



## The Cross-State Air Pollution Rule *Health and Economic Benefits for Ohio*

To protect states afflicted by air pollution from outside their borders, EPA finalized the Cross-State Air Pollution Rule to reduce harmful emissions of sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) from power plants in the eastern half of the U.S. These clean air protections are called for under the —Good Neighbor provision of the Clean Air Act— a provision ensuring that air pollution discharged by power plants in an upwind state do not contribute to unhealthy pollution levels in downwind states. These protections will help downwind states suffering from this harmful pollution restore healthy air for their citizens and maintain compliance with the health-based national ambient air quality standards.

Under this rule, harmful pollution will be significantly reduced: SO<sub>2</sub> emissions from power plants in the eastern half of the U.S. would be reduced 73% and NO<sub>x</sub> emissions would be reduced 54%. Nationally, this rule will save up to 34,000 lives, prevent 400,000 asthma attacks, and avoid 1.8 million lost work or sick days each year once in place. The economic value of these benefits is estimated at \$120–280 billion each year. These benefits don't even account for the value of increased agricultural crop and commercial forest yields, improvements to visibility, and reduced nitrogen and acid deposition.

### *Ohioans will reap vital health benefits from this rule.*

Ohio is in the top tier of states that will benefit the most from this rule. Outside pollution from 18<sup>1</sup> states is currently impairing Ohio's air quality. Reducing pollution from both out of state and in-state sources will save up to 3,209 lives<sup>2</sup> and will prevent 1,352 heart attacks, 800 hospitalizations, and 1,017 ER visits in Ohio every year. Air quality improvement from this rule could benefit the over 2.7 million children at risk for asthma in Ohio.<sup>3</sup> These reductions will also prevent 149,722 lost work days due to these illnesses and provide about \$26 billion<sup>4</sup> in benefits to Ohio each year. These benefits are just those related to avoided mortality, but there are other important health and environmental benefits not quantified here. Under these clean air protections, the quantified health benefits for Ohio are nearly as much as what the state's entire budget was for FY 2011<sup>5</sup>— in other words, these billions of dollars in health benefits are very good news for Ohioans.



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<sup>1</sup> U.S. Environmental Protection Agency (EPA). “Benefits and Costs of the Clean Air Act.”

<http://www.epa.gov/cleanairactbenefits/whereyoulive/>

<sup>2</sup> U.S. Environmental Protection Agency (EPA). “Regulatory Impact Analysis for the Federal Implementation Plans to Reduce Interstate Transport of Fine Particulate Matter and Ozone in 27 States; Correction of SIP Approvals for 22 States,” June 2011 and Supplemental Information. <http://www.epa.gov/airtransport/pdfs/FinalRIA.pdf>

<sup>3</sup> American Lung Association. Pediatric asthma estimates are for those under 18 years of age and represent the estimated number of children who had asthma during 2009 based on age-specific national rates (NHIS) applied to age-specific county population estimates (US Census). <http://www.lungusa.org/finding-cures/our-research/trend-reports/estimated-prevalence.pdf>

<sup>4</sup> U.S. Environmental Protection Agency (EPA). Estimate in 2007 dollars. See excel spreadsheet at:

<http://www.epa.gov/airtransport/benefitsmap.html>

<sup>5</sup> Ohio is estimated to have spent \$26.6 billion in FY 2011. Ohio Office of Budget and Management, —The Jobs Budget: Transforming Ohio for Growth, Budget Summary March 2011, p. 2.