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

MANE-VU EGU Forecasting Meeting
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Gregory Stella
VISTAS Technical Advisor – Emission Inventories
Alpine Geophysics, LLC
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 standalone 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](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