Fossil Fuels In Maine’s Transportation Sector
Barriers and Opportunities

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October 19, 2017
CO$_2$ Emissions by source category (2013)

- **Energy Consumption**: 89%
- **Industrial Processes**: 5%
- **Agriculture**: 2%
- **Waste**: 4%
CO₂ Emissions from fossil fuel and waste combustion by sector (2013)

- Transportation: 54%
- Electric Power: 9%
- Residential: 14%
- Commercial: 11%
- Industrial: 12%
Energy consumption in the transportation sector

- Motor Gasoline: 68%
- Distillate: 22%
- Biofuels: 4%
- Jet Fuel: 5%
- Natural Gas: 1%
Current regulations

• Light duty vehicle standards
• Medium duty vehicle standards
• Heavy duty vehicle standards
• Federal standards
• California vehicle standards
• Section 177 states
  (CT, DE, GA, ME, MA, NC, NJ, NM, NY, OR, PA, RI, VT, WA)
California has requirements for:

- Fleet NO$_X$ + organic emissions
- Fleet greenhouse gas emissions
- Fleet zero emission vehicles
- Compliance: banking and trading

Light duty opportunities

- Volkswagen settlement
- Electric charging stations
- Alternative fuel vehicles

Barriers:
- Charging
- Range
Alternative fueling stations

- Electric Vehicle Charging Station
- LPG Station
Heavy duty opportunities

• SmartWay
• Diesel Emission Reduction Act (DERA)
• Alternative fuel vehicles
• Electric vehicles
• Barriers

Image source: https://www.youtube-nocookie.com/embed/s9E6I49iPIE?rel=0
Alternative fueling stations

No fueling stations for:
- Compressed Natural gas
- Ethanol
- Hydrogen
- Liquefied Natural Gas

Biodiesel Fuel Station
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