

# PANELISTS



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# URBAN **AIR** INITIATIVE

Improving Our Air with Ethanol

[www.FixOurFuel.com](http://www.FixOurFuel.com)

## **Reducing Ozone From Mobile Sources**

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## Mobile Source Emissions and Ozone

### Liquid Fuels

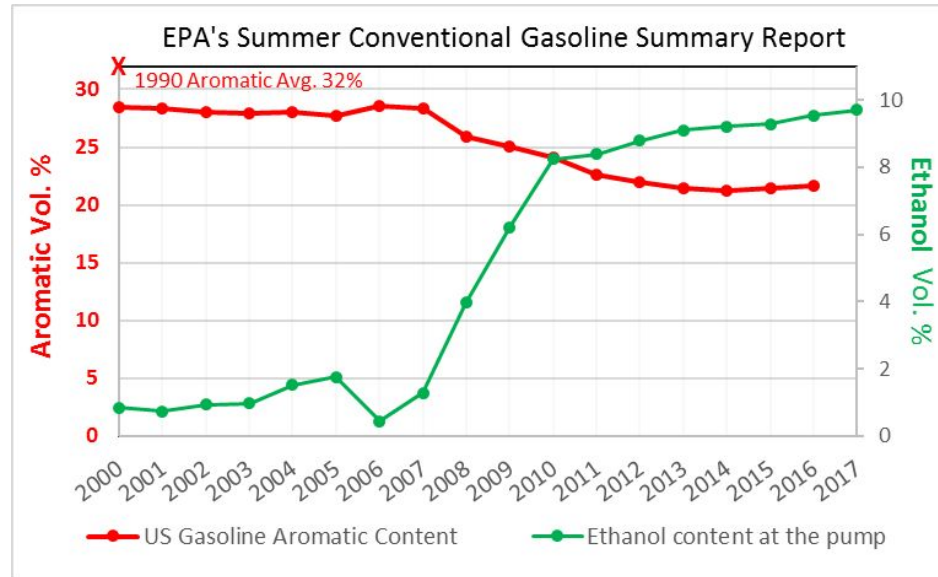
- Roughly 30% for VOC contributions\*
- Roughly 55% for NOx contributions\*

### Aromatics in Fuel

- Aromatics make up 25% of gasoline and diesel, yet they contribute up to 50% of ozone formation from mobile sources.
- Aromatics are added to gasoline to boost octane (toluene, xylene etc.)
- Aromatics are a key contributor for toxic emissions, including PM 2.5

## The Role of Ethanol and Ozone

- Aromatics used to be a lot higher, but the addition of ethanol in gasoline helped reduce aromatics and ozone.
- Almost all US gasoline currently contains 10% ethanol.
- Higher ethanol blends, such as E15 and E30 would further reduce aromatics.



## Strategy to Reduce Ozone from Mobile Sources

### Use Higher Blends of Ethanol

- Increasing levels of ethanol in gasoline reduces the precursors to ozone formation.
- Ethanol increase octane, which also reduces CO<sub>2</sub>, CO and particulate emissions.

### Update EPA Science

- Emissions testing needs to match real world market fuels.
- Ozone is not the only factor that impacts air quality and public health, science and regulations need to reflect that.

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## Thank You

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