

Stanton W. Hadley

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PROFESSIONAL EXPERIENCE

UT-Battelle, LLC. (and predecessors)

1992 - Present Systems Engineer, Electrical & Electronic Systems Research Division

Accomplishments

Developed a project finance modeling tool for the DOE Office of Energy Policy and Systems Analysis that calculates the finances over the life of an electricity generating project in each of the fifty states under a variety of financial, regulatory, and tax policy conditions. It allows policy analysts to quickly examine and visualize the impact of various policies on a variety of generation technologies.

Conducted studies on economics of co-optimized capacity expansion of generation and transmission in the EI using the PLEXOS computer code, showing how the variability of wind generation must be considered in the expansion plans in order to optimize the cost.

Led ORNL efforts as technical advisor to the Eastern Interconnection States Planning Council and Eastern Interconnection Planning Collaborative in the development of the first long-term transmission planning study covering the entire Eastern U.S. and involving all of the transmission planning authorities, states, and other stakeholders in the region. Led a team in the development of studies on the potential for energy efficiency and demand response in the Eastern Interconnection.

Developed a regional competitive bulk power market model (ORCED) for the Department of Energy, Environmental Protection Agency, and Federal Energy Regulatory Commission to analyze the effect of deregulation on generating plant profitability, prices, carbon emissions, and other factors. Built model in 1996 and used since then in numerous studies, including:

- The effect of different Demand Response program designs and levels on the system,
- The impact of plug-in hybrid electric vehicles on grid capacity and emissions,
- The plant-specific emission changes in the Southeast from energy efficiency programs,
- The emissions and cost impact of central energy displacement by distributed generation,
- The impact of energy efficiency and generation technologies on national carbon emissions,
- The electricity price impact of industry restructuring on the Pacific Northwest and on Oklahoma,

- The changes in CO₂ emissions in the ECAR electric reliability region under varying carbon taxes,
- The potential for biomass cofiring in each region of the country,
- The impacts of hydropower on carbon emissions, and
- Other studies related to electric industry restructuring.

As ORNL Wind Program Manager, coordinated the different wind-related projects at ORNL and led efforts to build a program beyond its initial \$1.5 million base.

Worked with EPRI to evaluate the potential for transmission of wind energy to the southeast U.S. in response to a Renewable Portfolio Standard. In addition, assisted EPRI in analysis of the impact of changing the responsibility for balancing variable generation between the Southwest and Southeast.

Worked with PNNL, LBNL, and NREL to develop regional electricity demand profiles for 2010-2050 for residential, commercial, and industrial end-users under both high and low efficiency efforts. This information was used in the DOE Renewable Electricity Futures study.

Worked with Sentech and others to evaluate the value propositions involved in the plug-in hybrid electric vehicle market. This included using the ORCED model to develop load shapes for charging hybrid electric vehicles and determine the generation mix affected by the charging.

Used the National Energy Modeling System (NEMS) to analyze the potential savings from energy efficiency programs and technologies for the state of Iowa and the savings from energy efficiency plus the penetration of renewable energy in the state of North Carolina.

Modified the NEMS model to incorporate annually varying heating and cooling loads. Used this model (DD-NEMS) and data from a global climate simulator PCM-IBIS to analyze the impact of climate change on the heating and cooling energy requirements in each U.S. Census region.

Evaluated the energy impact of extending Daylight Saving Time to early March and November. The study was initiated due to the time changes and reporting requirement legislated in the Energy Policy Act of 2005.

Evaluated the market and potential of mobile electric transformers and substations to improve the energy security and reliability of the domestic electric grid. The paper was required as part of the Energy Policy Act of 2005.

Led a multi-million dollar ORNL program over eight years working for the Department of Energy, Argonne National Laboratory and the Department of Homeland Security to conduct Site Assist Visits at numerous critical infrastructure facilities around the country. The resulting assessments were compiled into classified reports and incorporated into the National Asset Database of critical infrastructure. The program also provided support to DHS developing background packages of critical infrastructure facilities and data mining of reports. Visits also included a two-week field assignment to Mississippi and Louisiana following Hurricane Katrina to evaluate infrastructure response.

Assisted in the assessment of a Regional Technology Integration Initiative for the Memphis region. This evaluation considered the homeland security response of critical infrastructure both in prevention of possible disasters and in response to regional emergencies.

Assisted in creating a factual document of energy use and potential energy technologies for the Basic Energy Sciences Advisory Council for their deliberations on key basic science research needs to assure

energy security. Also, created a series of white papers on potential energy efficiency technologies for the National Commission on Energy Policy.

Used various national surveys and databases to calculate the potential for Combined Heat and Power (CHP) projects in federal facilities across the country. The results were segregated by type of buildings, agency, size, and state in order to better identify target opportunities for CHP.

Assisted the Department of Energy's Office of Critical Infrastructure Protection in development of their Research Program Plan for FY2001 and was named the ORNL contact for that office. Assisted in vulnerability assessments of national critical energy facilities. Prepared a white paper requested by DOE's Office of Building Technologies concerning "September 11 and National Security Implications for the Built Environment".

Participated in the Clean Energy Futures study and was the main author for the Electricity Sector chapter. This study analyzed the potential impacts of various national energy policies to lower the emissions of carbon and other pollutants. It involved researchers from five national laboratories and used a version of the NEMS model from the Energy Information Administration. The study built on the 1997 5-Lab study that evaluated carbon reduction scenarios.

Analyzed the economics of the process steps for manufacturing lightweight materials such as aluminum and titanium for use in lightweight vehicles. This involved research on all steps from mining of raw materials to assembly of final components, and included the use of a detailed model of the aluminum rolling industry.

Developed an electric utility financial and production-costing model (ORFIN). It has been used in studies on electric utility restructuring, retail wheeling, stranded investments, the financial impact of demand-side management, and performance-based rates. It was translated into Russian for use by Russian utility executives and analysts. Numerous other private sector and regulatory groups have requested copies of the model for use in their own studies.

Performed financial analyses of treatment options involving consolidated procurements from private firms for mixed low level waste across the DOE complex and for Lockheed Martin-managed sites.

Assisted in a life cycle analysis of recycling versus disposal of the scrap metal from Building K-31 of the DOE K-25 site. Applied the LCA concepts to a study of the advisability of recycling scrap metal from the environmental restoration of the DOE facility at Fernald, Ohio.

Performed an analysis of electric utility operational, financial, and demand-side management program data for use by the Energy Information Administration.

Analyzed the effects of current tax and ratemaking policies on renewable energy versus conventional energy projects for a Congressional report. Compared the relative effects for the existence of barriers or incentives for renewable energy.

Conducted a study of publicly-owned utilities that successfully implement demand-side management. Determined some of the causes behind their success in order to improve demand-side management programs at similar utilities.

Earned a Martin Marietta Energy Systems Significant Event Award for development of ORNL's Environmental, Safety and Health Management Plan for FY 1996-2000.

1992 ORNL Assessment Program Deputy Manager

Accomplishments

Provided expert assistance on risk-based prioritization to the DOE Safety & Health Five Year Plan national effort, including nation-wide training. Coordinated presentation of the DOE Facility Performance Monitoring Course to ORNL facility managers and other staff.

1989 - 1992 Technical Assistant to the Oak Ridge National Laboratory (ORNL) Associate Laboratory Directors for Environmental, Safety, and Health (ES&H) Compliance; Chemical, Environmental, and Health Protection Technologies; and Reactor Systems.

Accomplishments

Developed the strategic implementation plan for ES&H issues at ORNL. Provided support in coordination of interactions with DOE and senior management (e.g., Performance Evaluation Committee, Institutional Plan, On-Site Review, Microbudget).

Coordinated ORNL efforts in development and use of the Energy Systems risk-based prioritization matrix for evaluation of Tiger Team and other ES&H assessments and issues. Served as the ORNL representative on the Energy Systems Risk Matrix Board.

Served on the functional design committee in development of the Energy Systems Action Management System, a mainframe database for tracking issues and corrective actions.

Co-authored an article for the ORNL Review proposing the creation of a center of excellence for research reactors, a concept that became an ORNL initiative.

1981 - 1989 Engineer in the Operations Analysis and Planning Division (Strategic Planning Department) for Uranium Enrichment

Accomplishments

Organized a strategic planning process for the Uranium Enrichment Activity involving DOE top management and all contractors. Assisted in creation of the Uranium Enrichment government corporation.

Developed enrichment pricing and finance models, power purchase optimizing models, and enrichment operations models for senior management. Analyzed effects on the enrichment business due to technological, business, and institutional changes.

Analyzed spent fuel storage, reprocessing and disposal requirements and cost projections, nuclear and electric power growth forecasts, and fuel cycle model calculations.

Other Experience

1980 Summer Graduate Student with Sandia National Laboratory

Assisted with nuclear plant cable-tray fire and turbine missile impact testing,

including computer program development and field work.

- 1978, 1979** Engineer/Technician with Performance Testing & Consultants, Inc.
Assisted with flue gas analysis and heat rate testing at coal-fired electric power plants. In charge of computer program development and maintenance.
- 1977** Technician with Burns and McDonnell, architect/engineers
Assisted with flue gas analysis at coal-fired power plants.

EDUCATION

- 1979 - 81 MS in Nuclear Engineering
MS in Engineering Management
University of Missouri-Rolla.
- 1975 - 79 BS in Nuclear Engineering
University of Missouri-Rolla.

Thesis Topic

“A Study on the Optimum Planning Reserve Margin for the Missouri Electric System using the Over/Under Capacity Planning Model”

PUBLICATIONS

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<http://info.ornl.gov/sites/publications/Files/Pub47594.pdf>
- Kou, Gefei, Stanton W. Hadley, Penn N. Markham, Yilu Liu, *Developing Generic Dynamic Models for the 2030 Eastern Interconnection Grid*. ORNL/TM-2013/545. Oak Ridge, TN: Oak Ridge National Laboratory, December 2013.
<http://info.ornl.gov/sites/publications/Files/Pub47049.pdf>
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- Eastern Interconnection Planning Collaborative, *Phase 2 Report: DOE Draft – Appendices Interregional Transmission Development and Analysis for Three Stakeholder Selected Scenarios*, EIPC, December 2012. http://www.eipconline.com/uploads/20130103_Phase2Report_Part3_Final.pdf
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Hadley, S. W., T. K. Stovall, and J. W. Van Dyke, *Customer-Owned Utilities and Distributed Energy: Potentials and Benefits*, ORNL/TM-2005/257, Oak Ridge National Laboratory, February 2006.
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