



VISTAS/MRPO Use of IPM[®] for Power Sector Emissions Forecasting

MANE-VU EGU Forecasting Meeting
Baltimore, MD
February 15, 2005

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Power Sector Forecast Needs

- EPA indicated no release of final EGU forecasts supporting CAIR proposal until final rule in FR
- Timelines not conducive to VISTAS emission forecast needs and MRPO initial future year runs
 - VISTAS felt specific state/local issues not appropriately accounted for in EPA proposed CAIR forecasts (e.g., NC Clean Smokestacks)

Reasons for Selection of IPM[®]

- Consistent model with EPA attainment determinations
- Least cost solutions based on economic and environmental constraints
 - Not command and control application
- Allows modeling of dispatch and bank and trade options
- MRPO EGU forecast study confirms same

VISTAS Contract

- Contracted ICF to initially run IPM[®] for specific runs years and scenarios
 - 2009 / 2018
 - Base Case (OTB), CAIR Case (OTW)
- Files provided in “parsed” unit-level output form
- Optional tasks for rerun of same scenarios with additional input and for up to three additional policy simulations

MRPO Contract

- Contracted Pechan to post-process “parsed” data
 - Adds additional pollutants and fields necessary for ozone and PM emissions processing and AQ simulations
- Optional task to produce stand-alone tool to post-process data

IPM Setup Availability

- Requested opportunity to utilize as much EPA-based data as starting point
 - V.2.1.6 of IPM framework
 - NEEDS-NODA version of input file
 - Fuel prices, generation demand, technology costs, etc.



VISTAS/MRPO Modifications

- Input assumptions provided to State / local / stakeholder groups for review and comment
- Many levels of revision requests returned

VISTAS/MRPO Modifications (2)

- NEEDS-NODA
 - Existing control and emission rates
 - Heat rates, capacities, fuel types
 - Planned (committed) unit modifications

- Future constraints
 - Expected technology application and schedule
 - State/local/facility specific limits, caps, or regulation



Summary Data and Reports

- Parsed data and summary reports prepared by ICF and LADCo and available on website
- <http://www.ladco.org/tech/emis/round1/ipm.htm>

Next Steps

- Review additional inputs for model
 - Expanded review of already commented data elements
 - Additional review of more resource intensive items
 - Fuel prices, load curves, generation demand, sales demand, etc.

Next Steps (2)

- Revised Base Case / CAIR Runs
- Up to three additional strategies

- Timeframes initiating in late April continuing through summer