



National Climate Change Initiatives

MWAQC

June 24, 2009



Overview of Recent Developments

- US EPA
 - Renewable Fuel Standard
- White House/EPA/DOT
 - GHG Emission Standards and CAFE



U.S. EPA Renewable Fuel Standard

- EPA announced 2nd phase Renewable Fuel Standard (RFS2) on May 5, 2009
 - Public Comment
 - Ends July 27, 2009



Renewable Fuel Standard

- Increase volume of renewable fuel over time (10→36 billion gallons by 2022)
- Creation of renewable fuel categories
 - cellulosic, biomass based diesel, advanced biofuel, total renewable fuel
- Feedstock and land use restrictions
- Lifecycle greenhouse gas reduction threshold



Renewable Fuel Standards

- OTC is concerned about increased emissions
 - Projected NOx increased by 2022
 - 241,00 tons from upstream production
 - 71,000 tons from downstream use
 - Projected hydrocarbon (VOC) increase by 2022
 - 77,000 tons from upstream production
 - 35,000 tons from downstream use
- The National Association of Clean Air Agencies (NACAA) testified and commented on this concern.

Program Impacts: Emissions

Pollutant	Change in total U.S. inventory ¹ in 2022 in comparison to RFS1 mandate
NO _x	2.5 to 3.0%
HC	0.6%
PM ₁₀	1.0%
PM _{2.5}	0.3%
CO	-3.1 to -5.8%
Ethanol	29 to 33%
Acetaldehyde	28 to 38%
Benzene	-1.5 to -3.5%
GHG	-150 to -160 million tons per year on average (over 30 to 100 years respectively)

¹ Includes all upstream and downstream emissions

White House Announcement on Regulating Greenhouse Gas Emissions from Motor Vehicles

- White House Announcement
- Joint EPA/DOT Rulemaking
 - Greenhouse Gas Emission Standard
 - New CAFE Standards
- Proposed National Solution
Resolves CAL LEV-II litigation,
waiver, and opt-in

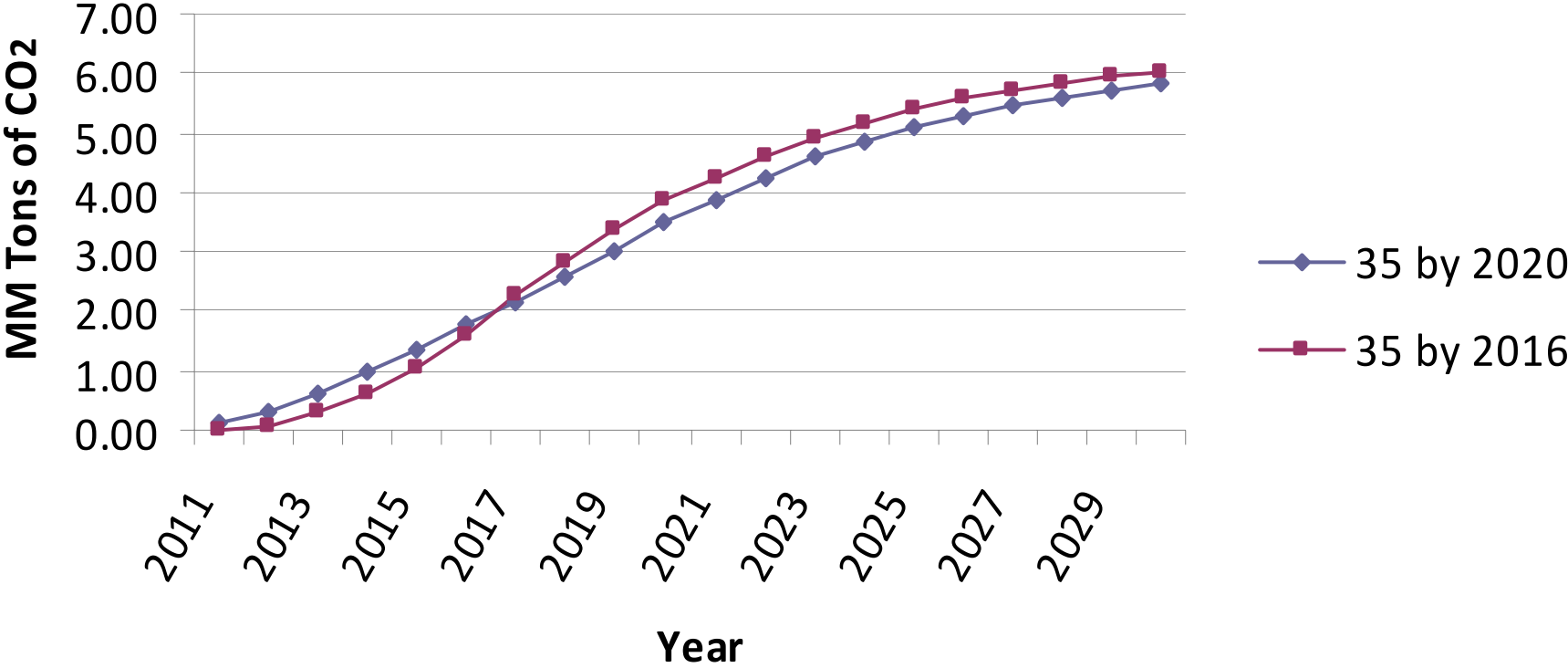


Greenhouse Gas Emission Standard and CAFE

- National intent is to harmonize the vehicle CO₂ emission standard with appropriate new CAFE requirements
 - 250 grams CO₂/mile
 - 35.5 mpg by 2016
- COG DTP Staff Estimates of Emission Benefit – 0.5% decrease compared to the recent Congressionally mandated 2020 CAFE



CO₂ Reductions



Source: COG DTP Staff

Next Steps

- Comment Period for RFS Proposal Ends July 27, 2009
- Exact timing of joint rulemaking proposal not yet known.
- For more information, see:

<http://www.epa.gov/oms/renewablefuels/>

<http://www.epa.gov/EPA-AIR/2009/May/Day-22/a12009.htm>

