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Flexible regulatory frameworks for state plans under Section 111(d)

Design considerations beyond flexibility

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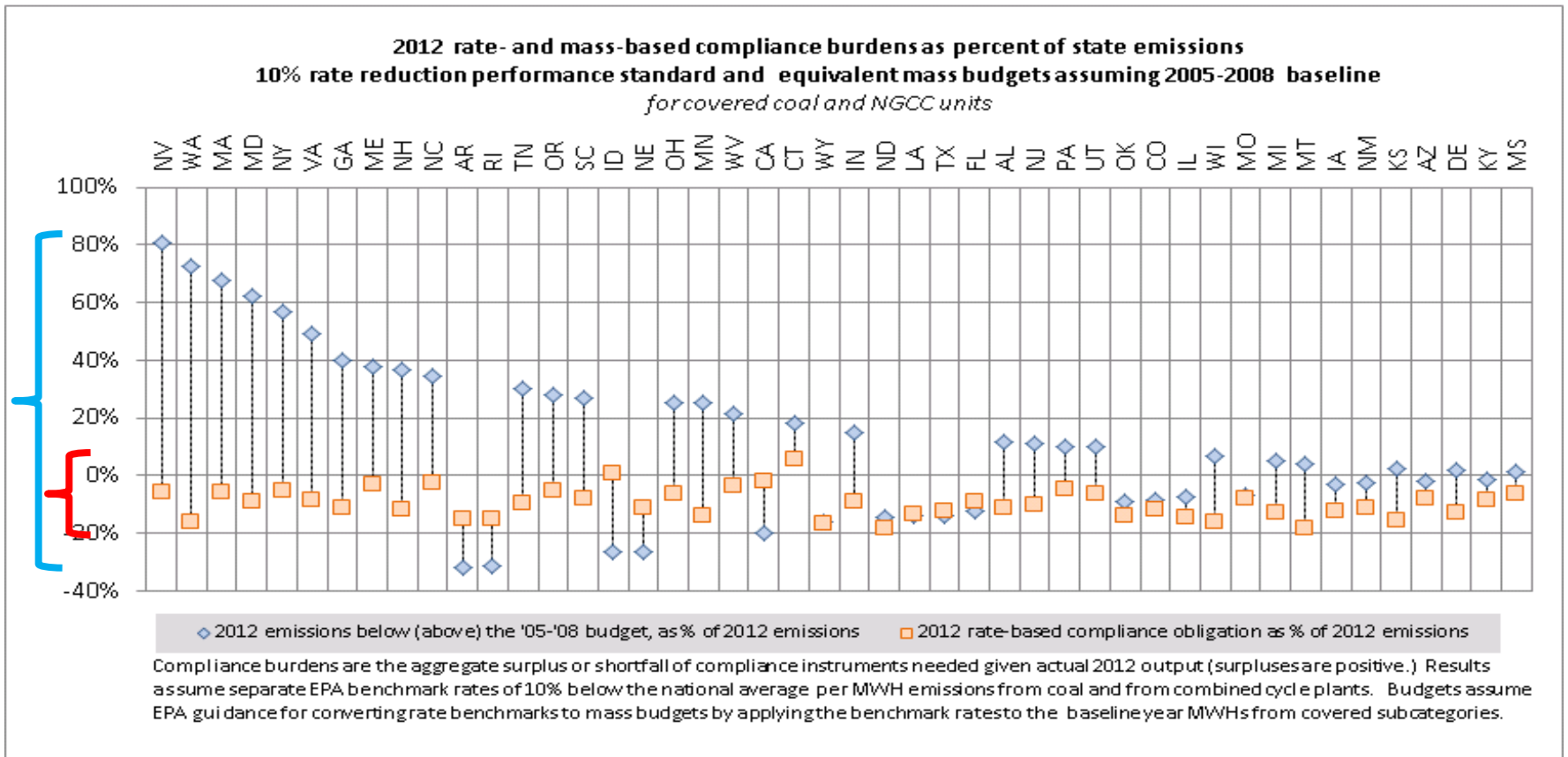
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Our basic recommendations for EPA's guidance to the states

- National emission rate reduction guidance, by subcategories, based on “behind the fence” measures available at moderate cost, for major subcategories of fuel and technology types
- Guidance as a “menu” on the following:
 - Methodologies for states to use if they voluntarily decide to credit emissions avoided by new “beyond the fence” energy efficiency and renewable energy initiatives and fossil plant retirement / repowering
 - Inter-state averaging, banking and trading
 - A “safety valve” Alternative Compliance Payment, collected by the states, to ensure trading and compliance prices are reasonable
 - Equivalence guidance for non-rate-based programs –
 - Rate – to – mass translation for cap-and-trade
 - IRP or other planning-based programs
 - Other approaches (tax-based ?)
 - BSER can be revised in the future to set more aggressive standards as technologies on both sides of the fence improve.

“Prix Fixe, a la carte, or brown bag”

A “natural experiment” to see how different state programs would co-exist



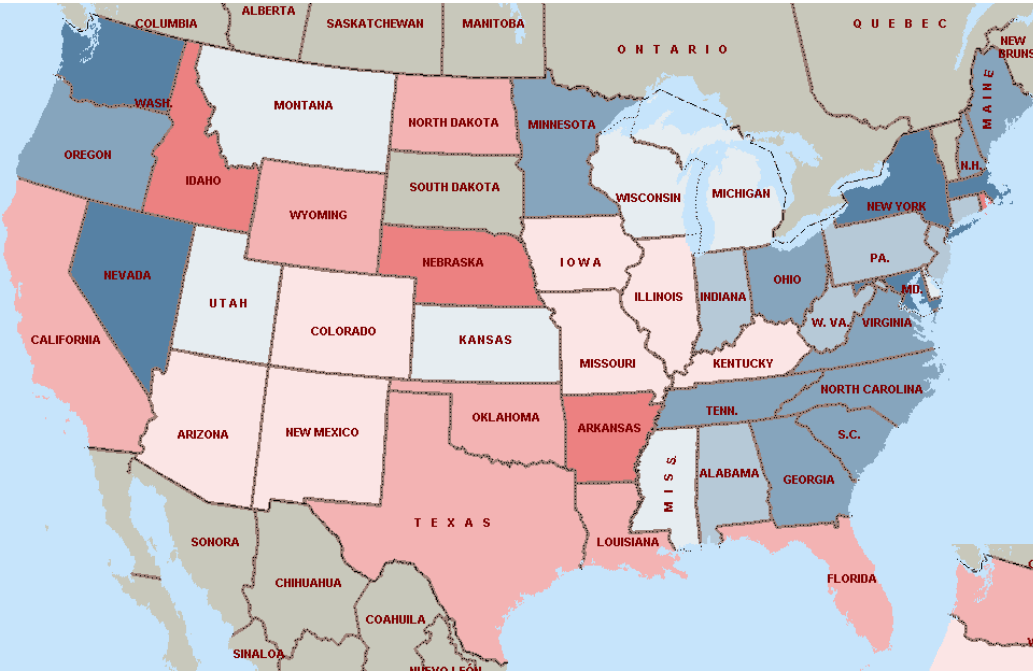
- Mass-based programs are more volatile and prone to extremes of surplus or deeply binding budgets
 - More likely to have significant price swings from very low (or zero) to very high
 - More likely to produce widely different results outside of large regional markets
- Rate-based programs are more stable over time and consistent across states
 - More likely to produce moderate but stable and consistent compliance burdens



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A patchwork of volatile vs. stable regimes?

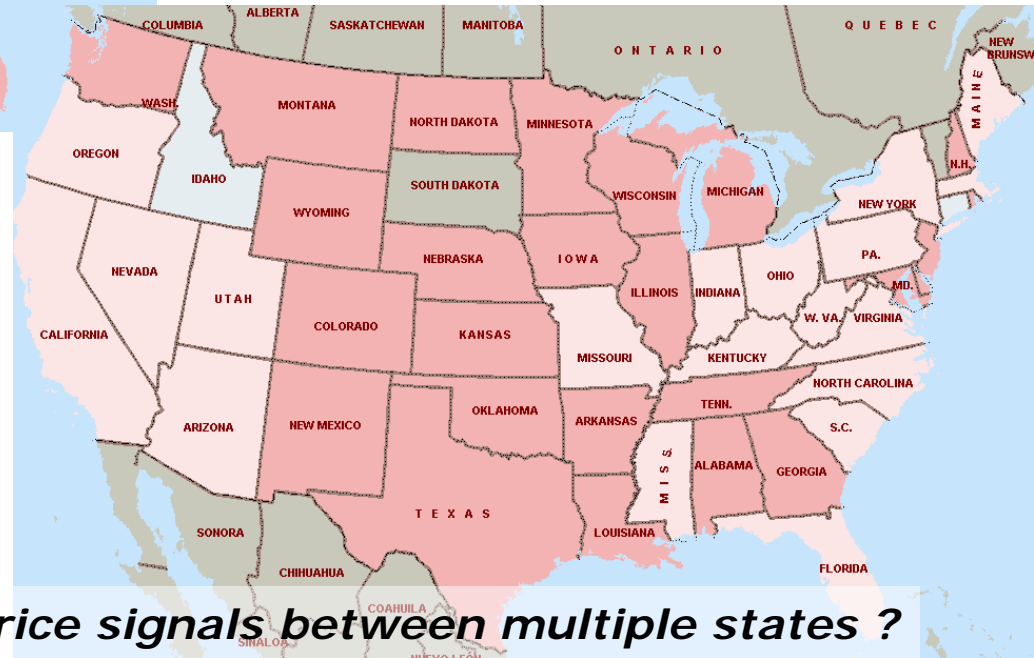
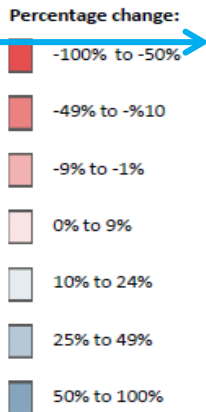


Rate-based outcomes

Two very mild budget surpluses

No extreme budget constraints (min. - 20%)

Stable through the great recession and the shale gale



Volatile leakage, dispatch, and price signals between multiple states ?

Key insights for avoiding interstate “seams” problems

1. EPA should make broader, more stable, highly comparable regimes more attractive to states
 - Strong encouragement for comparability, common building blocks and interstate trading
 - A model rule that makes it easy for states to adopt and implement comparable rate-based regimes
2. Recognition of early reductions (RER) should be independent of regime choice
 - Base RER on economic and intentional reductions after a baseline period, but make the compliance baseline as late as possible
 - RER for states could consist of “presumptive equivalence” and a delayed due date for plan
 - Entities who achieved intentional reductions should be awarded credits useable for compliance in multiple states
3. States should not reject all rate-based regimes out-of-hand just because the first one they saw may have been highly aggressive