

Glade Michael Sowards

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EDUCATION

Master of Science in Forestry, Michigan Technological University, Houghton, Michigan (May 1998)

Bachelor of Arts in Economics with Concentration in Environmental Studies, Grinnell College, Grinnell, Iowa (May 1994)

PROFESSIONAL EXPERIENCE

Beehive Emission Reduction Plan Coordinator (December 2022-Present)

Led effort to apply for Climate Pollution Reduction Grant (CPRG) Phase I Planning Grant funding for the State of Utah, coordinated efforts to develop and submit the *Beehive Emission Reduction Plan: Priority Plan* in fulfillment of the CPRG Priority Climate Action Plan (PCAP) program deliverable, assisted in the development of a CPRG Phase II Implementation Grant application.

Policy Analyst/Senior Policy Analyst, Utah Division of Air Quality (September 2005-Present)

Served as 111(d) coordinator for the Affordable Clean Energy (ACE) and Clean Power Plan (CPP) rules to address greenhouse gas (GHG) emissions from electric generating units, assisted in the development of comments on various 111(d) proposals, participated in State Implementation Plan (SIP) development including Round 2 Regional Haze SIP and various iterations of the PM2.5 SIP, participated in GHG and energy efficiency policy initiatives including serving as lead staffer for both the Utah Blue Ribbon Advisory Council on Climate Change and as a member of Utah's delegation to the Western Climate Initiative (WCI), and assisted in the development of a GHG emissions inventory for Utah.

State Energy Program Manager, Utah Geological Survey (April 2005-September 2005)

Managed DOE-funded state energy conservation, energy efficiency, and renewable energy program for the Utah Department of Natural Resources (DNR).

Energy and Natural Resource Analyst, Utah Energy Office (formerly the Utah Office of Energy and Resource Planning; January 1998-April 2005)

Served as Data and Analysis Section manager, organized and implemented research projects, successfully wrote grants for DOE funding for energy/air quality coordination on SIPs and for a State utility bill tracking system, participated in an EPA-sponsored study of GHG mitigation strategies, served as project lead for the Power Forward electricity conservation initiative, aided in redesigning the Utah Energy Data Information System (EDIS), edited the Utah Energy Statistical Abstract, assisted with data forecasting and modeling, and helped fulfill requests for

energy and natural resources data.

Graduate Research Assistant, Michigan Technological University (September 1994-December 1997)

Coordinated a national economic research project on timber transportation structures for the USDA Forest Service Forest Products Laboratory, surveyed subjects, recorded responses, maintained a project database, conducted statistical analyses, and presented study findings.

Research Analyst, Utah Office of Energy and Resource Planning (June 1994-August 1994)

Conducted research, helped maintain Utah Energy Data Information System (EDIS), conducted fuel price surveys, and drafted reports.

PUBLICATIONS

DEQ Staff Report, 2007. *Blue Ribbon Advisory Council on Climate Change Report to Governor Jon M. Huntsman, Jr.* Utah Department of Environmental Quality. Salt Lake City, Utah.

Blackett, Robert E., Sowards, Glade M., and Trimmer, Edie. 2003. *Utah's High Temperature Geothermal Resource Potential: Analyses of Selected Sites.* Utah Department of Natural Resources. Salt Lake City, Utah.

Orr, Blair, Coole Jr., Charles H., and Sowards, Glade M. 2000. *Costs of demonstration projects: a study of timber bridge construction.* J. of Transportation Engineering 126(3):279-281.

OERP Staff Report, 1999. *Carbon Dioxide Reduction Strategies in Utah: An Economic and Policy Analysis.* Utah Office of Energy and Resource Planning. Salt Lake City, Utah.

Sowards, Glade Michael. 1998. *A comparison of initial superstructure costs of timber bridges with those of steel, concrete and prestressed concrete bridges.* A thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in Forestry, Michigan Technological University.

Sowards, Glade Michael, Wang, John Z., Orr, Blair, and Stanfill-McMillan, Kim. 1996. "National Cost Study of Timber Bridges." in Ritter, Michael A. et al. (eds) *National Conference on Wood Transportation Structures.* USDA - Forest Service General Technical Report FPL-GTR-94. Madison, WI.

KEY WORK ASSIGNMENTS AND ROLES

The Utah Roadmap: Positive Solutions on climate and air quality (2019-2020)

Served on the Technical Advisory Committee for climate and air quality planning effort led by the University of Utah Kem C. Gardner Policy Institute that culminated in the development of a policy roadmap to assist with legislative policymaking to improve air quality and causes and impacts of a changing climate.

Western Climate Initiative (2007-2010)

Served as lead technical staffer supporting the State of Utah's participation in the Western Climate Initiative (WCI), helped coordinate research conducted by the Duke University Nicholas Institute for Environmental Policy Solutions in support of establishing a GHG emissions reduction goal for Utah, assisted in the early development of a cap and trade program for several western states and Canadian provinces.

Utah Blue Ribbon Advisory Council on Climate Change (2006-2007)

Served as lead staffer for a comprehensive, statewide stakeholder initiative to identify GHG emission reduction strategies, and helped to develop and refine a GHG emissions inventory for Utah.

Potential for Geothermal Electric Power Generation in Utah for U.S. Department of Energy (2001-2003)

Assisted in comparing the geothermal electric power generation potential of several Utah sites, presented a paper at the Geothermal Resources Council Annual Conference, and helped to draft the final project report.

GHG Mitigation Strategy Assessment (1998-2000)

Assisted senior economist in conducting an EPA-funded cost study and comparative ranking of various GHG mitigation strategies across all energy sectors in Utah.