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Profile

Mr. Hansen explores resource and environmental problems and solutions in three areas: water, energy, and land. He manages interdisciplinary research teams, performs quantitative and qualitative policy and scientific analyses, provides litigation support and expert testimony, develops computer tools, provides training, and performs field monitoring.

Skills and Experience

Considerable experience working with watershed organizations and agencies on Clean Water Act and Surface Mining Control and Reclamation Act issues such as permits, TMDLs, antidegradation, and watershed-based plans.

Organized and conducted training workshops for watershed organizations and permittees to promote informed public participation and permit compliance.

Provided expert testimony before appeals boards on NPDES and coal mining permits, before the West Virginia Public Service Commission on water quality issues, and in federal court.

Managed projects related to local economic benefits of acid mine drainage remediation and wind power development.

Researched opportunities for landfill gas-to-energy projects and the generation of carbon credits.

Developed and applied computer models to help clarify solutions to environmental problems.

Served on several committees that help set water-related policies at the state and local levels.

Interfaced effectively with government agencies.

Provided consulting services in Zimbabwe, South Africa, Zambia, Tanzania, Namibia, China, and Egypt.

Education

M.S., Energy and Resources, University of California, Berkeley, 1997. This interdisciplinary program combines environmental science, public policy, economics, and engineering.

B.S., Computer Science and Engineering, Massachusetts Institute of Technology, 1988.

Representative Publications

Economic Development Research Group and Downstream Strategies. 2011. Failure to act: the economic impact of current investment trends in water and wastewater treatment infrastructure. Prepared for American Society of Civil Engineers. (DS authors: E Hansen and A Hereford.)

Hansen E, Zegre S, Hereford A. 2011. Elk headwaters watershed protection plan. Submitted to West Virginia Department of Environmental Protection. Downstream Strategies.

Hoornbeek J, Hansen E, Hereford A, Filla J, Satpathi S. 2011. Measuring water quality improvements: TMDL implementation progress, indicators, and tracking. Submitted to United States Environmental Protection Agency. Kent State University Center for Public Administration and Public Policy and Downstream Strategies.

Hansen E, Collins A, Zegre S, Hereford A. 2010. The benefits of acid mine drainage remediation on the North Branch Potomac River. Prepared for Maryland State Water Quality Advisory Committee. Downstream Strategies.

Hansen E, Hereford A, Boettner F, Zegre S. 2010. Plants not pipes: promoting green infrastructure and its side benefits in Region VI. Prepared for Region VI Planning and Development Council. Downstream Strategies.

Hansen E, Hereford A, McIlmoil, R. 2010. Orange water, green jobs. *Solutions*, v 1, no 4.

McIlmoil R, Hansen E. 2010. The decline of Central Appalachian coal and the need for economic diversification. *Thinking Downstream: White Paper #1*. Downstream Strategies.

Hansen E, Boettner F, White T, Boettner T, Miller P. 2009. Taxing West Virginia's coal reserves: a primer. WV Ctr on Budget & Policy and Downstream Strategies.