket Number</strong></td>
<td>19-IEPR-06</td>
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<tr>
<td><strong>Project Title</strong></td>
<td>Energy Efficiency and Building Decarbonization</td>
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<td><strong>TN #</strong></td>
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<tr>
<td><strong>Document Title</strong></td>
<td>South Coast AQMD Efforts on Energy Efficiency</td>
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<tr>
<td><strong>Description</strong></td>
<td>Presentation by Kelly Trainor Gamino with South Coast Air Quality Management District at April 30, 2019 workshop</td>
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<tr>
<td><strong>Filer</strong></td>
<td>Stephanie Bailey</td>
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<td><strong>Organization</strong></td>
<td>California Energy Commission</td>
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<tr>
<td><strong>Submitter Role</strong></td>
<td>Commission Staff</td>
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<td><strong>Submission Date</strong></td>
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South Coast AQMD Efforts on Energy Efficiency
California Energy Commission
Energy Efficiency Plan Workshop

April 30, 2019

Kelly Trainor Gamino
Air Quality Specialist
South Coast Air Quality Management District
South Coast Air Quality Management District

Local air pollution control agency for all of Orange County and the urban portions of Los Angeles, Riverside and San Bernardino counties

- Largest of the 35 local air agencies in CA and in the U.S.
- 17 million residents

Responsibilities

- Regulate emissions from stationary sources
- Develop and implement plans to meet national air quality standards
- Permit and inspect 28,400 affected businesses
- Administer over $100 million of incentive funding annually
Our Challenge

The Los Angeles area has historically suffered from some of the worst air quality in the country

Los Angeles 2017

We’ve made significant progress, but still suffer from poor air quality
- Worst ozone in the country
- Second-worse fine particulate matter (PM$_{2.5}$)
## Upcoming Deadlines to Attain National Standards

<table>
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<tr>
<th>Standard</th>
<th>Concentration</th>
<th>Classification</th>
<th>Attainment Year</th>
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<tbody>
<tr>
<td>2008 8-hour Ozone</td>
<td>75 ppb</td>
<td>Extreme</td>
<td>2031</td>
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<td>2012 Annual PM2.5</td>
<td>12 ug/m³</td>
<td>Moderate/Serious</td>
<td>2021/2025</td>
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<tr>
<td>2006 24-hour PM2.5</td>
<td>35 ug/m³</td>
<td>Serious</td>
<td>2019</td>
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<tr>
<td>1997 8-hour Ozone</td>
<td>80 ppb</td>
<td>Extreme</td>
<td>2023</td>
</tr>
<tr>
<td>1979 1-hour Ozone</td>
<td>120 ppb</td>
<td>Extreme</td>
<td>2022</td>
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Ozone and PM\textsubscript{2.5} Air Quality Trends in the South Coast Air Basin
2016 Air Quality Management Plan (AQMP)

Regional blueprint for achieving federal air quality standards

2016 AQMP Objectives:

- Regulatory measures
- **Incentive-based programs**
- **Co-benefits from existing GHG reduction programs**
- Further deployment of cleaner technologies
- Reduction from State and Federal mobile sources
Basin Total NOx Emissions

Sources of NOx (2012)
522 Tons per Day

Significant NOx reduction still needed for ozone/PM 2.5 attainment
Key Types of Air Pollution

- **Greenhouse Gases**
  - Global

- **Criteria Pollutants**
  - Regional

- **Toxic Air Contaminants**
  - Local
Share of Energy Use in South Coast Basin

- Transportation: 59%
- Residential: 16%
- Commercial: 12%
- Industrial: 10%
- Other: 3%
2016 AQMP Energy Efficiency and Climate Measures

- ECC-01 Co-benefits from GHG programs
- ECC-02 Co-benefits from residential and commercial building energy efficiency measures
- ECC-03 Incentives for reducing existing residential building energy use
- CMB-02 Commercial and multi-family residential appliances replacements
- CMB-04 Restaurant burners and residential cooking replacements
AB 1318 established a mitigation fund from fees paid by CPV Sentinel for the construction and operation of a new power plant in Desert Hot Springs. Funded projects are required to be in close proximity to the power plant and at least 30% of funds spent in EJ areas.

AB 1318 funds were distributed to 26 emission reduction projects in Coachella Valley for a total of approximately $51M, including:

- Over 1,000 homes weatherized with insulation
- A dozen solar projects at various locations
In January 2019, South Coast AQMD awarded approx. $47M from special revenue funds to 26 mobile and stationary source projects. Additional consideration was given for projects with GHG co-benefits.
SCAQMD staff is developing an emissions tool to estimate changes in criteria and GHG emissions and costs associated with replacement of residential appliances with low- or zero-emitting appliances.

- Comprehensive, yet user-friendly tool
- Intuitive workflow with extensive embedded documentation
- Level of complexity determined by the user
- Final stage of development
- Expected to be completed in Summer/Fall 2019
Moving Forward

Energy Efficiency measures identified as a viable strategy in 2016 AQMP

- Continue to implement emission reduction projects
- Develop guidelines for stationary source incentive projects
- Develop new incentive programs
- Maximize co-benefits for both criteria pollutants and greenhouse gases
Thank you!

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