



Gabel Associates, LLC, is a building energy consulting firm located in Berkeley, California. Gabel Associates specializes in building energy analysis, energy code compliance, life-cycle cost evaluation, local energy ordinance research and development, technical writing and professional training (see www.gabelenergy.com)

Gabel Associates' current experience and qualifications include:

- Consultant to over 2000 clients since 1981, including architects, builders, designers, mechanical contractors, engineers and homeowners: educating and assisting the building industry in analyzing and documenting prescriptive and performance compliance with the California Building Energy Efficiency Standards for hundreds of residential and nonresidential buildings each year.
- Assisting clients exceed residential and nonresidential energy standards to meet local green building ordinances, to receive utility incentives, to be eligible for solar PV and affordable housing tax credits and state energy grants for public schools.
- LEED energy modeling, consulting and documentation on New Construction, Core & Shell, Major Renovations, Existing Buildings Operations and Maintenance, Commercial Interiors, Schools and Healthcare projects.
- GreenPoint Rated (GPR) energy modeling for new and existing single family and multi-family buildings.
- Energy analysis of residential and commercial buildings for Zero Net Energy (ZNE) performance and Life-Cycle Cost (LCC) studies.
- Work with the PG&E Codes & Standards Program providing support in the development of new Title 24 training curricula for building department staff and energy consultants; and in teaching
- Instructor of professional seminars on the Building Energy Efficiency Standards sponsored by the investor-owned utilities (IOUs) for energy consultants and building department staff; and at advanced trainings sponsored by the California Association of Building Energy Consultants (CABEC).
- Consultant to several dozen local governments on the development, adoption and state approval of green building and energy ordinances that exceed state energy standards sponsored by the utilities' statewide Codes & Standards program.
- Technical specialist and consultant to development of new Certified Energy Analyst (CEA) Residential and Nonresidential examinations for the 2013 energy standards sponsored by the IOUs statewide Codes & Standards program.
- Consultant on the development and implementation of the 2013 Building Energy Efficiency Standards and 2013 Tier 1 CALGreen "reach codes" sponsored by the IOUs statewide Codes & Standards program.

Selected past work includes:

- Consultant to the City of Berkeley on the development of a green building ordinance and revisions to its Residential Energy Conservation Ordinance (RECO) (2008 – 2010).
- Consultant to the City of Hayward on the development of a new Residential Energy Conservation Ordinance (RECO) with Quantum Energy Services Technologies Inc. (2010).
- Energy Coordinator for the West Contra Costa Unified School District (WCCUSD) for its upgrade of 51 schools as part of the Measure M and Measure D bonds. (2003 to 2006). WCCUSD has received approximately \$1.0 million in energy grant funding from the state.
- Energy Review Consultant (ERC) to the Division of the State Architect as an energy plan reviewer of modular portable classrooms, and of new schools applying for the Proposition 47 Energy Grant program (2003).
- Designer and developer of COMPLY 24, an energy compliance program (pre-cursor to Energy Pro) for both residential and nonresidential Title 24 compliance analysis (1984 to 1996). Provided user support on COMPLY 24 (1984 – 1996).
- Plan checkers and consultants for PG&E's California Comfort Home program, which provides incentives for energy conservation features in new residential construction (1993 to 1995). Helped design and develop the 1994 California Comfort Homes program.
- Author of the State of California's *Residential Manual for Compliance with the Energy Efficiency Standards* (1988, 1992, 1995) and *Residential Workbook* (1992).
- Consultant to PG&E to develop the 1994 incentive program for Manufactured Homes.
- Co-author of the *Nonresidential ACM Manual* for the State of California's 1992 Energy Efficiency Standards, including revision of compliance assumptions, development of new custom budgets and designing new nonresidential compliance forms.
- Developer of training materials for Building Officials throughout California through the California Building Codes Institute (CBCI) on Plan Check of Computer Methods for the Residential Performance Standards and Energy Principles (1990). Wrote questions for the CBCI certification exam on both residential and nonresidential energy performance methods (1990).
- Members of the California Association of Building Energy Consultants (CABEC).

Key Personnel:

- Michael D. Gabel, Principal: Residential/Nonresidential CEPE, CEA
- Rosemary E. Howley, Senior Associate: Residential/Nonresidential CEPE, CEA, Build It Green Certified Green Building Professional
- Gina Rodda, Senior Associate: Residential/Nonresidential CEPE, CEA, LEED AP
- Marina Chavez, Energy Analyst: Residential CEPE, CEA
- Tomita Shimamoto, Office Manager