

Final Technical Report

Award Number: DE-FC36-02GO12085

Project Title: INDUSTRIAL ASSESSMENT CENTER PROGRAM

Project Period: 9/1/2002 to 11/30/2006 (*or other dates if applicable*)

Recipient Organization: *San Francisco State University*
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Executive Summary

The Industrial Assessment Center (IAC) at San Francisco State University (SFSU) has served the cause of energy efficiency as a whole, and in particular for small and medium-sized manufacturing facilities in northern and central California, within a approximately 150 miles (radial) of San Francisco since 1992. In the current reporting period (September 1, 2002 through November 31, 2006) we have had major accomplishments, which include but are not limited to:

- Performing a total of **94** energy efficiency and waste minimization audit days of **87** industrial plants
- Recommending and analysis of **809** energy efficiency measures
- Training **22** energy engineers, most of whom have joined energy services companies in California.
- Disseminating energy efficiency information among local manufacturers
- Acting as an information source for energy efficiency for local manufacturers and utilizes
- Cooperating with local utilities and California Energy Commission in their energy efficiency projects
- Performing various assignments by DOE such as dissemination of information on SEN initiative, conducting workshops on energy efficiency issues, contacting large energy user plants
- Establishing a course on “Energy: Resources, Alternatives and Conservation” as a general education course at SFSU
- Bringing energy issues to the attention of students in classrooms

Task Summary

Summarize the IAC’s activities by task for the entire period of funding.

Task 1: Conduct Industrial Assessments, to include a variety of plant types and sizes and well as coverage of the geographic area defined in the Annual Work plan Industrial Assessments:

SFSU-IAC has performed 87 industrial audits recommending 809 assessment recommendations throughout its services territory within 150 radial miles of San Francisco as outlined in the following table.

SIC	07	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
No. of Plants	1	38	0	0	0	2	2	5	6	4	5	6	0	5	3	2	1	4	0	2	1	87

Task 2: Promote and increase the adoption of assessment recommendations and employ innovative methods to assist in accomplishing these goals. *Provide a summary of the efforts used to promote the adoption of ARs, including any available overall adoption statistics.*

SFSU-IAC has persuaded its clients to adopt the recommended measures in various ways, including:

- Presentation of the audit reports to selected clients that agree to an on-site presentation.
- Contacting clients about one month after the report is sent to the client.
- Responding to customer’s questions about implementation of the measures

Task 3: Promote the IAC Program and enhance recruitment efforts for new clients and expanded geographic coverage. *Describe efforts to promote the IAC program and expand the reach of the center.*

We have used the following methods for client recruitment and expansion of our geographic coverage:

- Extensive direct mail-outs
- Marketing telephone calls
- Communication with local utilities for client referrals
- Press release advertising our services through the University Public Relations Office
- Communication with local sections of manufacturers and advertising in their local newsletters about our services

Task 4: Provide educational opportunities, training, and other related activities for IAC students. *Summarize education, training and other any other activities for the students. Include overall number of students that participated during the course of the award.*

SFSU-IAC is the source of recruitment for local as well as national energy service companies. Most of our graduates work for the local energy companies and they are already having an impact of the efforts in energy efficiency by local utilities. The following table shows the statistics on about our graduates in this reporting period:

Status	ME - Undergrad	ME - Grad	EE - Undergrad	EE - Ggrad
No. of Students	14	1	5	2
Total	22			

Task 5: Coordinate and integrate Center activities with other Center and IAC Program activities, DOE's Industrial Technologies programs and other EERE programs. *Summarize the integration activities with other centers, the ITP program, state programs, etc.*

We have supported other DOE and IAC related activities in various ways including but not limited to the following:

- Dissemination of information on various DOE sponsored tools among our clients
- Development of workshops including one in support of SEN initiative

Task 6: Other tasks or special projects, as needed, and as determined by DOE to be advantageous to the program and in furtherance of IAC Program goals. *Briefly describe any other special projects or tasks performed for DOE under the award.*

- Supporting SEN initiative by performing targeted audits of SEN referred clients.
- Dissemination of information about SEN initiative to all our past clients
- Identifying the contacts and collection of information on large energy users in our area