

3.009 Field studies quantifying atmospheric emissions from energy production and consumption in the U.S. .

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Abstract:

Fossil-fuel energy production and consumption invariably leads to atmospheric emissions that can affect air quality, climate, and human health. I will summarize recent findings from field studies designed to quantify emissions from specific sources representing major energy-producing and -consuming sectors in the U.S. These findings illustrate spatial and temporal variability of emissions on daily, seasonal, and decadal time scales, and suggest the need for improved quantification and attribution of energy-related emissions that could be provided by a more integrated observing network.