



Colorado Climate Action Panel  
Transportation and Land Use  
Policy Work Group  
Meeting #2  
February 14, 2007



# Agenda

1. Roll Call and Review of Agenda
2. Review and Discussion of the Emissions Inventory and Reference Case Projections
3. Review and Discussion of Catalog of Policy Options with Rankings
4. Suggestions for Initial Priorities for Analysis
5. Next Steps for Initial Priorities for Analysis
6. Agenda, Time and Date for Next Meeting
7. Public Input and Announcements

# Emissions Inventory and Reference Case Projections

- Review “Draft Colorado Greenhouse Gas Inventory and Reference Case Projections 1990 – 2020”
- Review how Inventory and Forecast was produced
- Identify and discuss any issues and questions related to TLU issues to finalize document

# Colorado GHG Emissions

- Inventory and Reference Case Projections
- Analysis by CCS for further review, discussion and final revision
  - Inventory of historical emissions from 1990 to most recent data year
  - Projection of emissions to 2020

# Coverage

- Six gases per USEPA and UNFCCC guidelines
  - Carbon Dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous Oxide (N<sub>2</sub>O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulfur Hexafluoride (SF<sub>6</sub>)
  - Black Carbon considered separately
- All major emitting sectors
  - Electricity
  - Fossil Fuels
  - Residential, Commercial, Industrial Fuel Use
  - Transportation
  - Agriculture, Forestry and Waste
  - Industrial Processes and Other Sources

# Inventory Approach

- Standard US EPA and UN methodologies, guidelines, and tools
- Emphasis on transparency, consistency, and significance
- Preference for Colorado or regional data, where available
- Consumption and production-basis emissions from electricity generation
  - Very simplified approach used for initial analysis

# Projection Approach

- Reference case assumes no major changes from business-as-usual (BAU)
  - Includes approved policies and actions to the extent possible (e.g. Energy Efficiency, Renewable Energy)
- Growth assumptions from existing sources
  - US Census and Bureau of Labor & Statistics
  - US Energy Information Administration

# Key Points

- Preliminary draft is still under review for later PWG and CAP review and revision, as needed
  - Further reviews by Colorado DPHE and CCS in progress under WRAP project
- Helpful for diagnosis of GHG emissions, but not a baseline for modeling or compliance for individual options
- Consumption and Production methods
- Net and Gross methods

# Transportation

- Data Sources
  - Fuel efficiency rates - EIA Mountain region
  - VMT estimates
    - 1990-2002: CDOT
    - VMT projections by Denver Regional Council of Governments, the North Front Range Transportation and Air Quality Planning Council, the Pikes Peak Area Council of Governments, and CDPHE
- Methods
  - State-level VMT was allocated to vehicle types using the vehicle mix data provided by CDPHE

# Transportation

- Key Assumptions
  - Onroad fuel consumption projections
    - **1.2 percent** per year for gasoline
    - **3.3 percent** per year for diesel
  - Onroad VMT projections: **2.1 percent** per year
- Key Uncertainties
  - Projection data
  - Role of biofuels in the future
  - Inclusion of international bunker fuel in EIA jet fuel consumption estimate

# Catalog of Policy Options with Rankings

- Review of TLU Catalog Document with Nominal Rankings
- Discussion of Changes to Nominal Rankings
- Discussion of Options that have been included in other state Climate Action Plans

# Categories of TLU Policy Options

- TLU-1: VEHICLE TECHNOLOGY (including alternative fuel vehicles)
- TLU-2: VEHICLE OPERATION
- TLU-3: ALTERNATIVE FUELS (focused on production and use)
- TLU-4: LAND USE AND LOCATION EFFICIENCY
- TLU-5: TRANSPORTATION SYSTEM EFFICIENCY
- TLU-6: MISCELLANEOUS

# Suggestions for Initial Priorities for Analysis

- **Definition of “Priorities for Analysis”:**
- **High:** High priority options will be analyzed first.
- **Medium:** Medium priority options will be analyzed next, time and resources permitting.
- **Low:** Low priority options will be analyzed last, time and resources permitting.

# Suggestions for Initial Priorities for Analysis

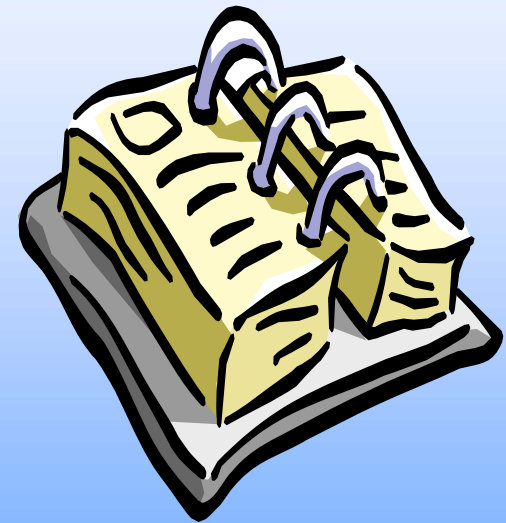
- Roundtable Discussion

# Policy Work Group Next Steps

- Review and discuss initial priorities for analysis
- Identify missing potential Colorado actions for CAP consideration
- Discussion of suggested policy designs for specific policy actions for CAP review

# Next PWG Meeting

- Agenda:
  - Identify initial priorities for analysis
  - Identify suggested updates to the Colorado emissions inventory and projection
- March 2007, Time and Location TBD



# Public Input, Announcements