

RICHARD E. BROWN

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EMPLOYMENT

- 1991-Present Lawrence Berkeley National Laboratory, Energy Analysis Department.
Research Scientist (2002-present) and deputy group leader / Staff
Research Associate (1996-2002) / Principal Research Associate (1994-
96) / Senior Research Associate (1991-94).
Analyze markets and energy savings potential for energy-efficient
products; advise U.S. Environmental Protection Agency and U.S.
Department of Energy on the design of energy efficiency programs;
evaluate energy savings impact of programs. Collect primary and
secondary data, build and run energy models, prepare technical
reports. Principal investigator on projects with ~\$2M annual budget;
interact with clients to determine needs and plan analyses.
- Major accomplishments:
- Leading the team that prepared the U.S. EPA's 2007 report to Congress on energy efficiency in servers and data centers.
 - Initiating LBNL technical support to the U.S. EPA's ENERGY STAR program and helping to manage the growth of that project from one to ten full-time staff members.
 - Managing the technical and content development of the Home Energy Saver (hes.lbl.gov), Home Energy Advisor (advisor.lbl.gov) and 20% Solution (savepower.lbl.gov) web sites -- developed by LBNL to help consumers make their homes more energy efficient.
 - Leading a team that estimate the carbon dioxide and energy bill savings potential of the ENERGY STAR programs.
 - Publishing the most comprehensive historical analysis of electricity use in California leading up to the 2001 power crisis (2002).
 - Estimating the achievable potential for electricity efficiency improvements in the U.S. residential sector in 1993.
- 1986-1990 U.S. Air Force, Space Systems Division, El Segundo, CA.
First Lieutenant; Job title: Project Engineer.
Managed and performed satellite design and feasibility studies, large-scale computer simulations, and satellite cost modeling.
Communicated findings in technical reports and oral presentations for General officers and civilian Department of Defense decision-makers.

EDUCATION

- 1993 UNIVERSITY OF CALIFORNIA, Berkeley, CA
M.A., Energy and Resources Group.
Interdisciplinary energy analysis and environmental studies, with emphasis on energy-efficiency policy analysis.
Master's Project: "The Achievable Potential for Electricity-Efficiency Improvements in U.S. Residences."
- 1986 PRINCETON UNIVERSITY, Princeton, NJ
B.S.E., Cum Laude, Engineering and Management Systems.
Coursework in operations research and management science, with emphasis on computer applications of mathematical models.
Honors: Air Force ROTC 4-year scholarship.

CONSULTING AND VOLUNTEER

Community Energy Services Corporation, Berkeley, CA. Secretary/Treasurer (volunteer); non-profit providing energy efficiency retrofits for municipal facilities and low-income residences.

Consultant on load forecasting and energy efficiency issues to Central Maine Power Company and the Hong Kong government.

Summer intern in Environmentally-Compatible Energy Strategies Group, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria.

AWARDS

- 2008 LBNL outstanding performance award for lead role in preparing the U.S. EPA's report to Congress on energy efficiency in data centers.
- 2001 LBNL outstanding performance award for developing the 20% Solution web site to help consumers participate in the CA 20/20 Rebate program.
- 1999 LBNL SPOT award for developing the Home Energy Saver web site.
- 1996 LBNL outstanding performance award for lead role in establishing project to provide technical support to U.S. EPA's ENERGY STAR programs.
- 1990 U.S. Air Force Meritorious Service Medal for outstanding contributions to project (usually awarded to officers with 10-15 years of military service).
- Computer Skills: *Languages:* Perl, APL, BASIC, HTML. Spreadsheet, graphics, GIS, and statistical applications on Mac, Windows, and Unix.