

## DAVID N. HOWARTH

### PROFESSIONAL EXPERIENCE

**Principal**  
**MRW & Associates, LLC**  
**(9/96 - Present)**

Specializes in quantitative and qualitative analysis of energy economics, policy and technology issues. Clients include energy project developers, owners, lenders, public agencies, and end users. His current focus is on utility procurement issues and energy project development. He is an expert on renewable energy policy and has worked with a number of renewable energy project developers in the western states and Hawaii, providing analytical support to their development efforts. Activities have included construction of pro forma financial models, bid support for utility RFOs and analysis of QF energy pricing for existing projects. He has also worked with customers and distributed generation suppliers to analyze supply options and utility bill impacts. He has participated in policy studies on the need to replace aging generation infrastructure in California and on the status of nuclear generation and waste storage facilities. Other work has included litigation support, market due diligence, and contract negotiation support.

**Associate**  
**RDC, Inc.**  
**(9/93 - 9/94) Independent Consultant (9/94 - 9/96)**

Provided management consulting services, including strategic business planning and subcontractor management, to developer of a flywheel energy storage system for transportation and stationary applications. Performed market study for manufacturer of small, advanced gas turbines. Researched electric utility, oil and gas, and manufacturing industries to identify technical and market opportunities for small gas turbines. Completed assessment of emerging market for fiber optic communications installed along electric utility rights-of-way. Identified and characterized industrial processes for which electricity-to-gas energy substitution opportunities exist to support utility demand-side management efforts.

**Analyst**  
**Global Change Unit, ICF Incorporated**  
**(9/89 - 7/93)**

Performed quantitative analyses and wrote reports and briefings for large consulting firm providing environmental and economic services to governmental and private-sector clients. Co-authored EPA study of the potential for renewable sources of electricity to reduce air pollution. Developed models to analyze the long-term impacts of U.S. government programs to increase carbon storage in forests and to reduce greenhouse gas emissions from agricultural sources. Participated in a variety of regulatory studies of selected toxic substances for USEPA. Analyzed the operations and financial performance of multinational corporations to determine profit levels consistent with a fair treatment of transfers with their foreign subsidiaries.

### EDUCATION

M.A., Energy and Resources Group, University of California, Berkeley, 1996  
B.A., Economics and high honors in Biology, Wesleyan University, 1989