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<th><strong>Docket Number:</strong></th>
<th>20-IEPR-02</th>
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<td><strong>Project Title:</strong></td>
<td>Transportation</td>
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<td><strong>TN #:</strong></td>
<td>234039</td>
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<td><strong>Document Title:</strong></td>
<td>Presentation - South Coast AQMD Near-Zero Emissions and Biomethane the Need for NOx Reductions</td>
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<tr>
<td><strong>Description:</strong></td>
<td>S1 2D.Matt Miyasato, South Coast Air Quality Management District</td>
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<td><strong>Filer:</strong></td>
<td>Raquel Kravitz</td>
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<td><strong>Organization:</strong></td>
<td>South Coast AQMD</td>
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<td><strong>Submitter Role:</strong></td>
<td>Public Agency</td>
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South Coast AQMD
Near-Zero Emissions and Biomethane
the Need for NOx Reductions

Matt Miyasato, Ph.D.
Chief Technologist
CalTrans Traffic Sensor Data

- **HD Traffic Flow Relative to Typical Conditions [%]**
- **February** to **May 2020**

- **Graph Details**:
  - Light blue: Hourly heavy-duty flow
  - Orange: Weekly moving average
NOx Emissions Sources

- Heavy Duty Diesel Trucks
- Off-Road Equipment
- Ocean Going Vessels
- Cars/Light-duty Trucks/SUVs/Motorcycles
- Industrial Fuel Combustion
- Aircraft
- Trains
- RECLAIM
- Commercial Harbor Crafts
- Residential Fuel Combustion
- Buses
- Recreational Boats and Vehicles
- Medium duty and Heavy duty Gas trucks
- Other Stationary

Baseline 2023: 269 tons per day
Baseline 2031: 238 tons per day
48% decrease
60% decrease
Near-Zero to Zero Emissions

Cummins
Westport

Volvo

NREL

South Coast AQMD

NATIONAL RENEWABLE ENERGY LABORATORY

DAIMLER