EPA's Review of the Ozone NAAQS

Greg Bertelsen

Director, Energy & Resources Policy gbertelsen@nam.org

National Association of Manufacturers
www.nam.org/ozone

December 2014



Agenda

Overview of EPA's Proposed Rule

• Discussion of the Costs: EPA's v. Reality

Advocacy

Q/A



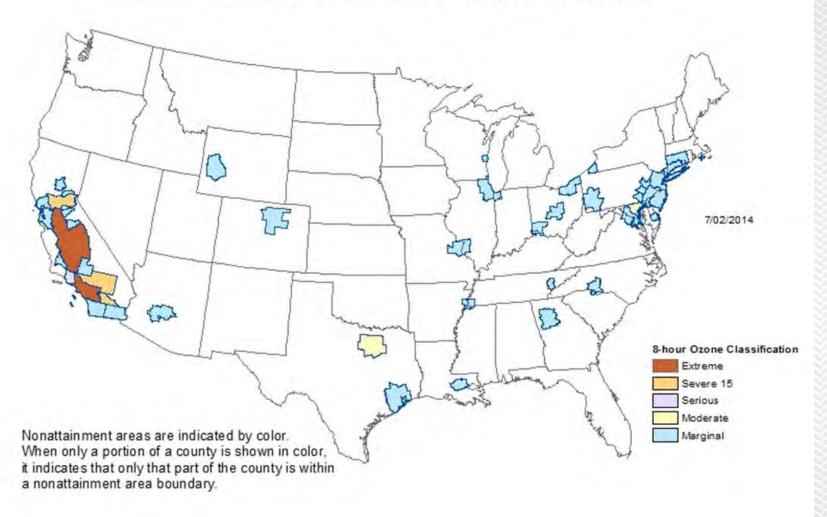
EPA Proposed Tightening National Ambient Air Quality Standard (NAAQS) for Ozone

- Ground-level ozone, often referred to as smog, forms when Nitrogen Oxides (NOX) and Volatile Organic Compounds (VOCs) interact with sunlight
- 5-year deadline for reviewing the ozone NAAQS was March 2013
- Nov. 26, 2014 EPA proposed tightening standard from 75 parts per billion (ppb) to between 65 – 70 ppb
 - Accepting comments down to 60 and up to 75
- 90-day comment period
- Final rule October 15, 2015
- Likely the most expensive regulation ever





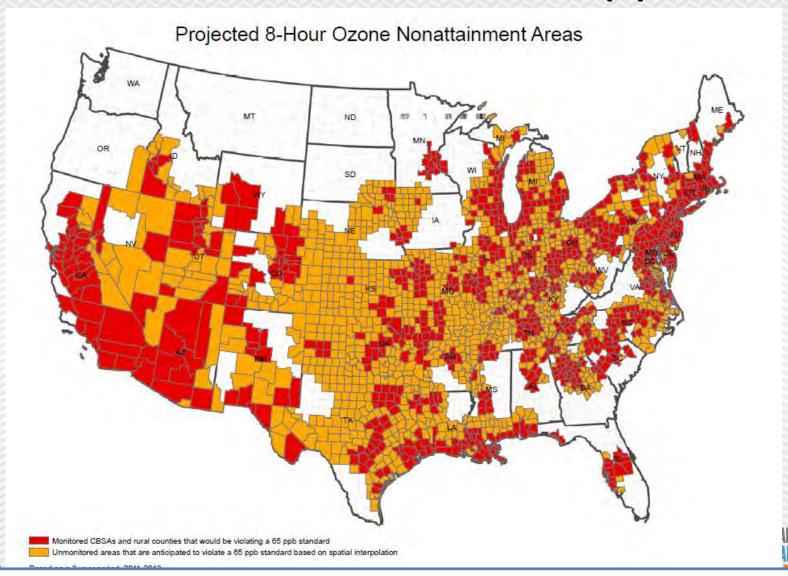
8-Hour Ozone Nonattainment Areas (2008 Standard)



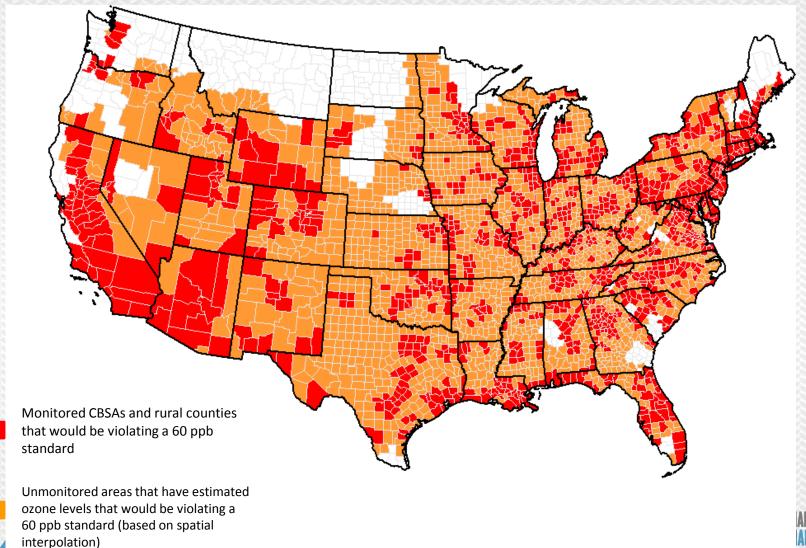




Nonattainment at 65 ppb



Nonattainment at 60 ppb



Most Expensive Regulation of All Time

EPA 2025 Compliance Cost Estimate 2014 Proposed Rule

Ozone Standard	Cost Estimate in 2025
70 ppb	\$3.9 billion
65 ppb	\$15 billion
60 ppb	\$39 billion

Source: EPA Proposed Ozone Rule, RIA (Nov. 2014)

Comparison of *Total* Cost Estimates EPA 2011 v. NERA Economic Consulting (2017 – 2040)

EPA Cost Estimate 60 ppb	NERA Economic Consulting 60 ppb
~\$900 Billion	\$2.2 Trillion

Source: EPA 2011 Ozone RIA and NERA Economic Consulting July 2014 Study





Why EPA's \$15 Billion/Year Vastly Underestimates the True Costs of 65 ppb

- Only considers counties that are currently monitored – excludes ~76% of U.S. counties
- Includes emission reductions from proposed Clean Power Plan
- Does not consider costs of states attaining standard before 2025
- Excludes California
- Assumes unknown controls are less expensive than known controls (\$/ton).





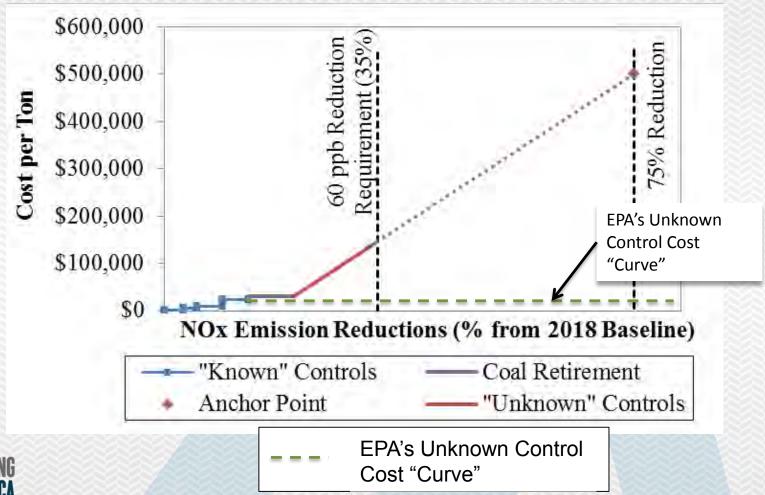
Potential Impacts of New Ozone Regulation Analysis Performed by NERA Economic Consulting (60 ppb)

- Reduce U.S. GDP by \$270 billion per year and as much as \$3.4 trillion over the period from 2017 to 2040;
- Result in 2.9 million fewer job-equivalents per year on average through 2040;
- Cost the average U.S. household \$1,570 per year in the form of lost consumption;
- Retirement of 101 GW of Coal-Fired Capacity
- Increase natural gas costs up to 52% and electricity up to 23%

Source: NERA Economic Consulting, Assessing Economic Impacts of a Stricter

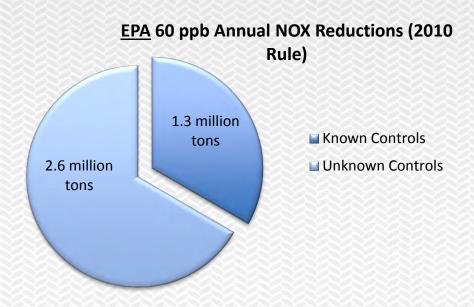
National Ambient Air Quality Standard for Ozone. Study can be found at: www.nam.org/ozone

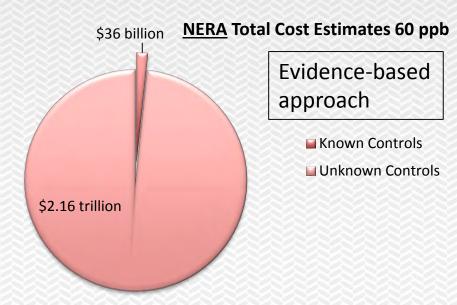
Cost Curves for NOX Reductions



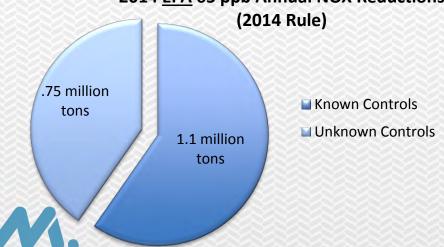


The "Unknown" Controls

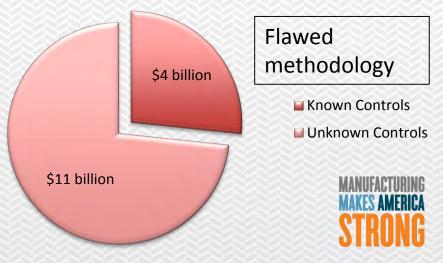




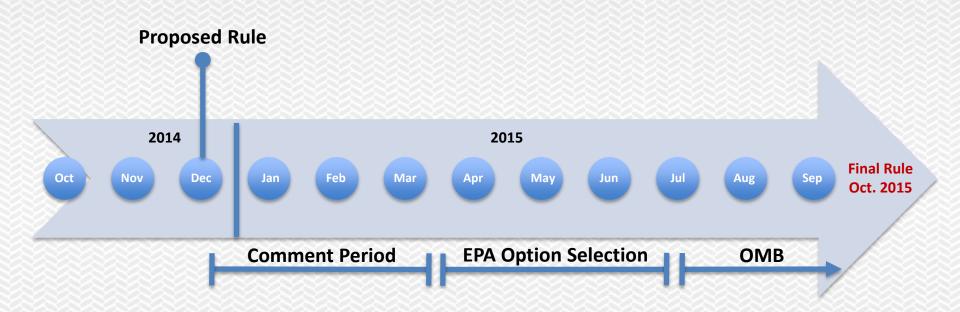




EPA 2025 Cost Estimates 65 ppb

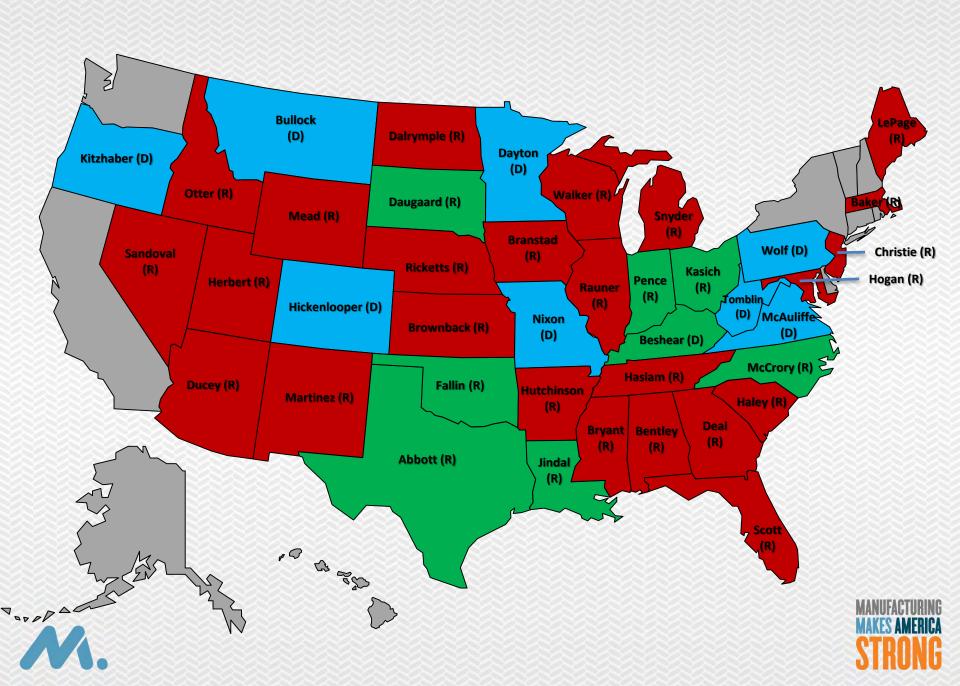


Ozone Rulemaking Schedule









Final Thoughts on Ozone Regulation

- Parts of the country and industries that traditionally have not had ozone issues, will have new and increased compliance burdens
- Costs slope upwards as the ozone standard is lowered – little low hanging fruit
- Congress will get engaged; states will get engaged; end-game is getting Administration to land at a reasonable place

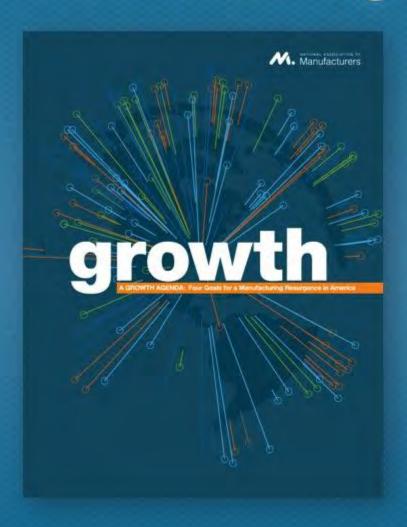




MANUFACTURING MAKES AMERICA



The NAM Agenda



Goal 1: The United States will be the best place in the world to manufacture and attract foreign direct investment.

Goal 2: Manufacturers in the United States will be the world's leading innovators.

Goal 3: The United States will expand access to global markets to enable manufacturers to reach the 95 percent of consumers who live outside our borders.

Goal 4: Manufacturers in the United States will have access to the workforce that the 21st-century economy demands.

