



MANE-VU Regional Haze Planning

Projecting “rules-on-the-books” and changes in controllable emissions for 2028 RPGs

Round 2 Regional Haze Planning Workshop

December 6, 2017

Denver, CO

2011/2018/2028 Alpha Modeling Inventory

The Strategy

Work regionally, inter-regionally & nationally

- ▶ MARAMA states – Improve Oil and Gas Inventory
- ▶ All NE States – Regional modeling inventory
- ▶ Inter-regional – Developing ERTAC EGU forecast
- ▶ Nationally – Coordination with other RPOs and USEPA (Oil & Gas, MOVES and area source tool improvements)

Use USEPA datasets when possible

- ▶ Focus regional efforts on EGU, Mobile, Oil & Gas
- ▶ Encourage & Coordinate state review of other sectors

2011/2017/2018/2028 Modeling Inventory Development Plan

Region	Sector	2011 ALPHA2	2018/2028 ALPHA2
MARAMA/ OTC	Non-EGU Point, Area, MAR	NEIV2	State specific V1 growth rates using EMF
LADCO			NEIV2 EMF grown, V1 national rates except a few LADCO developed factors.
Other states			NEIV2 EMF grown, V1 national rates
All Regions	EGU	ERTAC V2.3 (Smoothed CEM data)	ERTAC V2.3 w/ state provided rates for other pollutants
	Onroad & Nonroad	NEIV2	NEIV2
	Natural	Updated BEIS	Updated BEIS
	Chemistry	CB05	CB05

2028 Inventory Development (2011 Modeling Platform)

- ▶ Relying on the 2028 inventory developed by EPA results for many on-the-books rules already included in EPA modeling
- ▶ EGUs are the major issues since EPA's 2028 'el' includes the Clean Power Plan
 - ▶ MANE-VU States prefer ERTAC for EGU's for a variety of reasons
 - ▶ ERTAC already has 2028 projections available for MANE-VU use
- ▶ The MANE-VU "Ask" affects the EGU, non-EGU Point, and Area inventories
 - ▶ These are the sectors that MARAMA already has projected
 - ▶ EMF can be used to add controls to develop a control inventory
- ▶ Still working on method for performing a heavy-duty diesel emission adjustment to reflect a portion of the MANE-VU "Ask"

2028 RPG Modeling Plan

✓ Base Case 2011 Modeling for Modeling Performance Evaluation (Old Metric)



✓ Conducted Preliminary 2028 Photochemical Modeling to Assess Progress (Old Metric)



Relying on More Recent 2028 Projections Developed by MARAMA and EPA as the Base Case



Currently Developing Controlled Inventories to Model the MANE-VU Ask



Will Run a 2028 Control Case to Set RPGs (Using New Metric)



May Run an Updated 2028 Base Case (If Resources are Available)