Choice of U.S. energy systems, from electricity production to transportation, impact health-damaging air pollution across the country. These changes are intertwined with climate change, international development, and regulatory policy. As we consider strategies that move toward renewable, domestic resources, one of the most direct environmental benefits is clean air. Holloway and her research group focus on processes controlling ground-level ozone and particulate matter, from emission sources to chemistry and meteorology. Using advanced computer models, satellite data, and ground-based measurements, she works to evaluate the air quality and public health impacts of energy conservation, renewable electricity, and transportation alternatives.

Professor Tracey Holloway
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Holloway directs the Center for Sustainability and the Global Environment (SAGE), a cross-disciplinary research center based in the Nelson Institute for Environmental Studies at the University of Wisconsin--Madison. Her research examines air pollution chemistry and transport at regional and global scales, including links between air quality and climate, energy, land use, health, and public policy. Holloway is a Brown University alumna, with an Sc.B. in Applied Mathematics. She earned her Ph.D. in Atmospheric Oceanic Sciences from Princeton University in 2001, and completed a certificate in Science, Technology, and Environmental Policy from the Woodrow Wilson School of Public and International Affairs.