



**ASSOCIATION OF  
ENERGY ENGINEERS**

*Bay Area Chapter*

# NEWSLETTER

**March 2000**

## Meeting Information Tuesday, March 28<sup>th</sup>

Mike Scofield, P.E., of Conservation Mechanical Systems will discuss the benefits of combining an indirect/direct evaporative cooling air handling unit design with a thermal storage system using weather data from Sacramento as the base case. This presentation will follow his article published in the December 1999 issue of the *ASHRAE Journal*.

**6:30-7:30**  
Dinner Sinbad's Restaurant

**7:30-9:00**  
Presentation

**Location:**  
Pier 2, San Francisco

<b>Cost:</b>	\$30.00	Members
	\$35.00	Non-Members
	\$15.00	Students

**Reservations:**  
Call John Clark at (510) 420-8987 or FAX (510) 420-1404 using the handy FAX form. Make your reservations by noon Friday, February 18. You can also respond by e-mail to [webmaster@aee-sf.org](mailto:webmaster@aee-sf.org) or at the chapter website [www.aee-sf.org](http://www.aee-sf.org)

See inside for more info...

## PRESIDENT'S MESSAGE

*by Leslie Kramer*

As energy engineers, it is important to for us to keep up with all the latest energy policy buzz words. One phrase that has caught my attention recently is "resource acquisition", which is a hip new term for what we used to call demand-side management. I first heard it at our January AEE meeting when Mike Ruffo of Xenergy talked about market transformation and resource acquisition as two distinct policy objectives for energy-efficiency programs. The term also appears in the California Energy Commission's recently released recommendations to the legislature on the future use of public goods charges: "All means of achieving cost-effective energy efficiency will be considered. That includes programs that focus on markets for new products or that dispense information (market transformation programs), programs that provide financial incentives and require precise, short-term quantifiable measurement of savings (resource acquisition programs), programs that seek to capture so-called "lost opportunities", and programs that encourage the initiative of the public and private sectors. All program approaches have their place. No one approach, as a rule, is preferable to others."

One of the drivers for renewed interest in resource acquisition programs is concern about peak power shortages and rolling brown outs in the next few years. State Senator Peace recently introduced new legislation, SB 1388, which deals with electric system reliability and which contains another new but not-too-catchy term: "consumer-demand responsiveness alternatives". The bill states that "the passage of AB 1890 ... stimulated private developers to file an unprecedented number of applications to build new, environmentally superior merchant powerplants in California. However, because these new power plants will not be completed until 2002 or 2003, the state's electric system reliability will remain vulnerable during the next few years during periods when California and its neighboring states simultaneously experience very hot weather. This vulnerability will be exacerbated, in the event of a drought, by California's dependence on rainfall-driven hydroelectric power for over 20 percent of its annual electricity requirements. Adequate generation, transmission, and *consumer-demand responsiveness alternatives* are critical to managing the vulnerability of the state's electric system..."

I think this shift in jargon may be telling us something. In the next year or two, I suspect we will see the emergence of more public-funded energy programs that focus on peak-shaving as a stop-gap measure to deal with power shortages. So, stop thinking "kWh" and start thinking "kW".

## 2000 Board

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Open

### Interested in involvement?

Contact: Leslie Kramer  
(415) 434-0900 x146

## AEE Advertisement Cost

Charges for advertising in the Newsletter and Web Site are as follows:

<u>Advertisement Size</u>	<u>(1) one month</u>	<u>(3) three months</u>
Quarter Page	\$50	\$40/month
Eighth Page	\$30	\$20/month
Business Card	Not Available	\$15/month

- Advertisement in both documents will be at an additional charge of 50% to the above.
- Corporate members are permitted to advertise their business card at no charge, otherwise Corporate members will be charged at half of the above cost.

*A special thanks to our Corporate Members listed below. If you were a corporate member, you could have your card right here (and on the web site too).*



## PG&E's RFP

2/29/00 — Pacific Gas & Electric Company (PG&E) is seeking proposals for innovative programs that improve enforcement of and/or encourage construction that exceeds building energy codes. PG&E intends to provide funding of up to \$85,000, per selected proposal. Bidders must be local government agencies located in the PG&E service territory and representing constituencies that include PG&E electricity customers. Consultants and other interested parties may, however, partner with local governments on proposals under this RFP. For more information, contact Sharon Stone at 415-973-4388 or e-mail SLS4@pge.com. Proposals are due 4/27/00



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 which 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 Ryan Wood (800) 770-8539.

## International Energy Project Financing Conference

Sponsored by:

The California Energy Commission

### ***Financing for small and mid-size projects in Latin America, Asia and International Markets***

To be held May 8, 2000, at The Renaissance Long Beach Hotel, Long Beach, California.

*The goal of this conference is to:*

- ◆ Focus on financing for power generation, co-generation, energy efficiency and other energy projects requiring less than \$100M in capital investment per project.
- ◆ Discuss alternatives to overcome obstacles (impediments) to international financing and promote public/private solutions to funding power and energy projects in the emerging markets.
- ◆ Feature presentations on successful financing case studies and highlight speakers representing Equity fund investors, multilateral development banks and commercial banks.
- ◆ Bring together financing firms, power/energy developers, government financial institutions and other key decision-makers, to share information on energy project financing in international markets.

Take advantage of this conference to develop business relationships and identify financing partners. For more information on attending the conference, contact the Energy Commission's Tambu Kisoki at (916) 654-4719 or Brenda Sturdivant at (916) 654-4708.

**To reserve your reduced-rate room, contact The Renaissance Long Beach Hotel at (562) 437-5900.**

## Express Efficiency Program

### **The Express Efficiency program can help you perform energy efficient retrofits.**

Thanks to broadened eligibility for Pacific Gas and Electric Company's Express Efficiency 2000 program, your buildings and offices are likely eligible for rebates on energy efficient retrofit technologies.

For the last decade, the Express program has provided rebates to help small commercial, industrial, and agricultural customers save energy in their existing buildings. The Express Efficiency 2000 program now offers rebates to large customers. Large customers are defined as customers with demand >500 kW (those on a mandatory E19 or E20 rate schedule).

This means that most building owners and managers can now receive Express Efficiency rebates for installing energy-saving equipment. Here are the steps you can take to reduce your building's energy use without sacrificing comfort or performance, and apply for cash rebates from Express Efficiency:

1. Customers on A1, A6, A10, voluntary E19 (E19-V), or GNR1 rate schedules should obtain an application for Small Customer Lighting, Air Conditioning/ Refrigeration/ Food Service, or Gas Measure Rebates. Customers on mandatory E19, E20, or GNR2 rate schedules should obtain an application for Large Customer Lighting, Air Conditioning/ Refrigeration/ Food Service, or Gas Measure Rebates. You can obtain applications and information by calling 1-800-468-4743.
2. Large customers have a maximum rebate limit of \$20,000 per account and \$50,000 per corporate parent or government entity. Please confirm fund availability by calling 1-800-468-4743.
3. Purchase and install one or more of the energy-efficient measures eligible under the Express Efficiency program when retrofitting building equipment. Check specific measure requirements on the application form.
4. Complete appropriate application and attach paid itemized invoices. Mail document to Pacific Gas and Electric Company by December 15, 2000 and receive your check in the mail in as little as 2-3 weeks. Please note that applications will be accepted on a first-come, first-served basis until allocated funds are spent, so apply early and often!

In addition to expanding the program to large customers, new measures have been added and selected rebate amounts have been increased for 2000. Lighting rebates are now available for high output T-5 fixtures, *second generation T-8 lamps*, and induction lamps and fixtures. For Air Conditioning, Refrigeration and Food Service retrofits, rebates are now available for variable frequency drives for chilled water pumps and evaporator fan controllers. Rebates are also available for gas measures such as small hot water boilers for space heating and small domestic hot water boilers (commercial installations).

To see a full list of rebate measures, visit [www.pge.com/smarterenergy](http://www.pge.com/smarterenergy) and link to the Express Efficiency 2000 website. You can use this site to download application forms, use automatic rebate calculators, read about efficient technologies and access other useful tools. Again, if you have any further questions or to obtain free program materials, call a Pacific Gas and Electric Company representative at 800-468-4743.

## Career Opportunities

Listed below are the primary duties for two (2) electrical engineering positions that are immediate openings within the electric utility industry. These companies offer very competitive salary packages that will be scaled to the recommended candidates' skill sets and experience levels.

*Position #1:*

- Develop designs, drawings, budgets and specifications for installation of electrical substations.
- Generate procedures for commissioning and energizing high voltage substations.
- Prepare T&D relaying and control system designs.
- Have experience in design, equipment specification and selection, secondary and control schemes for high voltage electrical substations.

*Position #2:*

- Provide design engineering, project engineering and support services for fossil thermal and hydro power plant instrumentation, computer and control systems.
- Develop instrument specifications and installation procedures.
- Perform design and commissioning of computerized control and data acquisition systems.
- Ten or more years of I&C engineering experience in design, startup and/or support for a continuous process plant.
- Application programming or configuration experience with PLC or DCS systems.

**To learn more and be considered for these positions, please contact:  
David Roche, Arnold & Associates, at 1-303-447-9940.**

## GLOBALCON 2000 Energy & Facility Management for the New Millennium

Attached are FREE expo tickets for the upcoming *GLOBALCON 2000* to be held April 19-20, 2000 at the Dallas Convention Center, Hall C, in Dallas, Texas. In addition, we invite you to visit our virtual trade show on our web site: [www.aeecenter.org](http://www.aeecenter.org).

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 Ryan Wood  
(800) 770-8539**

Meetings are held on the fourth Tuesday of each month. All interested persons are welcome to attend, participate and join.

1415 Oakland Boulevard, Suite 200  
Walnut Creek, CA 94596



# Bay Area Chapter

## Dinner Reservation Fax

TO: John Clark  
(510) 420-1404 (FAX)

Please make \_\_\_\_ reservations.  
The following are the names of those who will attend.

<b>Name</b>	Salmon Florentine	London Broil	Blackened Red Snapper
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature: \_\_\_\_\_

Company: \_\_\_\_\_

Phone: \_\_\_\_\_

Reservations may also be made by calling John Clark at (510) 420-8987.

To cancel reservations, call John Clark at (510) 420-8987.

**Please Make Reservations by noon on Friday, March 24<sup>th</sup>**



***You can also make your dinner reservations online***

Make your reservation and dinner selection for the next meeting at the chapter website:

**[www.aee-sf.org](http://www.aee-sf.org)**

## Meeting Announcement

# AEE Bay Area Chapter Presents



### *Evaporative Cooling and TES in California after Deregulation* Tuesday, March 28<sup>th</sup>

**6:00 – 6:30 Social**

**6:30 – 7:30 Dinner.** We will choose from the following menu selections:

- ◆ Salmon Florentine
- ◆ London Broil
- ◆ Blackened Red Snapper

**7:30 – 9:00 Presentation:** Mike Scofield, P.E., of Conservation Mechanical Systems will discuss the benefits of combining an indirect/direct evaporative cooling air handling unit design with a thermal storage system using weather data from Sacramento as the base case. This presentation will follow his article published in the December 1999 issue of the *ASHRAE Journal*.

**Location:** Sinbad's Restaurant (private banquet room)  
Pier 2  
San Francisco, CA  
(415) 781-2555

Located on Pier 2, the Embarcadero, near the Ferry Building in San Francisco. Valet parking is available and free (except tip).

**Cost**           \$30 Members  
                  \$35 Non-Members  
                  \$15 Students

**Reservations** Call John Clark at (510) 420-8987 or FAX (510) 420-1404 using the handy FAX form. Make your reservations by noon Friday, March 24<sup>th</sup>. You can also respond by e-mail to [webmaster@aee-sf.org](mailto:webmaster@aee-sf.org) or at the chapter website [www.aee-sf.org](http://www.aee-sf.org).