

Report of the Sulfur Working Group

Partnership for Clean Fuels & Vehicles

5th Global Meeting

February 15-16, 2007

Quito, Ecuador

PCFV Sulfur Work Group Report

- Work Group/Report Process
 - MECA chaired a 3+ year process that included participants from many diverse sectors
 - Autos, engine manufacturers, oil & refinery industry, emission control manufacturing industry, lubricant industry, fuel additive industry, NGOs, U.S. EPA, UNEP staff
 - Numerous draft documents reviewed, edited, and discussed by the working group
 - Group struggled with authoring a concise document that provided policy makers with understandable information on technically complex topics
- Leadership by several key members, in the end, help to complete the report: UNEP staff, EPA's Jane Metcalf
- Final report lays out a general, non-technical framework for the development of policies and actions to reduce fuel sulfur levels

PCFV Sulfur Work Group Report

- Report Format – Six Sections

1. Introduction

- Short Overview of the Partnership and the Sulfur Work Group

2. Transportation Sector Impacts on Air Quality

- Set the stage: Lower fuel sulfur levels lowers emissions from existing vehicles and enables cleaner new vehicles with emission control technologies

3. Overview of Global Fuel Sulfur Levels

4. Relating Fuel Sulfur Levels and Clean Vehicles

- Fuels and vehicles form integrated systems
- Strategies for reducing vehicle emissions that link fuel sulfur levels and vehicle technologies
- 2005 PCFV goal: reduce fuel sulfur levels to 50 ppm or below worldwide
 - Local/regional conditions dictate the pace of change

PCFV Sulfur Work Group Report

- Report Format – Six Sections (cont.)

- 5. Reducing Fuel Sulfur Levels

- Where does sulfur come from
 - Overview of refinery operations
 - Options for sulfur reductions
 - Importation of lower sulfur fuels
 - Switch to lower sulfur crude oil at refineries
 - Refinery desulfurization options and considerations

- 6. Additional Considerations

- Urban phase-ins of low sulfur fuels
 - Low sulfur fuel regional corridors
 - Reduced engine maintenance, improved engine life
 - Sulfur is also present in lubricants
 - Need for enforcement
 - Fuel adulteration