

Energy & Security

Cleaning up Cookstoves in India: Impacts, Opportunities and Challenges

Andrew Grieshop, **NCSU**



Billions of households in less developed countries use solid fuels like wood and dung in rudimentary stoves to meet their household energy needs. Emissions from these stoves contribute to over 4 million premature deaths annually and have outsized impacts on the global and regional climate and environment. The scale and ubiquity of the problem has recently garnered attention and spurred a variety of initiatives to address these problems by upgrading stoves and fuels. In this talk, Andrew Grieshop will provide background on the scale and scope of the problems associated with something as mundane as cooking. The focus will then shift to results from ongoing experimental work in India to evaluate and explore ways to address the threat in the kitchen. Data from an evaluation of a carbon-offset-funded stove replacement effort demonstrates the complexity associated with cleaning the kitchen air. Finally, Dr. Grieshop will discuss new efforts to study ways that adoption of new technologies may be encouraged to provide benefits to both families and the global environment.

Andrew Grieshop (Ph.D. Carnegie Mellon University) is an Assistant Professor in the Department of Civil, Construction, and Environmental Engineering, NCSU. His research focuses on interactions between energy use and the environment, and more specifically on improving our technical understanding of the emission and atmospheric transformations of air pollutants.

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11:45 am - 1:30 pm
Room 129
1911 Building, NCSU
Luncheon Served

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