

# Update on Control Measure Development in OTR

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Control Strategy Committee

October 5, 2005



# Measures Under Consideration

- Multi-Pollutant Program for EGUs
- ICI RACT
- Cement and Lime Kiln RACT
- Municipal Waste Combustors RACT
- DG (small diesel generators - on or off grid)
- Peaking Units
- Refinery RACT (multiple sources)
- Clean Corridors (on-road HDD and locomotives)
- Regional Fuel (on-road)
- Reduced Sulfur Residential and Commercial Heating Oil
- Cutback asphalt & emulsified sealer
- AIM Coatings
- Consumer Products
- Open Burning (trash, construction debris, etc.,.)
- Residential Wood Burning and Boilers



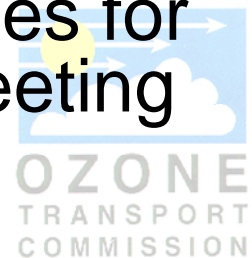
# Status Update

- RACT Analysis
  - Developing list of potential measures (point, area, NOx, VOC, PM) based on regional inventory assessment
- Multi-P Evaluation
  - Developing budget and model rule recommendations
  - Releasing RFP for technical assistance
  - Further cap definition contingent upon reference case modeling (Nov-Jan 06)
- Clean Corridors
  - Quantifying potential regional measures
  - Identifying implementation options (to complement existing efforts for NE Collaborative and potential Mid-Atlantic Collaborative)
  - Identifying funding sources
- Other efforts
  - Refinery RACT
  - Home Heating Oil, BART Workgroup, Regional Fuel
  - LADCO White Papers



# Process

- Evaluating ongoing control strategy development by various state-led groups and other multi-state organizations
- Assessing RACT categories to be updated
- Developing recommendations with assistance of Control Strategy Committee
- Developing technical support, emission reduction assessment - and potentially model rules with assistance of contractor
- Proposing list of potential regional strategies for Commission review at November OTC Meeting



# Timeline

- October: contractor quantifying full list of RACT measures (% reductions, estimated control, estimated reductions from reference case) and inventory information for BOTW measures to be considered
- November: presenting potential measures to Commission
- January: regional RACM Analysis
- Spring: White Papers for RACT Measures
  - \*potential model rule development for priority measures*
- developing ICI Boiler Inventory



			NOx Emissions (tpy)		
Controls Included in 2002 Inventory	OTB/OTW Controls	Candidate Control Measures	2002	2009 with OTB/OTW	2009 With Candidate Measures
<b>Source Category: Electric Generating Units</b>					
PSD/NSR/NSPS; RACT in NAA; Title IV SO2 Allowances; Title IV Phase I/II NOx Limits	CAIR; NOx SIP Call (except WI); Utility Enforcement Settlements; Combustion Turbine MACT	WP EGU2 - Emission Cap Based on "BACT for New Plants" Interim 2009 based on SO2 @ 0.15, NOx @0.12 lbs/mmBtu	1,045,736	831,630	319,080
<b>Source Category: Industrial/Commercial/Institutional Boilers/Heaters</b>					
PSD/NSR/NSPS; RACT in 1-hour ozone nonattainment areas	NOx SIP Call Boiler/Heater/RICE MACT	WP ICI1 - Apply 40% SO2 and 60% NOx reduction to all medium and large ICI boilers	228,815	219,285	173,021
<b>Source Category: Cement Kilns</b>					
PSD/NSR/NSPS; RACT in 1-hour ozone nonattainment areas Cement MACT	NOx SIP Call	WP KILN1 - Apply Reasonable Available Controls to All Kilns in Region	34,032	23,822	17,106
<b>Source Category: Petroleum Refineries</b>					
PSD/NSR/NSPS; RACT in 1-hour ozone nonattainment areas Refinery MACT I	Refinery MACT II Enforcement Settlements	WP REF1 Apply Likely Controls (90% SO2 and 80% NOx Reduction) to Boilers/heaters subject to BART	11,791	11,791	7,075