

Mobile Source Technical Review Subcommittee  
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**Perspectives on the Heavy-Duty Vehicle  
GHG/FE Program**

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# Truck and Engine Manufacturers Association

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- Includes leading manufacturers of heavy-duty on-highway engines and trucks
- Progressive Industry
  - Long history of cooperative and collaborative work with government and other stakeholders
  - Has achieved significant reduction in criteria emissions; desire to build on that success
  - Has promoted systems approach: improved engine technology; ultra-low sulfur diesel fuel; aftertreatment devices
- Support for historic U.S. GHG/FE Rule

# EMA Rulemaking Principles

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- Work with regulators (and other stakeholders) to improve air quality and fuel efficiency through cost-effective, technologically feasible measures while maintaining customer satisfaction
- Promote/maintain global alignment of standards, programs, and procedures

# Characteristics of the U.S. GHG/FE Program

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- Increases the use of existing technologies to achieve significant GHG emissions and fuel consumption reductions
- Recognizes the commercial needs of the trucking industry
- Incentivizes the early introduction of advanced technologies
- Recognizes the complex and highly customized nature of the industry
- Avoids disruption of the existing marketplace; or creating unintended consequences
- Provides [leadtime], stability, certainty, and compliance flexibility
- Provides a path to a global solution to a global problem

# Why We Support Reduced GHG/Improved FE

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- Aligns with our customers' needs and interests
- Promotes sale of new vehicles; encourages fleet turnover
- Improves energy independence and security
- Provides environmental benefits
- Reduces costs of goods movement
- Helps keep trucking competitive with other modes of transportation

# Importance of Alignment/Harmonization

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- Insures consistent treatment of product
- Recognizes international nature of industry and market
- Promotes level, competitive playing field in the world marketplace
- Helps prevent drain on limited human and capital resources
- Avoids unnecessary costs
- Minimizes potential for localized limitations on product offerings
- Maximizes air quality and fuel efficiency benefits
- Promotes the free flow of commerce and goods movement in North America (and around the world)

# Elements of Alignment/Harmonization

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- Test and measurement procedures
- Emission limits (including fuel efficiency requirements)
- Compliance flexibilities
- Compliance demonstration and enforcement
- Fuels, diesel exhaust fluid and lubricants
- Safety
- Noise

# Issues Ahead

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- Need for North American (and worldwide) regulatory alignment
- Must avoid too frequent and multiple regulatory implementation steps
- Short leadtime
- Yet to be determined vehicle certification protocols (and that segment has no certification experience)



# Desired Goals

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- Certification simplicity and certainty
- Customer acceptance
- Single, uniform exhaust emission and fuel efficiency requirements for Canada, U.S. and Mexico
- Aligned Worldwide GHG/FE Program
- Improved fuel quality standards throughout the world
- Pursue additional GHG reduction/FE improvement opportunities (e.g. trailers, operational efficiencies)
- At appropriate time, pursue opportunities for potential next phase program