

*Development of the 2018 Point  
& Area Source Base Case  
Emissions Inventory for the  
WRAP Tribes*

*For Presentation on: October 20, 2005*

*Presented by:*

**Eastern Research Group, Inc.**



# ERG's Overall Contract Scope

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- **Emissions Inventory Improvement & Development (Point and Area Sources)**
  - 2002 QA and Revisions
  - Oil & Gas Sources (ENVIRON)
  - Tribal Point & Area (O&G) Sources (ERG & ENVIRON)
  - 2018 Basecase Projections
- **Control Technology and Other Analyses**
  - NO<sub>x</sub> Controls for EGUs
  - NO<sub>x</sub> Controls (Non-EGUs), SO<sub>2</sub> Controls
  - EGU Temporal Profiles for Modeling
  - California 2002 and 2018 inventories

# Tribal Point & Area Sources

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- **Scope:**

- Title V/Part 71 sources
- Non-Title V “Minor sources” > 50 tpy (actual) NO<sub>x</sub> or SO<sub>x</sub>
- Oil & gas sources (ENVIRON)

- **7 Entities/Reservations**

- Arapahoe and Shoshone Tribes of the Wind River Reservation (Title V - ITEP, O&G)
- Ute Mountain Ute Tribe (O&G)
- Navajo Nation (Title V - ITEP, O&G, minor sources)
- Tohono O’odham Nation (Title V - ITEP)
- Colville Tribe (Title V)
- Yakama Nation (Title V, minor sources)
- Warm Springs Reservation (Title V)

# Final 2002 Emissions Inventory

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- Table 1: Final 2002 WRAP Point Sources
- Table 2: Final 2002 WRAP Area Sources
- Interpreting results:
  - Only primary PM<sub>10</sub> and PM<sub>2.5</sub> are shown, although filterable is reported. (CA reported only filterable.)
  - CO low point source reporting thresholds
  - NH<sub>3</sub> does not include fugitive sources
  - All tribes with inventories are included
    - Most area source inventories submitted by state agencies (excluding oil and gas)
  - Tribal point sources include Navajo and Four Corners Power Plants (Navajo Nation)

# 2018 Base Case Inventory

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- **Scope**

- Point and area sources
- Not yet included: CA

- **Objectives**

- 2002 base case modeling, control strategy development
- Transparent methodology that is easily updated and modified
- Facilitates NIF conversion for EDMS upload and IDA conversion for modeling
- Comprehensive set of growth and control factors
- Spreadsheet used for tribal, state, and stakeholder review

# 2018 Key Assumptions

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- **Adjustments:**

- Retirements 2003-2004 (no replacement)
- Retirements/replacements after 2002
- Changes by EPA to the natural gas combustion emission factors (area sources)

- **Controls:**

- Reflect current “OTB” controls, limits, etc.
- Post-2002 emission limits <2002 actuals

- **Growth (Non-EGUs and Area Sources):  
EGAS, EIA, and USDA**

# Draft 2018 Emissions Inventory

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- **Table 3: Draft 2018 Point Sources Inventory (Base Case)**
- **Table 4: Draft 2018 Area Sources Inventory (Base Case)**
- **Table 5: Final 2002 and Draft 2018 Tribal Facility (Point Source) Emissions Inventory (Base Case)**

# Interpreting Results

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- **Tables 3 and 4: Draft 2018 Point and Area Sources (Base Case)**
  - Adjustments to natural gas combustion emissions
  - No tribal compliance agreements/enforcements
  - Potential reductions at Navajo and Four Corners (to be addressed during control strategy development)
  - Future new compressor station at the Arapahoe and Shoshone Tribes of the Wind River Reservation (no emissions estimated)
- **Table 5: Final 2002 and Draft 2018 Tribal Facility (Point Source) Emissions Inventory**
- **Are there other anticipated new point sources, EGUs?**

# Next Steps – 2018 Base Case

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- Receive comments from States, Tribes, Stakeholders
- Finalize and submit IDA files to RMC by 10/28/05
- Upload to EDMS by 10/28/05
- Final Tribal report and 2018 Base Case draft and final reports in November

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THANK YOU!

*Any questions?*

