

## Erik Kolderup, PE, LEED AP

Mr. Kolderup provides technical consulting services, focusing on the sustainable, energy efficient design and construction of commercial and institutional buildings. He identifies and evaluates design alternatives to optimize the integrated performance of a building's systems. He employs computer simulation tools and other analysis methods to assist building designers in planning, designing, and specifying high performance systems. His experience covers envelope, lighting, daylighting, natural ventilation, and HVAC systems. His special interest is developing integrated design strategies for natural ventilation and daylighting. He also teaches a Stanford University class on energy efficient building design.

Mr. Kolderup is based in San Francisco, California and has provided sustainability and energy consulting services since 1990, when he joined Eley Associates as an energy engineer. He became an owner in 1994 and served as vice president until the firm's merger with Architectural Energy Corporation in 2004. After three years as Associate Principal, sharing management of AEC's San Francisco office, Mr. Kolderup started Kolderup Consulting in 2007.

### Design Consulting Experience

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Mr. Kolderup's experience includes life-cycle cost analysis, LEED energy calculations, energy code compliance, and utility incentive calculations. He has provided design consulting services for hundreds of buildings, including:

- Optisolar Inc, PV Manufacturing Facility, 1,000,000 ft<sup>2</sup>, Sacramento, CA
- Cal Poly San Luis Obispo, Poly Canyon Village Dormitories, 822,000 ft<sup>2</sup>
- CalSTRS Headquarters Office Building, 400,000 ft<sup>2</sup>, West Sacramento, CA
- East Contra Costa County Courthouse, 70,000 ft<sup>2</sup>, Pittsburg, CA
- Ebay Building 17 Office Building, 130,000 ft<sup>2</sup>, San Jose, CA
- Lincoln High School Bungalow Replacement Building, 18,000 ft<sup>2</sup>, San Francisco, CA
- Mills Peninsula Hospital, 360,000 ft<sup>2</sup>, Burlingame, CA
- San Francisco International Airport West Field Cargo Building, 88,000 ft<sup>2</sup>, San Francisco, CA
- Oakland Airport Terminal 2 Extension, Oakland, CA
- Georgina Blach Middle School, Los Altos, CA
- "Casa Nueva" Santa Barbara County Office Building, Santa Barbara, CA
- SFPUC Emergency Operations Center, 15,000 ft<sup>2</sup>, San Francisco, CA
- Grass Valley Animal Shelter, 7,000 ft<sup>2</sup>, Grass Valley, CA
- Sustainable Design Standards, San Francisco Unified School District

### Presentation and Training Experience

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Mr. Kolderup has extensive experience developing and presenting training for building industry professionals and public agency employees on topics including energy efficient design, energy code compliance, simulation software usage, LEED energy calculations, and commissioning. His training programs include:

- Stanford University – Lecturer, Civil & Environmental Engineering 156/256 *Building Systems*, Spring 2008 & 2009
- High Performance School Design – Collaborative for High Performance Schools (CHPS)
- Exceeding Title 24 for Offices, Schools, Laboratories, and Retail Buildings – PG&E
- VisualDOE energy simulation software and LEED energy performance calculations – Eley Associates and Architectural Energy Corporation
- Commissioning for Small Buildings, California Department of General Services – California Energy Commission
- Hawaii Energy Code Compliance and Software Usage – State of Hawaii
- New Mexico Energy Code Compliance – State of New Mexico

### Select Publications

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*Hawaii Commercial Building Guidelines for Energy Efficiency*. State of Hawaii. 360 pages. 2004  
e-News, monthly newsletter for Energy Design Resources. 2006-2007.

*Hawaii High Performance Schools Guideline*. State of Hawaii. 83 pages. March 31, 2005.

*Best Practices Manual, Volume 2 Design*. HVAC chapter. Collaborative for High Performance Schools. 2002 and 2006.

*Best Practices Manual, Volume 5 Maintenance and Operations*. HVAC chapter. Collaborative for High Performance Schools. 2004.

*Residential Compliance Manual for California's 2005 Energy Efficiency Standards*. California Energy Commission. 344 pages. 2005.

*Advanced Variable Air Volume System Design Guide*. California Energy Commission. 228 pages. 2002.

*Hawaii Homeowner's Guide to Comfort, Efficiency and Value*. State of Hawaii. 40 pages. 2002.

*High Performance Hawaii Classroom Prototypes*. State of Hawaii. 8 pages. 2005

*Reference Specifications for Energy and Resource Efficiency*. California Energy Commission. 2000.

*Hawaii Model Energy Code Application Manual*. State of Hawaii. 300 pages. 1993.

*Advanced Building Reference Guide*. New Buildings Institute. 312 pages. 2005

### Registration

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California Electrical Engineer, #E14826  
LEED Accredited Professional, LEED-NC version 2.2

### Education

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Stanford University, MS Industrial Engineering, 1990  
Stanford University, MS Electrical Engineering, 1986  
Stanford University, BS Electrical Engineering, 1985

### Affiliations

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American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE), Member  
US Green Building Council, Member