



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Air Quality



Energy Effects of EPA's Proposed Clean Power Plan

Pennsylvania Senate Environmental
Resources and Energy Committee

Harrisburg, PA

June 27, 2014

EPA's Section 111(d) Proposal

- EPA proposed State Specific goals by 2020 and 2030
- EPA's Final rule by June 2015
- State Plans Due to EPA by June 2016
- EPA may grant extensions
 - Individual State Plans for 1 year
 - Multi State Plans for 2 Years

EPA's Section 111(d) Proposal

- EPA proposed CO2 emission reduction goals for Pennsylvania.
 - **Interim Goal by 2020**
 - 37% from 2005 level
 - 23% from 2012 level
 - **Final Goal by year 2030**
 - 44% from 2005 level
 - 31% from 2012 level

EPA's Section 111(d) Proposal

- EPA established CO2 emission targets using:
 - Coal-fired boiler heat rate improvements (assumed 6%)
 - Switching to natural gas fired units
 - Switching to additional nuclear power
 - More renewable energy
 - Energy efficiency programs (“outside the fence”)

EPA's Section 111(d) Proposal

- The EPA's Clean Power Plan makes Section 111(d) the State Energy Plan, rather than a component of the State Energy Plan.
- EPA claims that these measures represent the "Best System of Emission Reduction" (BSER) which has been "adequately demonstrated."

EPA's Section 111(d) Proposal

- EPA proposed Pennsylvania's final goal using the following rate reduction contributions:
 - Redispatch of natural gas (11%)
 - Redispatch of additional nuclear (7%)
 - Renewable energy (43%)
 - Energy efficiency programs (27%)
 - Coal-fired heat rate improvements (11%)

EPA's Section 111(d) Proposal

- Pennsylvania's coal fleet annual capacity

Year	Capacity Factor	Coal Consumption	Reduction in Coal Consumption from 2005
2005	73.4%	43.4 million tons	N/A
2012	54.6%	33.0 million tons	24%
2020	23.7%	12.5 million tons	71%
2030	16.9%	10.5 million tons	76%

PA's Section 111(d) White Paper

- PA's White Paper offers a “no regrets” strategy.
 - Process efficiency improvements
 - Addresses the single greatest impediment to efficiency improvements
 - Framework is based on facilitating compliance
 - Regulates only the truly affected sources
 - CO₂ reductions achieved from other sectors

▶ PA's Section 111(d) White Paper

- PA's framework results in:
 - Cleaner air
 - A fuel diverse energy profile
 - Lower electricity prices
 - More jobs



Bureau of Air Quality

Vincent J. Brisini

**Deputy Secretary for Waste, Air, Radiation
and Remediation**

PA Department of Environmental Protection

717-772-2725

vbrisini@pa.gov