

Recharge America: Zero Emissions Trucks and the Low Carbon Future

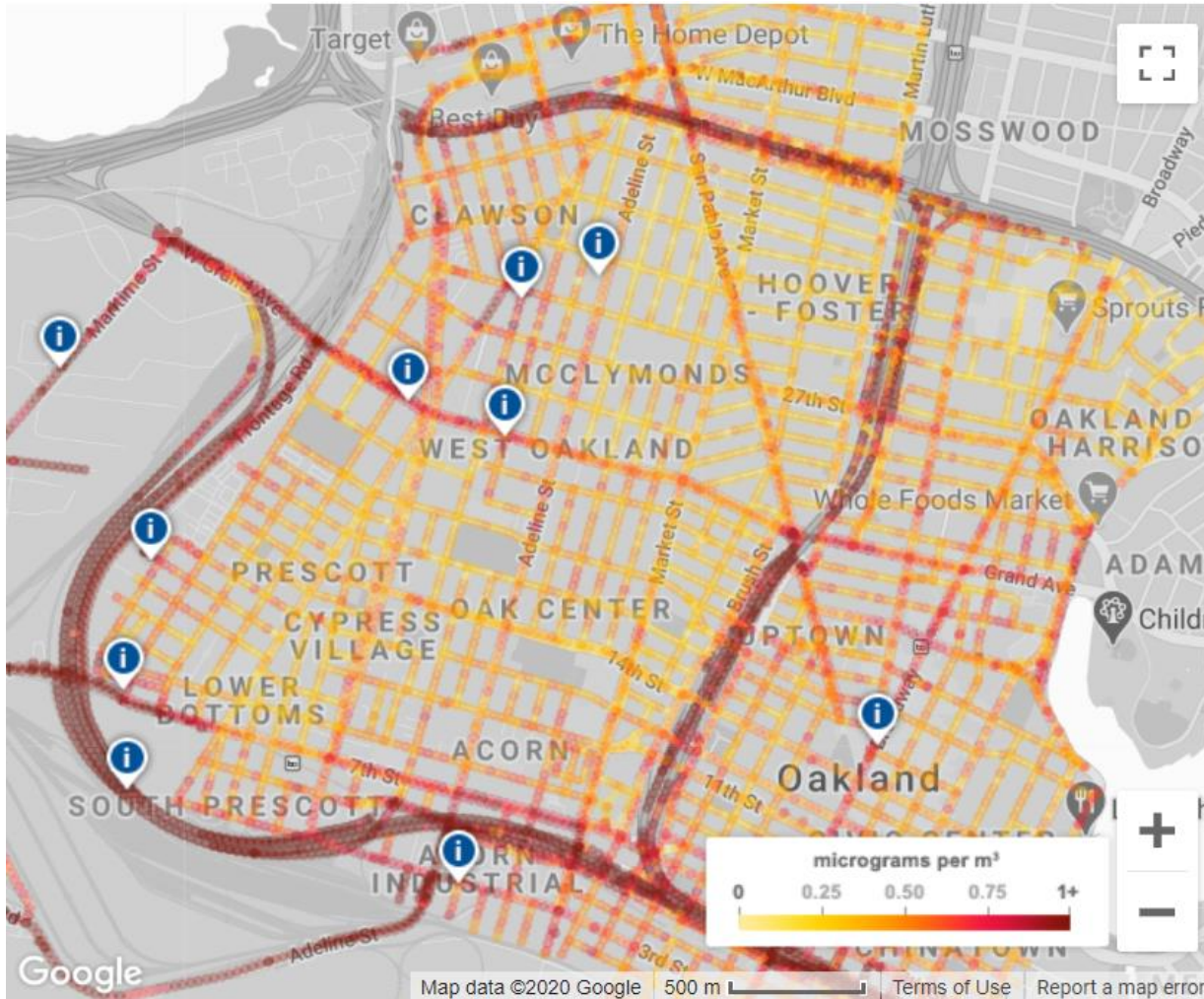
September 21, 2020

Tim O'Connor

Senior Director, Energy Transition Strategy



Medium and heavy duty trucks and buses have both global climate and local health impacts



FACT: Delivery trucks and tractor trailers...

- 4% vehicles on road
- 7% of all GHG emissions in the U.S.
- Release nearly half of the NO_x emissions and nearly 60 % of the fine particulates
- Impacts disproportionately distributed into areas with industrial operations and freeways

Oakland, CA (2016)

Medium and heavy duty truck and bus issues not isolated to U.S. – and neither can be the solutions



London, U.K. (2019)

IPCC: Limiting warming to 1.5°C requires global net human-caused CO₂ to fall by about 45 percent from 2010 levels by 2030, and be 'net zero' by 2050.

FACT: Diesel pollution

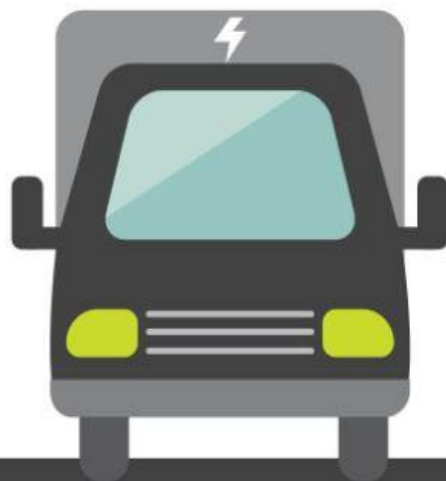
- Responsible for 385,000 deaths globally in 2015
- Diesel use projected to increase in the US and globally due to increase in shipping

To stabilize the climate and improve air quality,
30% of trucks and buses sold in 2030 must produce

----- *zero emissions* -----



Regional Haul: **25%**



Work Trucks: **40%**



School Buses: **50%**

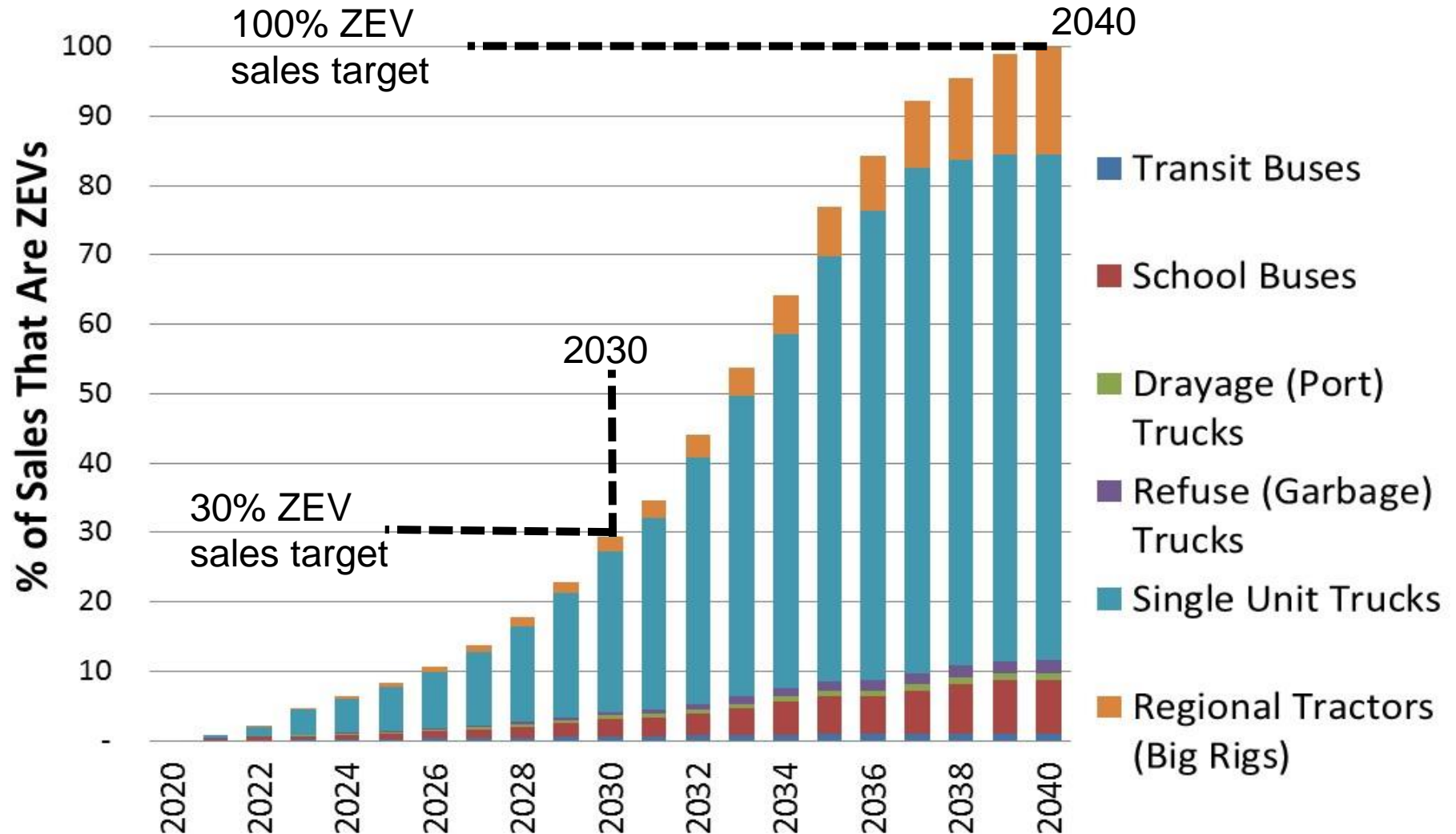


Transit Buses: **80%**

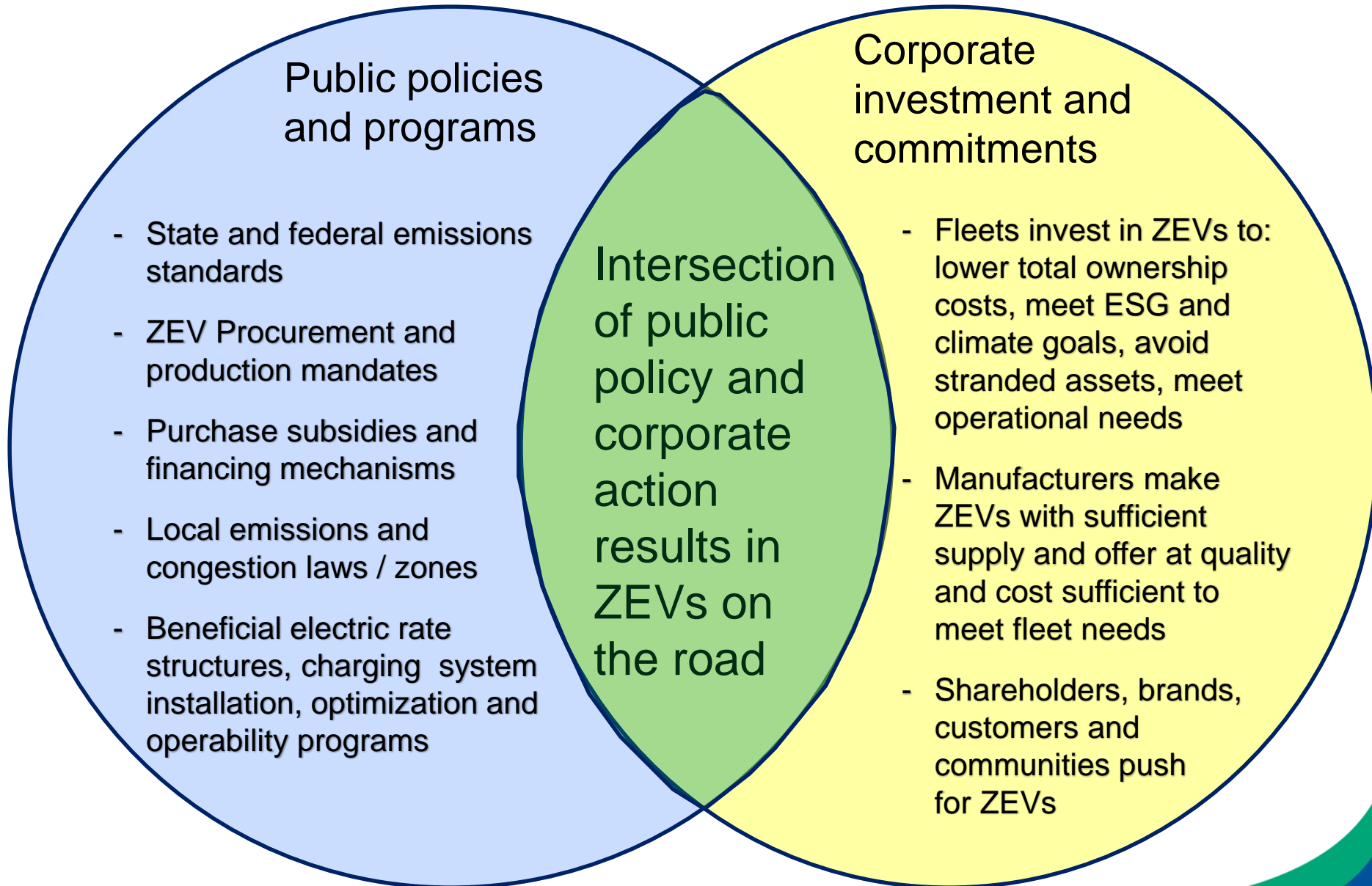


Increasing the percentage of electric vehicles
sold across these categories can get us there.

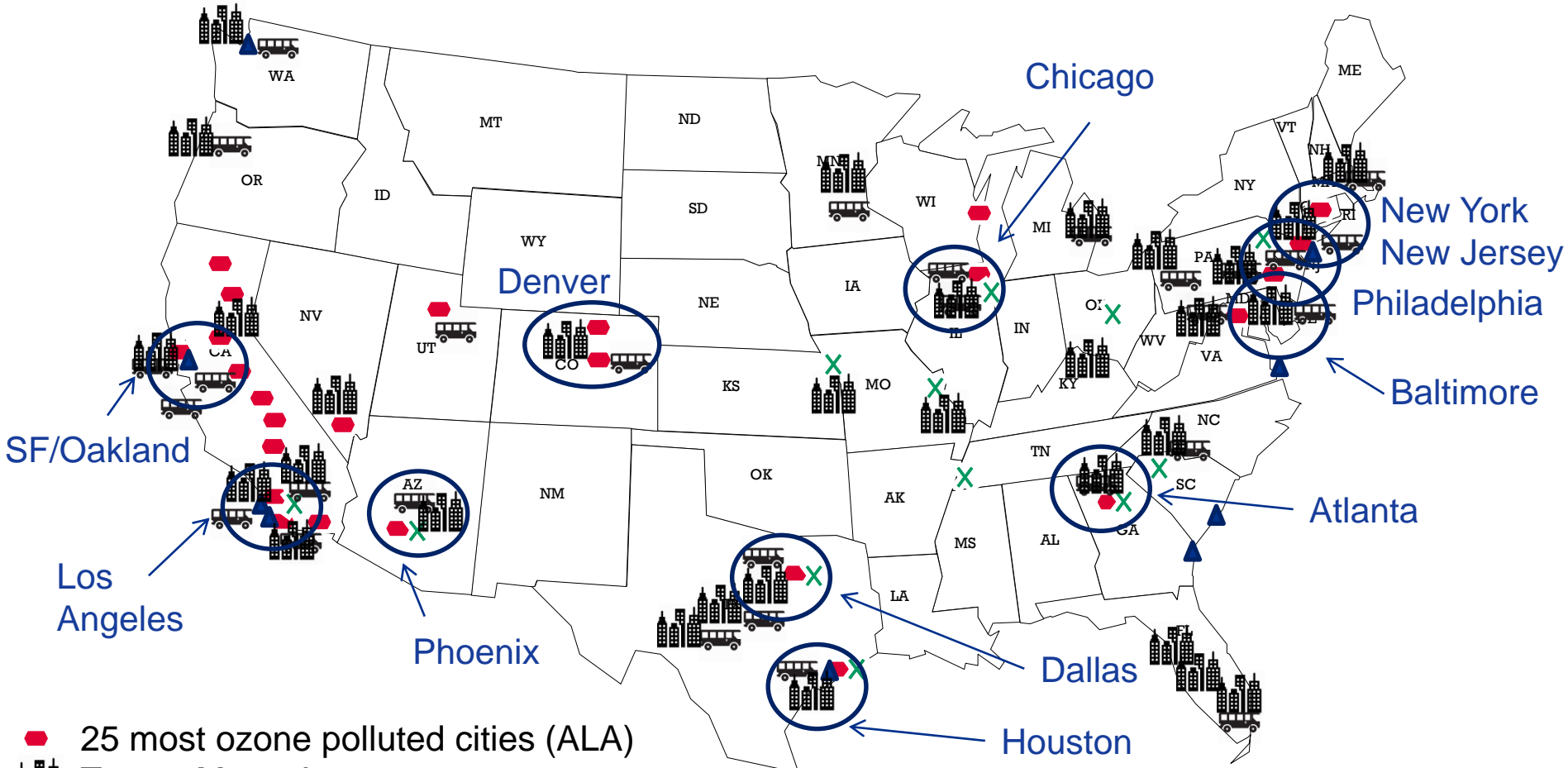
Example of Annual Zero Emissions Truck and Bus Sales Growth to Meet 100% ZEV goal by 2040





Drivers of Transformational ZEV Deployment



Multifactor Assessment of U.S. Regions With Highest Potential for Large Scale ZEV Deployment



- 25 most ozone polluted cities (ALA)
-  Top 30 Metro Area
- ▲ Top 10 Marine port
- X Major Intermodal Railyard
-  Top 30 Transit Agency (fleet size)

State / federal policy, plus corporate investments and commitments needed for this to be real



Tim O'Connor
toconnor@edf.org
916.549.8423

Jason Mathers
jmathers@edf.org
617.406.1806

Visit our website below for more info:
www.edf.org/

