

Join us on the second Thursday of every month for a series of "brown bag" seminars sponsored by the National Renewable Energy Laboratory and the U.S. Department of Energy. Each seminar is held at NREL's Washington offices with a video-conference link to Golden, Colorado. Topics focus on new and innovative renewable energy and energy analysis strategies, models, and technologies.



Energy Analysis Seminar Series

A "brown bag" analytical seminar series

Aligning the Nation's Clean Air and Clean Energy Goals

(A project by Alison Bailie, Steve Bernow, Bill Dougherty, and Ben Runkle)

Presented by Alison Bailie

Tellus Institute

Thursday, May 9

Noon–1 p.m.

The combustion of fossil fuel for electricity production, transportation, and industrial processes is the principle source of emissions of sulfur oxides, nitrogen oxides, carbon dioxide, mercury, and hazardous air pollutant emissions in the United States. Renewable energy often has been overlooked and clearly undervalued as a viable strategy in reducing pollutant emissions and thereby helping to meet the nation's air-quality goals. This project investigates policies governing electricity production that aim to harmonize the national goals of clean air and clean energy, by exploring synergies between policies directed at emissions reductions and policies directed at stimulating increased use of renewable energy resources and technologies. This seminar will examine the use of the National Energy Modeling System (NEMS) to analyze (1) strengthening the renewable energy set-aside option offered by the 1990 Clean Air Act Amendments, (2) including set-asides in the cap-and-trade programs for NO_x , and (3) applying a national Renewable Portfolio Standard.

Alison Bailie is an associate scientist in the Energy and Environment group at Tellus. Her area of expertise is energy-policy modeling and analysis, particularly focusing on environmental policies designed to reduce greenhouse gas emissions. Her current work involves using the National Energy Modeling System (NEMS) to analyze energy policies in the United States. Prior to joining Tellus in February 2001, Ms. Bailie worked as a consultant for a research group in Canada. She received her master's of Natural Resource Management from Simon Fraser University, British Columbia, Canada, in 1994. Her research project is discussed in the paper, "CO₂ Emission Reduction Costs in the Residential Sector: Behavioral Parameters in a Bottom-Up Simulation Model."

370 L' Enfant Promenade is located adjacent to the Forrestal building at 901 D Street SW in downtown Washington (Aerospace Building). Please contact Wanda Addison at NREL at 202-646-5278 or wanda_addison@nrel.gov

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