

# **Transportation Strategies for Climate Change**

## **Midwestern Viewpoint**

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# Iowa / Midwest Perspective

- Agriculture dependent
  - Iowa #2 ag state, \$20B in sales
- Renewable producer
  - Iowa #1 ethanol, biodiesel producer
  - Wind #2 wind state
- Heavy energy use
  - More transportation miles
  - Heating/Cooling, Ag production

# Participants

- North Central Bioeconomy Consortium
  - 12 states
  - Secys of Ag
  - Land Grant Deans of Ag
  - Experiment Stations
- Midwestern Governors Assn
  - Policy Objective, Nov 2007
  - Commits 6 Governors, 1 Premier to GHG targets and cap and trade regime

# Drivers

- Climate Change Impacts
- Economic Impact and Opportunity
  - Heavy energy use
- Impact on the Biofuels Industry
  - LC Fuel Standards
  - Indirect Land Use

# Activities of NC Bioeconomy Consortium

- Online Webinars
- Advisory Group, Aug 2008
  - 30 participants
- Consensus Recommendations
- Handoff to Midwestern Govrs Assn

# MW Governors' Assn

- Committee approved Jan, 2009
- MGA Steering Committee approved March, 2009

# Bioeconomy/Biofuels

## ■ Values

- Drives economic development
- Endures cleaner environment
- Supports next generation biofuels
- Provides for energy security
- Enhances engine performance
- Lowers energy prices

# Biobased products and Transportation

- Develop a variety of biomass utilizing biofuels technologies
  - Advance conversion technologies
  - Also promote bioenergy for heat and electricity
  - Develop market pull and infrastructure
  - Support biomass feedstock logistic development
  - Incentives for vehicle efficiency and GHG reductions

# Recommendations

## ■ Biofuels Options

- Implement statewide biofuels replacement policies
- More flexfuel vehicles

## ■ Transportation

- Public transportation
- More options for both rural and urban
- Include options of walking and biking

# Recommendations-LCFS

- Regional Coordinating Body
- Cross-functional Scientific and Technical Committee
- 2005 baseline for emissions
- At least 10% reduction in 10 years
- Tracking and reporting requirements
  - RINs

# Recommendations (cont.)

- Life-cycle Analysis
  - Best available science
  - Default values, based on current performance
  - Opportunity for firms to prove own GHG values
  - Concern about use of indirect land use

# Indirect Land Use Concerns

- Inadequate cause and effect science
- Even weak correlation effect
- Weak science undermines perception of science basis for LC Fuel Std
- Indirect only considered for biofuels, not oil or development
- One gasoline Carbon Intensity rate

# Questions?

- LCFS Document

- <http://www.midwesterngovernors.org/MGA%20Energy%20Initiative/LCFS/LCFS.htm>

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