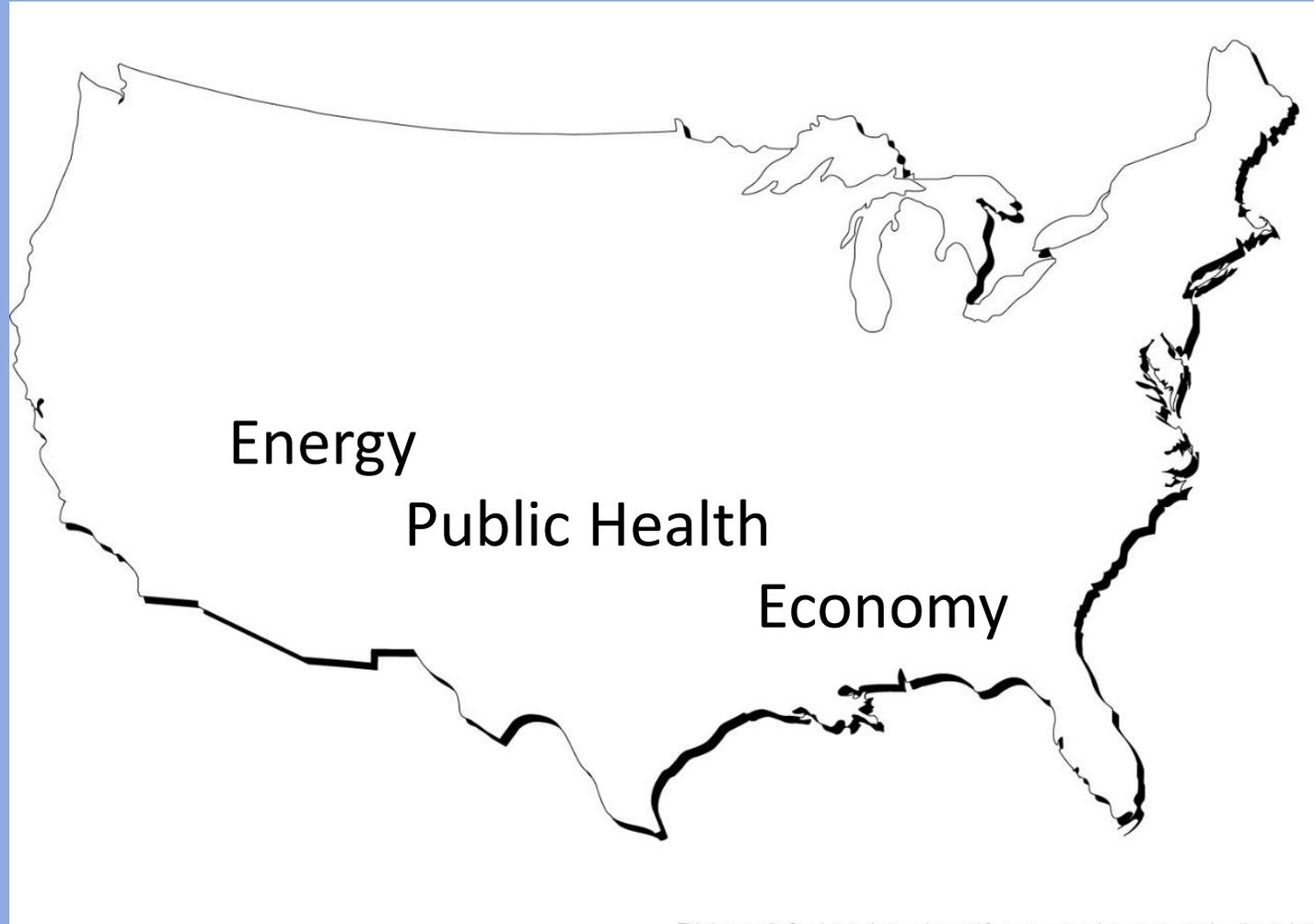


A Regulators Perspective on Energy and Air Quality

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An uneasy equilibrium



2015 Ozone NAAQS

- EPA revised level of primary and secondary standards to 70 ppb from 75 ppb
- EPA estimate: Meeting revised standard will yield health benefits of \$2.9 billion to \$5.9 billion annually by 2025 (vs. costs of \$1.4 billion)
 - Figures exclude California
- For the U.S. excluding California, the revised ozone standards are estimated to avoid:
 - 320-660 premature deaths
 - 28,000 missed work days
 - 630 asthma-related emergency room visits
 - 340 cases of acute bronchitis in children
 - 160,000 days when kids miss school
 - 230,000 asthma attacks in children

2012 PM2.5 NAAQS

- EPA revised level of primary standard to $12 \mu\text{g}/\text{m}^3$ from $15 \mu\text{g}/\text{m}^3$
- EPA estimate: Meeting revised standard will yield health benefits of \$4 billion to \$9.1 billion annually by 2020 (vs. costs of \$53 million to \$350 million)
- For the continental US, the revised PM2.5 standard is estimated to avoid:
 - 320-1500 premature deaths
 - 71,000 missed work days
 - 230 asthma-related emergency room visits
 - 870 cases of acute bronchitis in children ages 8-12
 - 11,000 cases of lower respiratory symptoms in children ages 7-14
 - 40,000 cases of asthma exacerbation in children

EPA is Destabilizing the Equilibrium

- Repeal of Clean Power Plan
 - Affordable Clean Energy proposal falls well short of needed reductions
- Weakening of Motor Vehicle CO2 Standards
 - EPA abdicates environmental responsibility to NHTSA
- Minimization of Science in NAAQS review
 - The CASAC chair thinks more PM is a good thing
- Minimizing the Role of Transport
 - Section 126 petitions are denied
- Mercury and Air Toxics Standards
 - Devaluation of co-benefits

What are we doing about it?

- Litigate
- Backstop programs
 - Oil and Gas
 - Residential Wood Heaters
 - Motor Vehicle Standards
- Emissions Control Programs
 - Distributed Generation
 - Peaking Turbines
 - Coatings
- Social Cost of Carbon