

# OTC Committee Meeting

April 11<sup>th</sup>, 2017

Washington, DC

## Mobile Source Committee Update



# Committee Charge

- Goal: To identify potential strategies for consideration at the 2017 Fall Meeting
- Strategies Include:
  1. Provide a Report on Aftermarket Replacement Catalysts
  2. Develop a Recommendation on the Top 3 Mobile GN SIP Strategies
  3. Develop Recommendations on Regional Strategies to Reduce Idling
  4. Report on EPA's Progress on National Strategies Including MSTRS Port Recommendations and Heavy-duty Diesel Vehicle NO<sub>x</sub> Standards
  5. Report on State Progress
  6. Additional Transportation Strategies

Bolder topics will be discussed today

# Anti-Idling

Reducing unnecessary idling could lead to large emission reductions

OTC has developed several tools for the states

- Nonroad Idling Model Rule
- Idling Best Practices Document

MSC is considering several potential options:

- Truck Stop Electrification (TSE) expansion
- Electrified Reefers (eTRU)
- Freight Idling
- Idling reduction commitments
- Regional education efforts
- Regional enforcement strategy

Successful strategies will need to borrow from several options



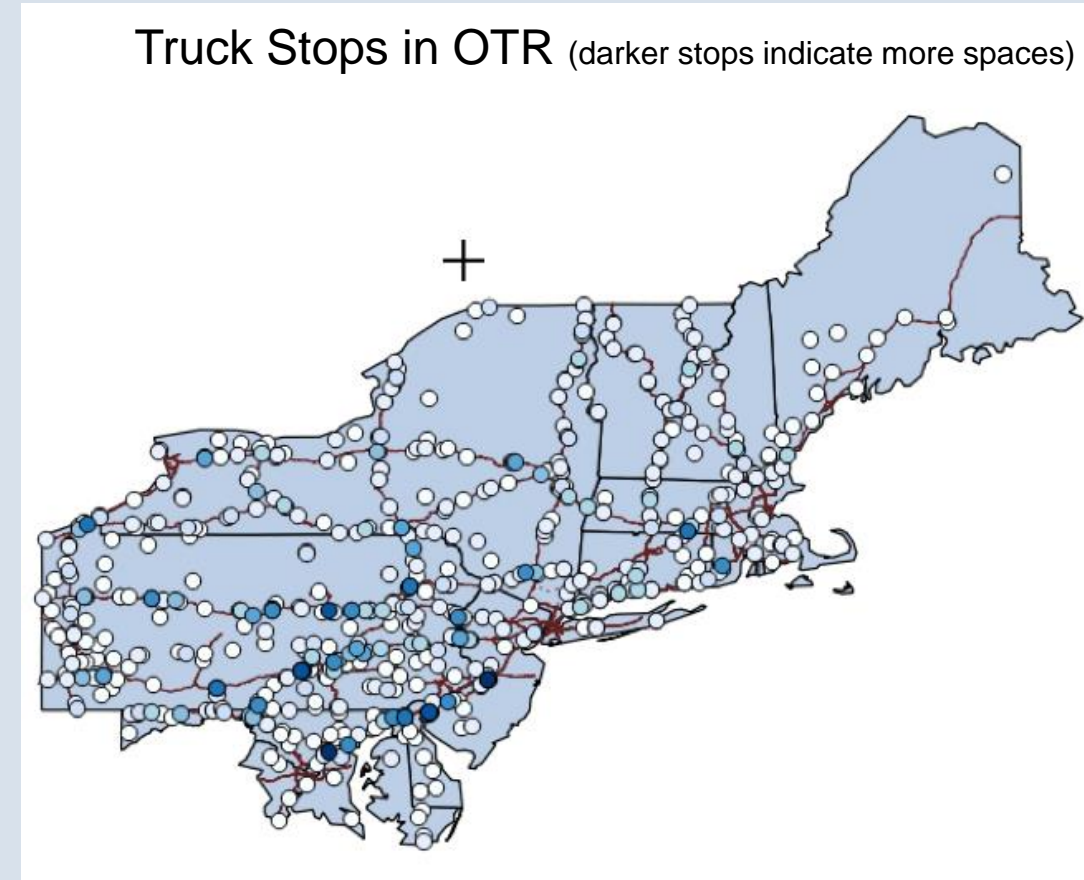
# Anti-idling: Truck Stop Electrification (TSE)

TSE suffers currently from multiple hurdles to adoption

1. Small network with lots of gaps
2. Existing spaces blocked by idling trucks
3. Truckers can't guarantee a space is available
4. Issues with who is saving money from fuel reductions vs paying for electricity

Strategy could be a multi-faceted approach

1. Fill in gaps along major corridors & require new truck stops electrify through code
2. Enforce only electric use at electrified spaces
3. Phone app to reserve electric spaces
4. Still working on #4





# Anti-idling: Electrified Reefer Trucks (eTRU)

- Approximately 65,000 Reefers (aka Trailer Refrigeration Units (TRUs)) in the OTR
- Many TRUs operate at a home base and make deliveries
- Can idle between 1 and 12 hours per day, though on average ~ 4 hours
- If electrification not available, idling can be needed for food safety
- Since most idling occurs at home base easier to overcome hurdles with electrification:
  1. Known capacity needed at home base
  2. Will not need to deal with outside trucks
  3. Company owns the fleet and reaps the savings

Strategy could be multi-faceted:

1. Spread awareness of savings with fleet owners
2. Stop overnight and peak food demand (e.g., 4<sup>th</sup> of July, Thanksgiving) idling
3. Potentially adopt regulations that limit TRUs to 5 minutes by 2025



# Anti-Idling: Freight

- Two OTC members have locomotive anti-idling regulations
- Delaware is attempting to regulate idling from locomotives as well
  - Surface Transportation Board (STB) preemption or not?
  - DE STB decision
- No updates since last meeting
- Also looking at technology based solutions



# Anti-idling: Regional Education

Education of enforcement officials is important since they often aren't aware of idling requirements

- Simplifying and standardizing exemptions could assist regional education
- Delaware is attempting a process that could serve as a model

Education of owners/operator important as well

- Focusing on cost savings might be more important than air pollution
- For instance educate eTRU fleet owners about cost savings of electrifications

Regional approach has yet to be defined

# Anti-idling: Other Areas

## Idling Reduction Commitments

- The challenges with adequately measuring would likely hamper this and it is not recommended at this point

## Regional Enforcement

- Regional education of enforcement officials must come first



# Success Stories

**Goal:** Update this source for OTC states of successful projects to reduce emissions from mobile sources

- First published in 2012 and updated in 2014
- Projects involve Marine, Rail, Bus, and Truck categories
- Though these projects can be PM focused, many projects provide NOx benefits
- Funding Sources:
  - DERA (Diesel Emissions Reduction Act)
  - ARRA (American Recovery & Reinvestment Act)
  - CMAQ (Congestion Mitigation and Air Quality)
  - SEP (Supplemental Environmental Programs)

# Questions

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