



# SOUTHERN CALIFORNIA CHAPTER



The Association of  
Energy Engineers  
Welcomes You...

## MONTHLY LUNCHEON

**Thursday  
May 12, 2011**

### Agenda:

**11:30**

**Networking**

**12:00**

**Presentation**

**1:30**

**Adjourn**

**Program Chair  
Serge Adamian  
(818) 240-4500**

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## Using the Load Based Optimization System to Massively Cut Demand and Energy Consumption

**Scot Duncan**

**President, Enerliance**

LOBOS Energy Efficiency system helps to improve comfort and productivity, while helping to reduce energy consumption.

In addition to describing the LOBOS controllers, strategies such as “Variable Speed Everything” and Thermal Energy Storage using the “Large Temperature Differential” design will be discussed. Typical TES systems that were a part of the SCE “Permanent Load Shift” chilled water storage pilot program operated with 25°F to 30°F chilled water temperature differentials, while the PG&E site peaked out with a 44°F temperature differential (not a typo!), with typical summer operation floating between 30°F and 34°F TD’s. The PG&E chiller plant all-in efficiency averaged around 0.50 kWh per ton-hour while making 35°F chilled water for the TES system during the TES charge cycle.

A preliminary analysis using all of the above strategies and an innovative dehumidification/ reheat system to treat 1,000,000 CFM of makeup air at a large chip fab yielded potential savings of over 27,000,000 kWh per year, and over 400,000 therms per year in gas savings.

These design, Demand Response and optimization strategies can be applied across a wide variety of facility types, from tilt ups with large RTU’s to Commercial office space, to Universities and Colleges, to military, prison, manufacturing and technology sites.

**Stevens Steak House**

**5332 Steven’s Place, City of Commerce, CA**

See reverse side for a map and the reservation request form.

## To Make Reservations

**Fax this page to: (562) 497-2990 or use one of these other options:**

Tel (562) 497-2999  
 E-mail [signup@aeesocal.org](mailto:signup@aeesocal.org)  
 Mail AEE % P2S Engineering  
 5000 E Spring St Ste 800  
 Long Beach, CA 90815

Cost :	With Reservations	Without Reservations
Chapter Member	\$25	\$30
Non-Member	\$30	\$35

Name \_\_\_\_\_

Company \_\_\_\_\_

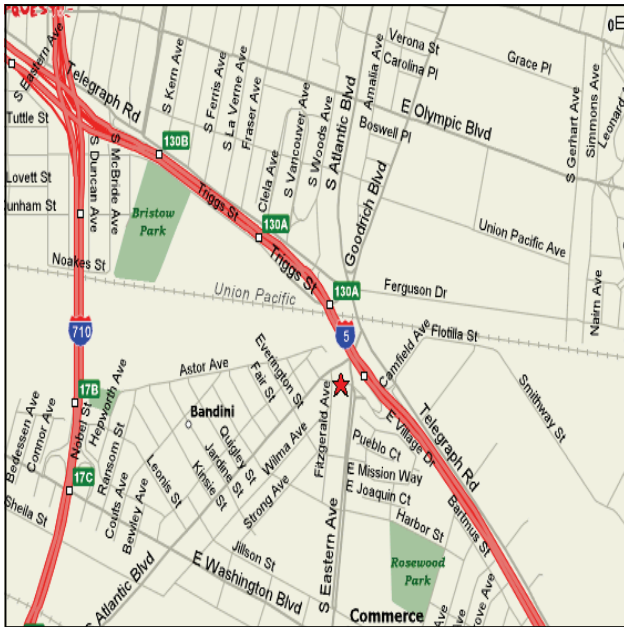
Phone \_\_\_\_\_ E-mail \_\_\_\_\_

**Note: After making a reservation, if you find that you cannot attend, please cancel your reservation 3 days prior to luncheon date to avoid being invoiced for the meal cost. Thank-you!**

The Southern California Chapter of the Association of Energy Engineers is a 501 (C) 6 tax exempt non-profit organization, incorporated in the state of Georgia, and its Federal TIN is 91-2061992

### MAP

**Stevens Steakhouse (323) 723-9856**



**5332 Stevens Place  
 City of Commerce, CA**

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