

Dr. Anne E. Smith

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Dr. Anne E. Smith is an expert in environmental and energy policy evaluation, corporate compliance strategy planning, and risk management. She is known for her leadership in developing advanced quantitative models for market and macroeconomic impact analyses, cost-benefit analysis, probabilistic risk assessment, and integrated assessment of climate change and other energy and environmental concerns. Dr. Smith has applied such tools for clients in detailed analytical studies to evaluate long-range electricity sector and natural gas sector market responses to policy and technology shifts, power plant financial impacts, and to evaluate societal costs and benefits of global climate change, national ambient air quality standards (NAAQS), regional haze, air toxics, nuclear waste, and food safety. She provides her clients with expert guidance on the design and evaluation of market-based regulations, including externality fees, taxes, cap-and-trade, and other forms of tradeable credits. Dr. Smith is also an expert on health risks of PM2.5, ozone, and other criteria pollutants, associated epidemiologic and clinical studies, and use/limitations of US Environmental Protection Agency's (EPA's) BenMAP and APEX models.

Dr. Smith has served as an expert witness in major environmental and energy proceedings, including in US District Court, before regulatory commissions, and in international arbitration under the auspices of the Permanent Court of Arbitration. During these engagements, she has developed complex testimony on business damages, consumer and economic impacts, environmental damages, economic benefits of delayed compliance (including the EPA BEN model), costs and benefits of alternative injunctive relief options, and environmental offsets. Dr. Smith's expert testimony has covered a wide range of issues, including emissions credits, renewable fuel standards, transmission line siting, state climate policies, opacity standards, new source review violations, air quality nuisance allegations, and water permit compliance.

Dr. Smith is frequently invited to serve on expert advisory committees. She has served on the EPA's chartered Science Advisory Board and on numerous committees of the National Academy of Sciences over the past three decades. She has also served on the Board of Directors of the Society for Benefit-Cost Analysis. Prior to joining NERA, Dr. Smith was an officer and environmental practice leader at other economics and risk management consulting firms, providing expertise to clients in a wide range of sectors and regulatory agencies. She also served as an economist in the Office of Policy Planning and Evaluation at the EPA.

Education

PhD in economics (minor in engineering economic systems), Stanford University

MA in economics, Stanford University

BA in economics, *summa cum laude*, Duke University

Publications

- *A Simulation-Based Assessment of Alternative Explanations for Apparent Confounding in "PM Decomposition" Studies*
- *A Simulation-Based Assessment of the Ability to Detect Thresholds in Chronic Risk Concentration-Response Functions in the Presence of Exposure Measurement Error*
- *Uncertainty in the Estimated Risk of Lung Function Decrements Owing to Ozone Exposure*
- *Integrated Uncertainty Analysis for Ambient Pollutant Health Risk Assessment: A Case Study of Ozone Mortality Risk*

- *EPA's Particulate Matter Co-Benefits: A Case of Ever-Declining Credibility*
- *Potential Electricity and Energy Price Outcomes under EPA's Federal Plan Alternatives for the Clean Power Plan*
- *Technical Comments on the Social Cost of Methane As Used in the Regulatory Impact Analysis for the Proposed Emissions Standards for New and Modified Sources in the Oil and Natural Gas Sector*
- *Energy and Consumer Impacts of EPA's Clean Power Plan*
- *Economic Impacts of a Proposed 65 ppb National Ambient Air Quality Standard for Ozone on the State of Texas*
- *Quantification of Uncertainty in EPA's Estimates of Lung Function Impacts from Ozone Exposure*
- *Technical Comments on the Proposed Rule to Revise the Ozone National Ambient Air Quality Standards (79 Fed. Reg. 75234)*
- *EPA Regulatory Impact Analysis of Proposed Federal Ozone Standard: Potential Concerns Related to EPA Compliance Cost Estimates*
- *Economic Impacts of a 65 ppb National Ambient Air Quality Standard for Ozone*
- *Technical Comments on the EPA's Proposed Amendments for National Emissions Standards for Hazardous Air Pollutants for Phosphoric Acid Manufacturing and Phosphate Fertilizer Production (79 FR 66512)*
- *Potential Impacts of the EPA Clean Power Plan*
- *Assessing Economic Impacts of a Stricter National Ambient Air Quality Standard for Ozone*
- *Technical Comments on Proposed Amendments for National Emissions Standards for Hazardous Air Pollutants for Phosphoric Acid Manufacturing and Phosphate Fertilizer Production (79 FR 66512)*
- *Economic Outcomes of a US Carbon Tax*
- *A Comprehensive Financial and Economic Assessment of Future Iowa Baseload Generation in a Carbon-Constrained Environment*
- *Economic Implications of Recent and Anticipated EPA Regulations Affecting the Electricity Sector*
- *An Economic Impact Analysis of EPA's Mercury and Air Toxics Standards Rule*

Practice Areas

Energy

Environmental Economics

International Arbitration

About NERA

NERA Economic Consulting (www.nera.com) is a global firm of experts dedicated to applying economic, finance, and quantitative principles to complex business and legal challenges. For over half a century, NERA's economists have been creating strategies, studies, reports, expert testimony, and policy recommendations for government authorities and the world's leading law firms and corporations. With its main office in New York City, NERA serves clients from more than 25 offices across North America, Europe, and Asia Pacific.