

## RICHARD E. BROWN

Lawrence Berkeley National Laboratory  
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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. Conduct field studies of  
energy use in buildings, develop 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:
- Led the team that prepared the U.S. EPA's 2007 report to Congress on energy efficiency in servers and data centers.
  - Initiated LBNL's technical support to the U.S. EPA's ENERGY STAR program and helped to manage the growth of that project from one to ten full-time staff members.
  - Managed the technical and content development of the Home Energy Saver ([hes.lbl.gov](http://hes.lbl.gov), [hespro.lbl.gov](http://hespro.lbl.gov)), Home Energy Advisor ([advisor.lbl.gov](http://advisor.lbl.gov)) and 20% Solution ([savepower.lbl.gov](http://savepower.lbl.gov)) web sites -- developed by LBNL to help make U.S. homes more energy efficient.
  - Lead author of joint U.S. DOE/EPA green power purchasing guide.
  - Led a team that estimated the carbon dioxide and energy bill savings potential of the ENERGY STAR programs.
  - Published the most comprehensive historical analysis of electricity use in California leading up to the 2001 power crisis (2002).
- 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.
- Consultant on load forecasting and energy efficiency issues to Central Maine Power Company and the Hong Kong government.
- Summer intern, International Institute for Applied Systems Analysis (IIASA), Austria.

## AWARDS

- 2010 R&D 100 award for licensing the Home Energy Saver software to Microsoft Corporation.
- 2009 LBNL outstanding performance award for lead role in developing the Home Energy Saver Pro web site.
- 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.
- 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 Linux.