

1.137 Unexpected slowdown of US pollutant emission reduction in the past decade.

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Abstract:

Air pollution regulations in the United States (US) have resulted in substantial reductions in emissions and correspondingly improvements in air quality. However, large uncertainties remain in evaluating the partitioning of emissions, and how recent regulations have affected these emissions. Here we show a significant slowdown in decreasing US emissions of nitrogen oxides (NO_x) and carbon monoxide (CO) for 2011 to 2015, by combining recent inverse modelling analyses, satellite and surface in-situ measurements, and emission estimation using a bottom-up approach.