

Western Interstate Energy Board Update: Projects related to the Clean Power Plan



ASU Workshop on the
Clean Power Plan

February 24, 2015
Scottsdale, AZ



1. State Work Group and WECC Modeling



States and WECC Coordinate on Scenario Modeling

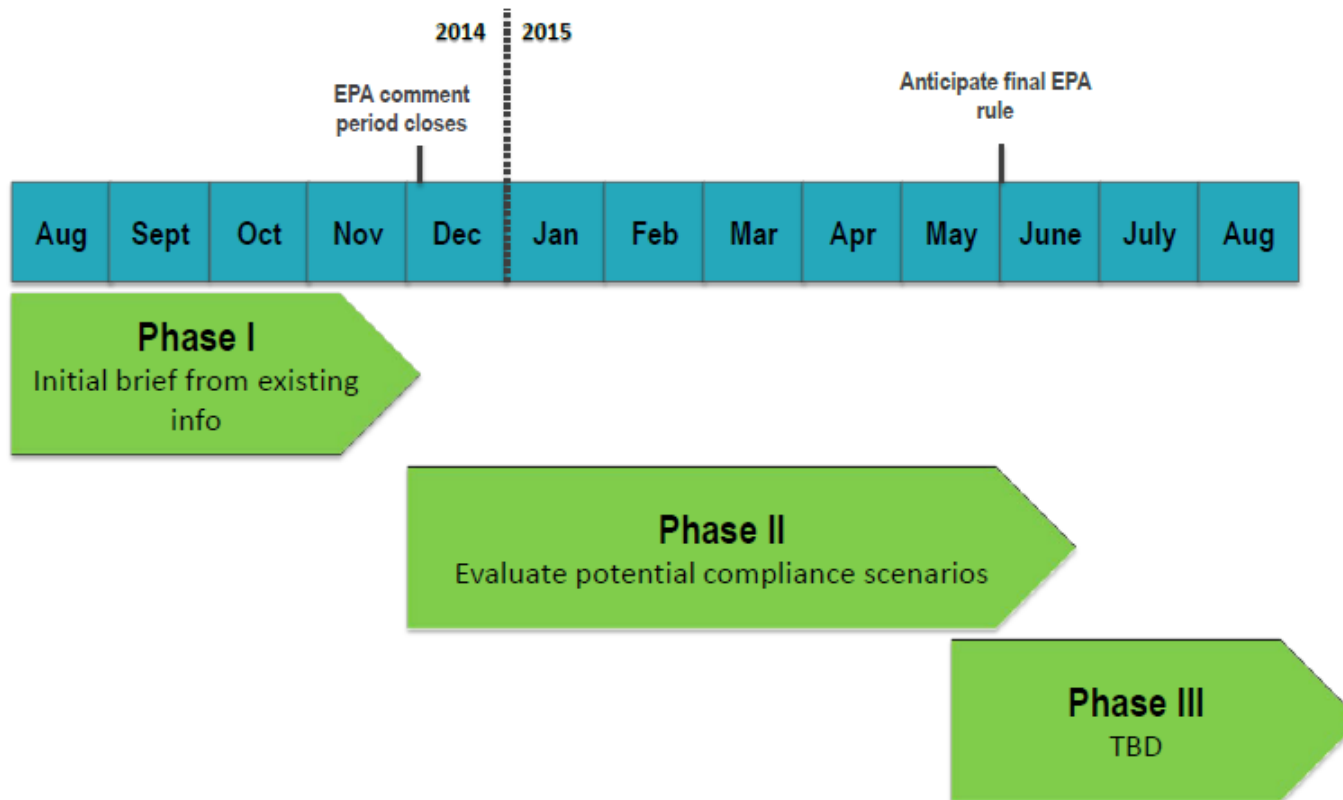
- WECC
 - WECC initiated project to model and analyze scenarios related to the Clean Power Plan
 - WECC solicited state input on scenarios
- WIEB/State Provincial Steering Committee
 - WIEB/SPSC formed Western States Modeling Work Group in August 2014 to advise the WECC 111d team
 - Work Group met 5 times August-December
 - Reviewed WECC's data assumptions and methodology, and feedback on WECC's preliminary 111d findings



WECC's Analysis of the Clean Power Plan in 3 Phases

10

Coordinate our Efforts





Phase 2 Work

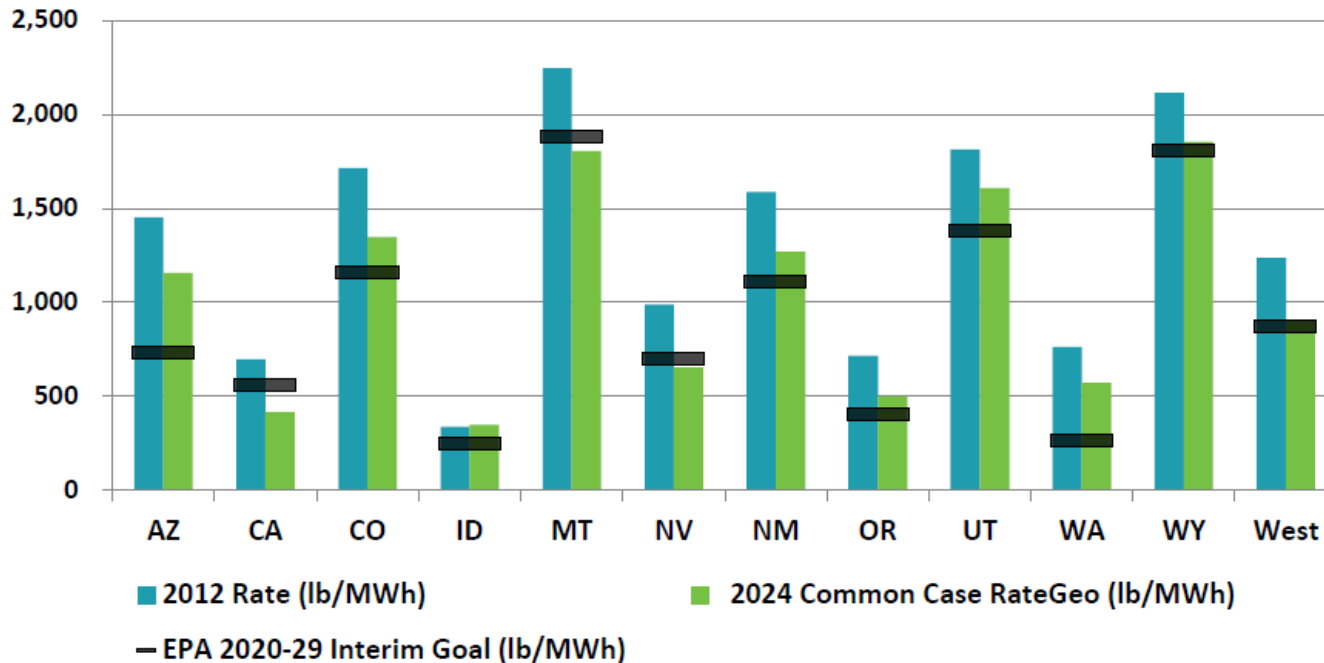
- “Phase 2” plan
 - After the deadline for filing comments (Dec. 1, 2014) and before EPA issues a final rule (June 2015)
 - **Develop scenarios that illustrate strategies that states may employ to comply with the CPP**
 - Submit 1 or 2 scenarios for WECC to model and analyze
- Objective for the Work Group in Phase 2
 - Develop insight on scenarios developed and WECC analysis
 - Support WECC in building the analytical capacity to perform good analyses



WECC's 2024 Common Case

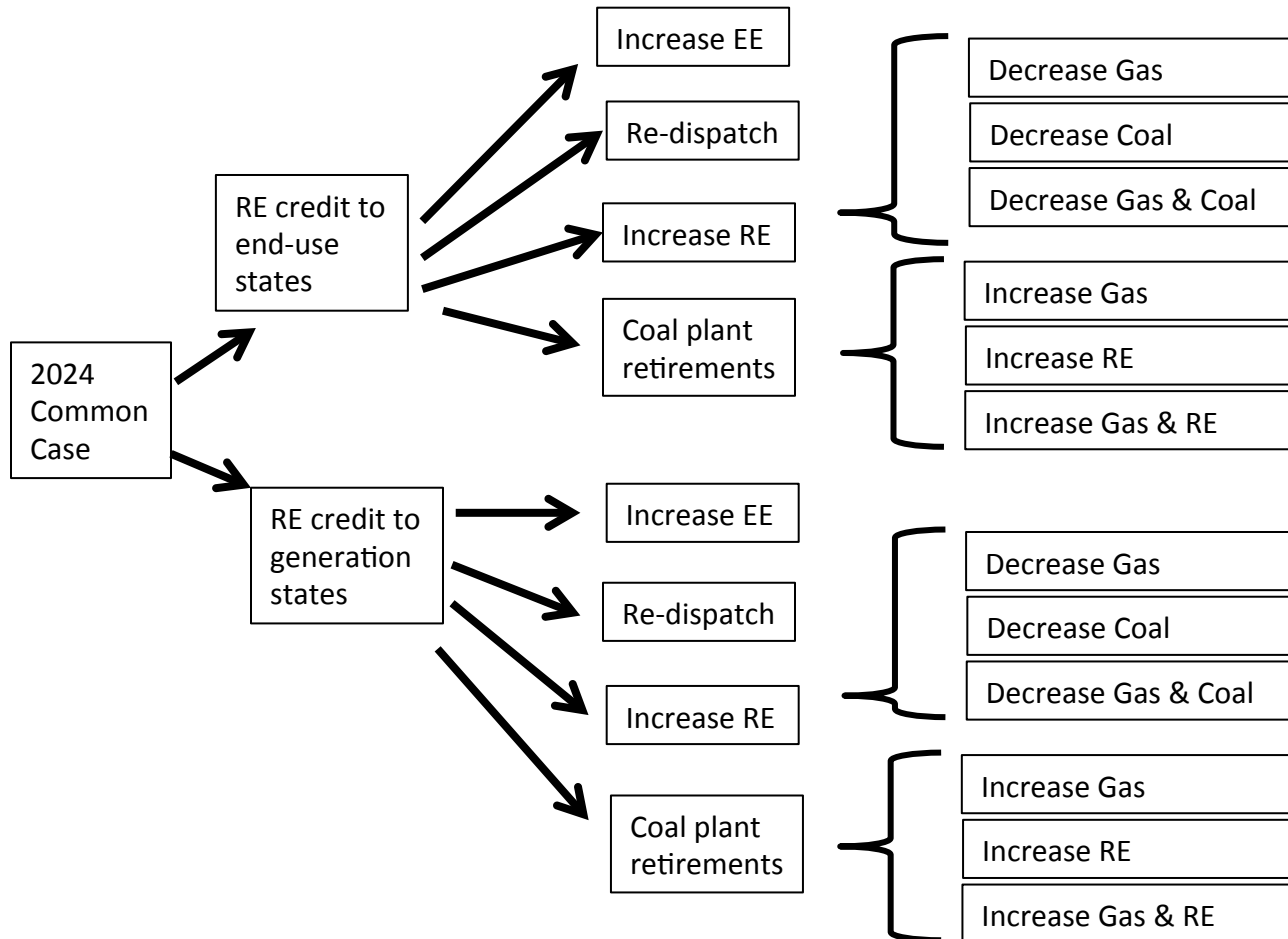
- Represents expected future based on utility plans, forecasted loads, future grid, and RPS & EE policies

CO₂ Emission Rates by State (lb/MWh)
Based on EPA 111(d) guidelines





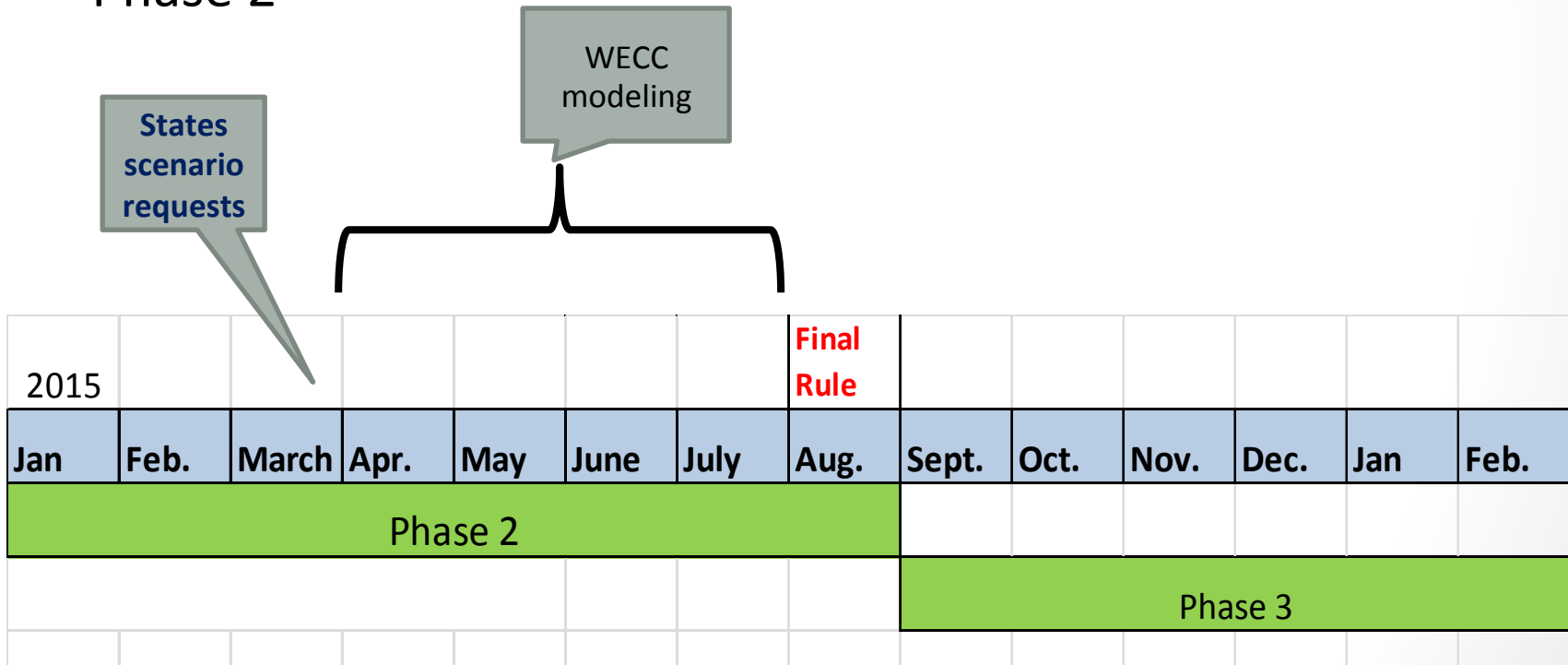
Phase 2: Develop scenarios resource mix





Phase 2 Timeline

- State Work Group creates 1 or 2 scenarios for WECC
- WECC models and analyzes scenario as a “practice run” in Phase 2





2. Exploring Multi-State Strategies for CPP Compliance



Modular Approach to 111(d) Compliance

“Modular” => States develop their own individual compliance plans for meeting their own individual targets, but with portions of those state plans containing “modules” based on collaboration with other states.

Exploring 3 modules:

- 1. Renewable Energy:** examine the potential to develop an RE tracking system for purposes of multistate compliance with 111(d) rules.
- 2. Energy Efficiency:** explore the feasibility of and requirements to develop a corresponding tracking system for EE.
- 3. Re-dispatch:** evaluate opportunities for states to coordinate and account for re-dispatch strategies among electric generating units (EGUs) within those states.



Modular Approach to 111(d) Compliance

- Contractor for project: Cadmus
- Desired outcomes
 - Western states have a clear picture of how they might individually benefit by developing and using one or more 111(d) compliance modules in collaboration with other states.
 - Identify options for expanding WREGIS or other systems for RE, EE or re-dispatch



State Energy Planning Project

- DOE grant to identify opportunities for region-wide/multi-state collaborations to address emerging energy issues such as air pollution compliance
- Develop a road map to advance regional solutions through:
 - Engagement of stakeholders (Energy Offices, Air Offices and PUCs, industry and nonprofits)
 - Modeling and analysis to explore strategies
- Timeline: 2 year project ending Dec. 2016
- State Partners: ID (lead), CA, CO, MT, NV, OR, UT & WA
- SPSC/CREPC meeting in San Diego, April 6-7: (1) discuss project priorities; (2) identify the strategies to explore.



Questions?

Thomas Carr, tcarr@westernenergyboard.org

Alaine Ginocchio, aginocchio@westernenergyboard.org

Western Interstate Energy Board

(303) 573-8910