Carrying the Load: Electrifying Heavy Trucks and Buses

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Per-Mile Fuel Life Cycle GHG Emissions for Electric Buses

Comparative CO₂e Emissions (40-foot bus):
- Diesel: 2,680 g/mi
- Natural gas: 2,364 g/mi
- Electric bus (US average grid): 1,078 g/mi
Getting zero-emission trucks and buses on the road

1. Vehicle availability
   (e.g., R&D, manufacturer requirements)

2. Purchase incentives
   (e.g., tax credits, point-of-sale rebates)

3. Infrastructure and sensible, fair electricity rates
   (e.g., utility programs)

4. Fleet adoption
   (e.g., purchase mandates, transit agency commitments)
Thank You
Supplemental Slides
Income and race are highly correlated with exposure to air pollution

Source: US EPA EJSCREEN
Models of Utility Investment in EV Charging Infrastructure

- Business-as-Usual Investments
- Make-Ready Investments
- End-to-End Utility Ownership
- Utility Incentives

Utility Investment
Site Host Investment
Utility Incentive Funding