



# NEW MEXICO CLIMATE CHANGE ADVISORY GROUP MEETING #3 JANUARY 11, 2006



## NM CCAG MEETING #3

- CALL TO ORDER
- WELCOMING REMARKS (ROBERT CZERNIAK, ASSOCIATE DEAN NMSU)
- INTRODUCTIONS
- REVIEW MEETING AGENDA
- APPROVAL OF SECOND CCAG MEETING SUMMARY

# TODAY'S AGENDA

1. CALL TO ORDER
2. WELCOMING REMARKS (ROBERT CZERNIAK, ASSOCIATE DEAN NMSU)
3. INTRODUCTIONS
4. REVIEW MEETING AGENDA
5. APPROVAL OF SECOND CCAG MEETING SUMMARY
6. PUBLIC INPUT
7. NMED UPDATES AND COMMENTS
8. REVIEW OF CCAG PROGRESS AND NEXT STEPS
9. TWG REPORTS TO THE CCAG
10. NEXT STEPS TWGS
11. NEXT MEETING AGENDA, DATE, LOCATION
12. PUBLIC COMMENT
13. CHAT ROOM DEMONSTRATION
14. ADJOURN

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# PUBLIC INPUT

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## **TODAY'S NEXT AGENDA ITEMS**

- **NMED UPDATES AND COMMENTS**
- **REVIEW OF CCAG PROGRESS AND NEXT STEPS**
- **TWG REPORTS TO THE CCAG**
- **NEXT STEPS TWGs**

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## **NMED CLIMATE ACTIONS**

- **RON CURRY AND JIM NORTON**

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# CCAG/TWG PROGRESS

1. **DEVELOP INITIAL GHG INVENTORIES AND FORECASTS (COMPLETED)**
2. **IDENTIFY CONCEIVABLE GHG MITIGATION OPTIONS (COMPLETED)**
3. **IDENTIFY INITIAL PRIORITIES FOR EVALUATION (COMPLETED)**
4. **EVALUATE GHG REDUCTION POTENTIAL AND COST-EFFECTIVENESS OF INDIVIDUAL OPTIONS; ALONG WITH ANCILLARY AND FEASIBILITY ISSUES AS NEEDED (UNDERWAY)**
5. **IDENTIFY POTENTIAL BARRIERS, ALTERNATIVE POLICY DESIGN NEEDS FOR INDIVIDUAL OPTIONS (UNDERWAY)**
6. **MODIFY, ADD OR SUBTRACT OPTIONS AS NEEDED (UNDERWAY)**
7. **EVALUATE CUMULATIVE RESULTS OF OPTIONS AGAINST E.O. TARGETS**
8. **ITERATE TO CONSENSUS, WITH VOTES AS NEEDED**
9. **AGGREGATE OPTIONS INTO IMPLEMENTATION SCENARIOS**
10. **FINALIZE RECOMMENDATIONS AND REPORT LANGUAGE**

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# DRAFT CCAG REPORT

- **EXECUTIVE SUMMARY**
- **BACKGROUND, PURPOSE AND GOALS**
  - DESCRIPTION OF THE PROCESS
  - HISTORY AND STATUS OF STATE ACTIONS
  - STATE EMISSIONS INVENTORY & FORECAST
- **POLICY RECOMMENDATIONS & RESULTS**
  - AGRICULTURE AND FORESTRY
  - ENERGY SUPPLY
  - RESIDENTIAL, COMMERCIAL, INDUSTRIAL
  - TRANSPORTATION & LAND USE
  - CROSS CUTTING ISSUES
- **APPENDICES**

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# TWG REPORTS TO CCAG

- REVIEW “SHORT LIST” OF TWG PRIORITY OPTIONS FOR ANALYSIS, VOLUNTEERS FOR STRAW PROPOSALS BY CCS
- INVITE TWG MEMBERS AND VOLUNTEERS TO COMMENT ON RATIONALE FOR SELECTION, KEY POLICY DESIGN ISSUES
- INVITE CCAG TO ASK CLARIFYING QUESTIONS, REQUEST MODIFICATIONS
- REQUEST CCAG AFFIRMATION OF TWG PRIORITIES, WITH ANY MODIFICATIONS (ADDITIONS OR DELETIONS), BY VOTE
- SHARE FINAL INVENTORY AND FORECAST RECOMMENDATIONS FOR FINALIZATION BY THE CCAG

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# CCAG DECISIONS

- VOTING
  - VOTES AS NEEDED ON KEY DECISIONS
  - IDENTIFY EARLY CONSENSUS ACTIONS, BARRIERS
  - IDENTIFY FINAL CONSENSUS ACTIONS, RESOLVE FINAL BARRIERS
- LEVELS OF SUPPORT
  - UNANIMOUS (ALL)
  - SUPER MAJORITY (ALL BUT A FEW)
  - SIMPLE MAJORITY (50%+)
  - ALTERNATE/MINORITY VIEWS (CHARACTERIZE REASONS)



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# BREAK



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## DECISION CRITERIA

- **GHG REDUCTION POTENTIAL (CO<sub>2</sub>E)**
- **DIRECT COST PER TON GHG REMOVED**
- **ANCILLARY ISSUES**
  - CO-BENEFITS, COSTS, ETC.
- **FEASIBILITY ISSUES**
  - TECHNICAL, ECONOMIC, MARKET, PROGRAMMATIC, POLITICAL

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# TWG PRIORITIES

| TWG                         | # CURRENT PRIORITIES FOR ANALYSIS/DEVELOPMENT* |
|-----------------------------|--|
| ENERGY SUPPLY               | 19   |
| RCI                         | 19   |
| TRANSPORTATION AND LAND USE | 10   |
| AGRICULTURE AND FORESTRY    | 13   |
| CROSS CUTTING ISSUES        | 3  |
| TOTAL                       | 64   |
|                             | * MAY INCLUDE OVERLAPPING OPTIONS              |

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# RCI OPTIONS

- **ENERGY EFFICIENCY PROGRAMS AND POLICIES**
  - UTILITY DEMAND SIDE MANAGEMENT (DSM) PROGRAMS, ENERGY EFFICIENCY FUNDS, AND/OR ENERGY EFFICIENCY REQUIREMENTS FOR ELECTRICITY
  - UTILITY DEMAND SIDE MANAGEMENT (DSM) PROGRAMS, ENERGY EFFICIENCY FUNDS, AND/OR ENERGY EFFICIENCY REQUIREMENTS FOR NATURAL GAS AND OTHER FUELS
  - REGIONAL MARKET TRANSFORMATION ALLIANCE
  - STATE APPLIANCE STANDARDS
- **BUILDING DESIGN, CONSTRUCTION, AND OPERATIONS**
  - IMPROVED BUILDING CODES
  - BUILDING ENERGY PERFORMANCE REQUIREMENTS FOR STATE-FUNDED AND OTHER GOVERNMENT BUILDINGS PLUS PROMOTION AND INCENTIVES FOR SIMILAR ENERGY PERFORMANCE ENHANCEMENTS IN NON-GOVERNMENT BUILDINGS
  - GOVERNMENT AGENCY REQUIREMENTS AND GOALS (INCLUDING PROCUREMENT) -- FOCUS ON OPERATIONS
  - EDUCATION AND OUTREACH FOR BUILDING PROFESSIONALS
- **EDUCATION AND OUTREACH**
  - CONSUMER EDUCATION PROGRAMS
  - INCREASED EMPHASIS ON ENERGY AND ENVIRONMENTAL CONSIDERATION IN HIGHER EDUCATION

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## RCI OPTIONS...

- **PURCHASED OR DISTRIBUTED LOW-CARBON GENERATION**
  - GREEN POWER PURCHASING
  - RATE DESIGN (INCLUDING TIME OF USE RATES, INCREASING BLOCK RATES, AND SEASONAL USE RATES)
  - INCENTIVES AND PROMOTION FOR RENEWABLE ENERGY AND CLEAN COMBINED HEAT AND POWER
  - REGULATORY/LEGISLATIVE GRID, PRICING, AND OTHER POLICIES TO SUPPORT DISTRIBUTED GENERATION
- **DIRECT GHG REDUCTION POLICIES**
  - SUPPORT FOR SWITCHING TO LESS CARBON-INTENSIVE FUELS
  - PARTICIPATION IN REGIONAL (OR NATIONAL) INDUSTRY EMISSIONS CAP AND TRADE PROGRAMS
  - VOLUNTARY EMISSIONS TARGETS
- **OTHER OPTIONS**
  - USE OF ALTERNATIVE GASES (NON-ENERGY EMISSIONS, INDUSTRIAL PROCESS GASES)
  - SOLID WASTE RECYCLING, SOURCE REDUCTION, AND COMPOSTING

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## RCI INVENTORY & FORECAST

- **NO REMAINING RCI INVENTORY/FORECAST ISSUES**
- **RCI TWG'S RECOMMENDATION IS TO INCLUDE IN FINALIZED INVENTORY DOCUMENT**
  - **GRAPHS PREPARED BY CCS SHOWING DIFFERENT QUANTITATIVE VIEW OF RCI ENERGY USE, WITH EMPHASIS ON ENERGY USE IN BUILDINGS**
  - **FOOTNOTE INDICATING THAT INDUSTRIAL ENERGY USE INCLUDES SOME BUILDINGS ENERGY USE**

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# ES OPTIONS

- **RENEWABLE ELECTRICITY**
  - RENEWABLE PORTFOLIO STANDARD (RPS)
  - TAX CREDITS AND INCENTIVES FOR RENEWABLES
  - DISTRIBUTED RENEWABLES
  - RENEWABLE ENERGY TRANSMISSION AND STORAGE
  - BIOMASS
  - CENTRALIZED RENEWABLES
  - R&D INCLUDING ENERGY STORAGE
  - WIND POWER SITING
- **CENTRALIZED NON-RENEWABLE ELECTRICITY**
  - ADVANCED COAL/FOSSIL TECHNOLOGIES E.G., IGCC WITH CARBON CAPTURE (SEE ES-15 TOO)
  - NUCLEAR RELICENSING, UPRATING, LICENSING

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# ES OPTIONS...

- **GRID AND DEMAND-SIDE POLICIES**
  - COMBINED HEAT & POWER (CHP) INCENTIVES AND BARRIER REDUCTION
  - NET METERING
  - BROAD DEMAND MANAGEMENT OF ELECTRICITY AND NATURAL GAS (FOCUSED ON CONSUMPTION, NOT PEAKS)
  - TRANSMISSION CAPACITY AND CORRIDORS
- **OIL AND GAS POLICIES**
  - CO<sub>2</sub> CAPTURE AND STORAGE OR REUSE (CCSR); IN OIL & GAS AND OTHER OPERATIONS INCLUDE STORAGE OR REUSE OF POWER SECTOR CO<sub>2</sub> (SEE ES-9)
  - METHANE REDUCTION IN OIL & GAS OPERATIONS; BEST MANAGEMENT PRACTICES (BMPs) & PARTNER REDUCTION OPPORTUNITIES (PROs)
  - CO<sub>2</sub> REDUCTION FROM FUEL COMBUSTION IN OIL & GAS OPERATIONS
- **EMISSIONS POLICIES**
  - GHG CAP & TRADE (INCLUDES OFFSETS POLICIES)

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## ES INVENTORY & FORECAST

- **TWG RECOMMENDED REVISIONS:**
  - **CONSTANT EMISSIONS RATE FOR OIL AND GAS PRODUCTION**
  - **REFER PRODUCTION VERSUS CONSUMPTION ISSUES FOR LATER CONSIDERATION REGARDING DESIGN OF OPTIONS, REPORTING SYSTEMS**

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## TLU OPTIONS

- **PASSENGER SECTOR — VEHICLE TECHNOLOGY**
  - CALIFORNIA GHG EMISSION STANDARDS FOR LIGHT-DUTY VEHICLES
  - PROCUREMENT OF EFFICIENT FLEET VEHICLES
  - INCENTIVE/DISINCENTIVE OPTIONS BUNDLE
- **PASSENGER SECTOR — ALTERNATIVE FUELS**
  - ALTERNATIVE FUELS BUNDLE (BIODIESEL, ETHANOL, ELECTRICITY, SOLAR...)
- **DEMAND — LAND USE/LOCATION EFFICIENCY**
  - INFILL, BROWNFIELD RE-DEVELOPMENT
  - TRANSIT-ORIENTED DEVELOPMENT
  - SMART GROWTH PLANNING, MODELING, TOOLS
  - TARGETED OPEN SPACE AND CROPLANDS PROTECTION
  - GHG OFFSET REQUIREMENTS FOR LARGE DEVELOPMENTS
- **DEMAND — TRANSIT ALTERNATIVES**
  - MULTIMODAL TRANSPORTATION BUNDLE
- **FREIGHT - OPTIONS TBD**

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## TLU INVENTORY & FORECAST

- **TWG RECOMMENDED REVISIONS:**
  - NONE

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## **AGRICULTURE OPTIONS**

- **MANURE DIGESTERS**
- **BIOMASS FEEDSTOCKS FOR ELECTRICITY OR STEAM PRODUCTION**
- **ETHANOL PRODUCTION**
- **NUTRIENT MANAGEMENT**
- **MANURE MANAGEMENT**
- **CONSERVATION TILLAGE/NO-TILL**
- **CONVERT AGRICULTURAL LAND (ANNUAL CROPS) TO GRASSLAND OR ORCHARDS**
- **REDUCE PERMANENT CONVERSION OF FARM AND RANGELANDS TO DEVELOPED USES**
- **ORGANIC FARMING**
- **PROGRAMS TO SUPPORT LOCAL FARMING/BUY LOCAL**

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## **FORESTRY OPTIONS**

- **FORESTLAND PROTECTION FROM DEVELOPED USES**
- **FOREST HEALTH AND RESTORATION**
  - **RESIDENTIAL LANDS**
  - **OTHER LANDS**

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## **AF INVENTORY & FORECAST**

- **AGRICULTURE RECOMMENDED REVISIONS:**
  - NONE IDENTIFIED
- **FORESTRY RECOMMENDED REVISIONS:**
  - RANGELANDS DATA UNDER INVESTIGATION
  - LAND USE CHANGE DATA UNDER DEVELOPMENT
  - FORECAST ASSUMPTIONS TBD

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## **CC OPTIONS**

- **REPORTING**
  - DESIGN ISSUES UNDER DISCUSSION PENDING INPUT FROM OTHER TWGS
- **REGISTRIES - TBD**
  - WILL DISCUSS WITH INPUT FROM OTHER TWGS
- **EDUCATION - TBD**
  - WILL DISCUSS WITH INPUT FROM OTHER TWGS

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## **INVENTORY & FORECAST**

- **APPROVAL OF REVISED CALCULATIONS OR APPROACHES FOR ALL SECTORS BASED ON TWG FEEDBACK**

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## **NEXT STEPS TWGs**

- **TWGs WORK ON:**
  - **POLICY DESIGN PARAMETERS FOR OPTIONS**
  - **INITIAL ASSESSMENTS OF BENEFITS, COSTS**
  - **SUGGESTED IMPLEMENTATION MECHANISMS**
  - **POTENTIAL BARRIERS TO CONSENSUS**
  - **ADDITIONAL OPTIONS TO CONSIDER, AS NEEDED**

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## **TODAY'S NEXT AGENDA ITEMS**

- **NEXT MEETING AGENDA, DATE, LOCATION**
- **PUBLIC COMMENT**
- **CHAT ROOM DEMONSTRATION**
- **ADJOURN**

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## **PROPOSED AGENDA CCAG #4**

- **CONSIDERATION OF ADDITIONAL PRIORITIES FOR ANALYSIS**
- **PROGRESS REPORT ON POLICY DESIGN, ASSESSMENT OF PRIORITY OPTIONS**
  - **POTENTIAL BARRIERS?**
  - **IDENTIFICATION OF ALTERNATIVES AS NEEDED**
- **REVIEW OF FINAL REPORT OUTLINE AND PLANS**

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## **DATE CCAG #4 MEETING**

- **SUGGESTED:**
  - **APRIL 25, 2006**
  - **FARMINGTON, NM**

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## **PUBLIC INPUT, ANNOUNCEMENTS**

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