Trucking Industry

Sustainability & Environmental Strategies

October, 2008

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Prepared by:
Art Ballah
Colorado Motor Carriers Association
4060 Elati Street
Denver, CO 80216
artballah@aol.com
Colorado Motor Carriers Association (CMCA)

Position Statement on Sustainability & Environment
(Sustainability/Environmental Core Value)

Sustainability has both economic and environmental elements. It promotes solutions that do not diminish resources for future generations and are economically viable over the long term. Environmental measures seek to preserve, restore, and enhance environmental health, ecosystems, and community viability.
Environmental Sustainability Efforts by the Trucking Industry

Art Ballah
Colorado Motor Carriers Association

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Overview of the Colorado Motor Carriers Association (CMCA)

- Over 600 companies and growing with members in every area of the State of Colorado
- Member companies include large corporations such as UPS and FedEx down to very small companies of 5 or less employees
- Member companies employ over 80,000 people within the state
- Provide a wide range of training and other educational opportunities
- Represent Colorado trucking interests at the local, state, and national levels

September, 2008
Good Stuff - Trucks Bring It

From diapers to satellite dishes, virtually everything we own, everything we eat, everything we wear, every material that goes into building our homes and offices – all of it comes to us thanks to trucks and truck drivers. Last year, trucks transported more than 7.7 billion tons of freight.

September, 2008
Facts About Trucking in Colorado

- 80% of the manufactured freight commodities are transported by truck
- 81% of the communities in the Colorado are exclusively served by truck
- Trucking has a multiplier effect of three to four times

September, 2008
National Freight Forecast 1998 - 2008

- Truck Tonnage will increase by 33% over the next 12 years (2.6% annual growth)
- Air Freight will grow the fastest, increasing by over 70% (5.1% annual growth)
- 64% of all freight will move by truck in 2015

September, 2008
Impact of E-Commerce on Freight Movement

- E-Commerce is the most rapid growing freight segment
- "Point-Click-Truck"
- Virtually all of this traffic will travel by truck at some point in the trip from shipper to consumer/business

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Trucks and the Environment

- Heavy duty truck manufacturers have made incredible strides in reducing emissions since 1990 and more reductions are on the way.
- Trucks make up a small % of the state’s emissions. Of truck emissions pre-1990 vehicles may be responsible for up to 50% of truck diesel emissions yet make up less than 10% of vehicle population.
- Current EPA Standards require a sulfur standard of 15 ppm vs. 500 ppm previously.
- Trucks are continuing to get cleaner due to newer technologies and cleaner fuels.
- Fuel efficiency has increased > 30% since 1982.

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Diesel Contribution to Overall Emissions

Nitrogen Oxides
- All Sources: 1,853
- On Road Diesel: 4,159
- Off Road Diesel: 21,598

PM 10
- All Sources: 29,574
- On Road Diesel: 134
- Off Road Diesel: 528

28% of total

2% of total

September, 2008
Trucks and Air Quality

Tremendous reductions in emissions for Heavy-duty Highway Diesel Engines

Continuous Improvement
On-Highway Heavy-Duty Diesel Emissions Reductions

Source: US Environmental Protection Agency

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Emissions Comparison for 2007 Truck vs Older Units

Today (PZEV - 2006)

It takes six trucks to equal the particulate emissions of one truck sold in 1988

In 2007

It will take 60 trucks to equal the particulate emissions of one truck sold in 1988

Source: DTF analysis of EPA emissions standards
CMCA Approach to Environmental Issues

1) Work collaboratively with others including govt., local communities, environmental groups, and other industry groups
2) Be proactive – try to get ahead of the problem
3) Seek win-win solutions
4) Think and look “out of the box”
5) Be open to new ideas
6) Listen, learn, inform
7) Encourage incentives vs. mandates – better results

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Environmental Actions Taken or Supported by CMCA

- **Strong Support for Cleaner Burning Vehicles and Fuels**
  - Passage of Sales Tax Exemption on Low Emission Vehicles
  - Passage of Tax credits for cleaner burning vehicles and fuel facilities
  - Passage of measure to allow access to HOV Lanes for ILEV Vehicles
  
  - **Result – substantial increase in low emission vehicles. Example - Many of the FedEx package vehicles are now LEVs. UPS is planning a major purchase of LEV vehicles for Colorado.**

- **Efforts to Improve Diesel Emissions for Existing Fleets**
  - Worked with the RAQC and others on Improvements to Emissions Testing Program for heavy duty vehicles
  - Developed a Best Practices Manual for Diesel Maintenance aimed at reducing on-road emissions
  - Conducted numerous workshops on Best Practices for Diesel Maintenance
  
  - **Result – More fleets in the state operating efficiently and cleaner**

- **Passage of measure to reduce truck noise from jake brakes**
  - Legislation levies high fines for trucks with “jake brakes” but no muffler
  
  - **Result – Noise complaints have dropped substantially. Also many other states have passed this model legislation to reduce truck noise**

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Environmental Actions Taken or Supported by CMCA (cont.)

- Strong Supporter of EPA SmartWay Program - Transport Partner
  - Results – CMCA has a number of companies in program and achieving substantial emission reductions
- Support for Truckstop Electrification (TSE) Efforts and Acquisition of Auxiliary Power Units (APU) to reduce emissions and fuel use from idling
  - One TSE Site in state and seeking more
  - Working with state on grant programs to accelerate acquisition of APUs
- Support and assistance to Fleets seeking to Utilize Alternative Fuels or Acquire Cleaner Burning Vehicles
- Support for 2007 and 2010 EPA Standards for Heavy Duty Trucks

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SmartWay Transport Partnership

SmartWay encourages carriers and shippers to adopt or implement actions to make ground freight more efficient and cleaner for the environment. Reduction Low-Viscosity Lubricants
Good stuff.

SmartWay Carrier Strategies

- Idle Reduction
- Improved Aerodynamics
- Improved Freight Logistics
- Automatic Tire Inflation Systems
- Single Wide-base Tires
- Driver Training

- Low-Viscosity Lubricants
- Intermodal Shipping
- Longer Combination Vehicles
- Reducing Highway Speed
- Weight Reduction
- Hybrid Powertrain Technology
- Renewable Fuels

September, 2008
EPA SmartWay Program
Current and Projected Emission Reductions

CO₂ Emission Reductions Achieved Under U.S. EPA's
SmartWay® Transport Partnership Program

Tons Reduced

0 10,000,000 20,000,000 30,000,000 40,000,000 50,000,000 60,000,000


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CMCA 10 Point Plan for Truck Emissions Reduction

1. Create an Incentive–oriented Program to Retire Pre-1990 Trucks
2. Active Support and Participation by the State in the EPA SmartWay Program
3. Provide Incentives for Cleaner Burning Vehicles
4. Provide Incentives for Acquisition of Emission and Fuel Reduction Technologies
5. Utilize Public-private Partnerships to Help Promote and Develop Truckstop Electrification Projects

September, 2008
CMCA 10 Point Plan for Truck Emissions Reduction

6. Provide Outreach Effort to Improve Efficiency of Smaller Fleets

7. Reduce the Amount of the Fuel Tax Exemption for Off-road Use that is Not Ultra Low Sulfur Diesel

8. Require Use of Ultra-low Sulfur Fuel by All Diesel Vehicles that Work on Public Projects

9. Develop More Targeted Effort for Emission Compliance

10. Provide Incentives for Retrofitting of Older On and Off-road Equipment to Reduce Emissions

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Good stuff.

If you got it, a truck brought it.

Thank You

JUST ABOUT THE ONLY THING NOT DELIVERED BY A TRUCK.

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