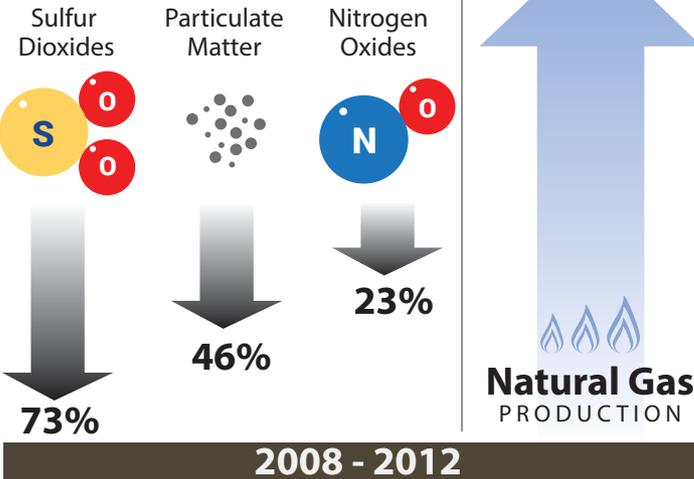


Natural Gas Delivers Local Air and Health Benefits



Pennsylvania Department of Environmental Protection

Emissions REDUCTIONS



“...Significantly, since 2008, when unconventional drilling across the state began quickly increasing, cumulative air contaminant emissions across the state have continued to decline. In particular, sulfur dioxide emissions from electric generating units (EGU) have been reduced by approximately 73 percent. The emissions of nitrogen oxides and particulate matter have also been reduced by approximately 23 percent and 46 percent, respectively, from this sector. ...These reductions represent between \$14 billion and \$37 billion of annual public health benefit, based on U.S. Environmental Protection Agency (EPA) methodologies.”

Sources: PADEP, EIA; Based on EIA and 2012 Data From Pennsylvania

Gina McCarthy, Administrator, U.S. EPA



“The pollution that I’m looking at is traditional pollutants as well as carbon. And natural gas has been a game changer with our ability to really move forward with pollution reductions that have been very hard to get our arms around for many decades.”

Sally Jewell, Secretary, U.S. Dept. of Interior



“Working hand in hand with industry, we have an opportunity to use innovative technologies to capture natural gas to power more homes with cleaner American-made energy, while reducing methane emissions and cutting carbon pollution.”

Obama Administration’s National Climate Assessment, 2014



“...the environmental and socioeconomic tradeoffs {of natural gas} are important to recognize: lower sulfur dioxide and nitrogen oxide emissions remove some climate cooling agents, but **improve ecosystem health and save lives.**”

The Breakthrough Institute



“[T]he evidence is strong that natural gas...brings improved air quality and reduced greenhouse gas emissions.”

Dr. Richard Muller, Professor of Physics, University of California-Berkeley



“Air pollution can be mitigated by the development and utilization of shale gas. ...Environmentalists should recognise the shale gas revolution as beneficial to society – and lend their full support to helping it advance.”

New York City Mayor’s Office



“...the expansion of the regional natural gas supply and local gas distribution infrastructure operated by Con Edison and National Grid has encouraged buildings to save money and reduce emissions by converting to natural gas. As a result, citywide concentrations of SO2 have declined by 69 percent and nickel by 35 percent.”

Dr. Daniel Schrag, Director, Harvard University’s Center for the Environment



“With proper regulation and enforcement, gas provides a very substantial health benefit in reducing air pollution.”

Dr. Michael Greenstone, Professor of Environmental Economics, MIT



“There’s a strong case that people in the U.S. are already leading longer lives as a consequence of the fracking revolution.”