



**Meeting Information
Tuesday,
July 23, 2002**

AEE Bay Area Chapter Presents

Green Project Tour – Pier 1

Award-winning adaptive reuse space on SF waterfront

5:00 - 6:30 p.m.

Tour at Pier 1, San Francisco waterfront

6:30 – 8:00 p.m.

Chapter business and appetizers at Chalkers

Location:

Pier 1, San Francisco
Chalkers, San Francisco

Cost: \$20.00/Members
\$25.00/Non-members
\$10.00/Student

Reservations:

Call Bruce Chamberlain at (510)482-4420 ext 227,
FAX (510) 482-4421,
chapter website www.aee-sf.org,
or by e-mail bruce@energy-solution.com.
See insert for more information.

President's Message

The Balloonist

Aside from the 4th of July, there hasn't been much hot air, so to speak. Not much of a challenge for our grid management here in California. Or is it? If you follow your local news, the blackout spectacle still makes for good air time. Even though it's been less than a year ago since we encountered a stage three alert, we've been lead to believe that the capacity to produce (procure?) enough electrical energy to avoid rolling blackouts is a forgone conclusion and scenes like that of last

summer could be nothing more than distant memories.

But, are we really any better off today than a year ago? Certainly, in light of scandalous activities and government intervention the landscape has changed dramatically. We've managed to weed out the unholy empire that bought and sold energy like a commodities exchange. But what about the future? Are we wise to adopt an ad-hoc spend and build philosophy at the expense of re-election campaign strategies? Maybe it's just more hot air.



A man in a hot air balloon realized he was lost. He reduced altitude and spotted a woman below. He descended a bit more and shouted, "Excuse me, can you help? I promised a friend I would meet him an hour ago but I don't know where I am." The woman below replied, "You are in a hot air balloon hovering approximately 30 feet above the ground. You are between 40 and 41 degrees north latitude and between 59 and 60 degrees west longitude." "You must be an engineer," said the balloonist. "I am," replied the woman. "How did you know?" "Well," answered the balloonist, "everything you told me is technically correct, but I have no idea what to make of your information and the fact is I am still lost. Frankly, you've not been much help so far." The woman below responded, "You must be in management." "I am," replied the balloonist, "but how did you know?" "Well," said the woman, "you don't know where you are or where you are going. You have risen to where you are due to a large quantity of hot air. You made a promise which you have no idea how to keep and you expect people beneath you to solve your problems. The fact is you are in exactly the same position you were in before we met but now, somehow, it's my fault."

Thanks for listening

John Clark
President, AEE Bay Area Chapter

2002 Board

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Interested in involvement?
Contact: John Clark
(510) 420-8987

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AEE Bay Area Chapter serves as a unique forum for the discussion of energy issues and concerns. AEE Bay Area Chapter provides common professional meeting ground for facility managers, design and specifying engineers, utility and vendor representatives and energy researchers to participate in vigorous peer-to-peer dialogue, learning and group discussion.

AEE Bay Area Chapter strives to provide quality professional development opportunities that build knowledge and skills through meetings, seminars and publications. Emphasis is placed on:

- Assessing the applicability of emerging technologies, and
- Improving the performance and reliability of current technologies.

Meetings are held on the fourth Tuesday of the month. All interested persons are welcome to attend, participate and join the Chapter. If you are interested in joining the AEE Bay Area Chapter, contact Leslie Kramer, 415-434-0900 ext 146.

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Secretary's Report

AEE BAY AREA CHAPTER – 28TH MAY 2002 MEETING IN OAKLAND, CAFÉ RUSTICA
Topic: The M&V is wrong ... Now What Do You Do?

Presenter: James Waltz, P.E., President, Energy Resource Associates, Inc. (ERA)
(Former Energy Engineer of the Year!)

Mr. Waltz started with an introduction of himself and his firm, after we did some field retrofit work that allowed for the three-prong extension cord to work with the projector's plug; a licensed electrical contractor was not deemed necessary for this work.

ERA, founded in 1981, is a firm of mechanical, electrical, structural & controls engineers who specialize in improving existing buildings.

Measurement and verification, as related to an energy project was defined as:

- Verify: The ability to produce savings (cost avoidance)
- Measure: Account for the savings produced by the project.

Some things to remember with measurement and verification are that we are trying to measure something that is no longer there (savings cannot be physically measured). Statistical methods used in M&V are frequently invalid as statistics rely on random populations, which is often not the case. There are also interfering factors to account for such as 'bad' baseline information, new/existing equipment failures, changes in use/occupancy, additions/demolitions, sabotage, etc.

The project M&V process must be started at the beginning of the project; too often it is an afterthought. Because of this, the process does not get treated with the attention it deserves. At the same time, no one within the organization wants to hear that the project is not performing as predicted or promised. Thus, results are sometimes created to show the desired results. Organizations that are likely to perform 'bad' projects are also the least likely to be ready in remediation.

Mr. Waltz had the following recommendations to building owners who are considering hiring an energy services company:

- Hire an ESCO based on qualifications (versus cost) as they would any design professional
- Insist on detailed criteria for how each part of the project is to be done and documented.
- Manage the entire process (do not be an absentee owner)
- Stick to the basics and use your common sense – There is no free lunch!

Raj Daswani, P.E.
Co-Secretary, AEE Bay Area Chapter

Do you know someone who might be interested in joining AEE Bay Area Chapter?

The benefits of joining include:

- Participating in exciting and informative programs
- Receiving a monthly newsletter containing information on meetings, events, and job openings
- Communicating with other energy professionals

For membership application:
Contact Leslie Kramer
(415) 434-0900 ext. 146

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Bay Area Chapter

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