Program Synopsis

Energy Design Resources is an integrated package of design tools and information resources for market actors involved in the design of non-residential new construction in California. The program provides tools that promote the design and construction of high performance buildings, primarily through a website. The program was incorporated into the statewide Savings by Design program in 2002, serving as the information and education component of SBD. The programs work together to achieve market transformation and resource acquisition goals.

Program Type

Incentive

- PrescriptiveRebates
- CustomIncentivesSPC
- BillCreditsRateDiscounts
- Services
- DirectInstallation
- FinancingLoansLeasing
- FreeMeasures
- InHousePlusSubs
- IncentiveOther

Information and Training

- GeneralEducation
- MailAudit
- TelephoneAudit
- OnSiteAudit
- OnLineAudit
- DesignAssistance
- FeasibilityStudies
- EndUserTraining
- TradeAllyTraining

Program Focus

Primary Market Events Targeted

- AllMarketEventsTargeted
- NewConstructionRenovation
- ExistingConstructionAll
- ExistingConstructionRetrofit
- ExistingConstructionNaturalReplac
- ExistingConstructionEarlyRetire

Primary Program Focus

- EndUser
- SupplySide
- EndUserAndSupplySide

Residential End User Target Markets

- ResidentialALL
- SingleFamily
- MultiFamily
- MobileHome
- LowIncome
**SUMMARY PROFILE REPORT**

Program Name: Energy Design Resources
Implementing Organization: Southern California Edison

- ResOther

**Commercial/Industrial End User Markets**

Commercial
- [ ] All
- [ ] Offices
- [ ] Retail
- [ ] Restaurant
- [ ] Public (govt.) Facilities
- [ ] Grocery Store
- [ ] Health Care
- [ ] Education
- [ ] Lodging (Hotels/Motels)
- [ ] Warehouses
- [ ] Other (specify:)

Industrial
- [ ] All
- [ ] Other (specify:)
  - Other (specify:)

**Market Barriers**

- End User Side
  - [ ] Information or Search Costs
  - [ ] Performance Uncertainties
  - [ ] Asymmetric Information and Opportunism
  - [ ] Hassle or Transaction Costs
  - [ ] Hidden Costs
  - [ ] Misplaced or Split Incentives
  - [ ] Product or Service Unavailability
  - [ ] Externalities
  - [ ] Non-Externality Pricing
  - [ ] Inseparability of Product Features
  - [ ] Access to Financing
  - [ ] Bounded Rationality

NR79 - 2
## Types of measure/end use technologies

### HVAC
- [x] Multiple Measures
- [ ] High Efficiency DX/HP
- [ ] High Efficiency Chillers
- [ ] High Efficiency Room/Terminal
- [ ] Economizers
- [ ] Control Systems
- [ ] Variable Speed Drives
- [ ] Occupancy Sensors
- [ ] Duct Sealing and Balancing
- [ ] Operations and Maintenance
- [ ] Equipment Testing/Tune-up
- [ ] Commissioning
- [ ] Retro-commissioning
- [ ] Space Heating
- [ ] Heat Pump
- [ ] Other (specify:)

### Lighting
- [x] Multiple Measures
- [ ] Compact Fluorescents
- [ ] Electronic Ballasts
- [ ] Reflector Systems
- [ ] Efficient Fluorescent Lamps (T-8, T-5, etc.)
- [ ] Lighting Controls
- [ ] Occupancy Sensors
- [ ] High Intensity Discharge
- [ ] Operations and Maintenance
- [ ] Day lighting
- [ ] Other (specify:)

### Water Heating
- [ ] Multiple Measures
- [ ] Load Control (Cycling)
- [ ] High Efficiency
- [ ] Insulation Blankets

### Appliances
- [ ] Multiple Measures
- [ ] Refrigerators
- [ ] Dish Washers
- [ ] Clothes Washers
Energy Design Resources (EDR) began in 1998 as a stand-alone market transformation program to provide information and tools to encourage energy efficient design among non-residential new construction projects. Southern California Edison launched the program in PY 1998 and expanded it in 1999. It was launched statewide in PY 2000/01 and was ultimately folded into the statewide Savings By Design program in 2002. In 2002-2003, EDR was budgeted and tracked separately, but the quantitative tracking for both EDR and SBD are now integrated. The original market transformation goal of EDR now supports the resource acquisition component of Savings By Design. Since EDR is currently used to complement the SBD program by offering additional tools to assist with the design of energy efficient new buildings, it has no separate programmatic goals.
SUMMARY PROFILE REPORT

ProgramName: Energy Design Resources
Implementing Organization: Southern California Edison

Program Management

As a suite of tools available electronically to participants connected to the Savings by Design program, EDR does not have its own staff or budget—instead it is implemented by program managers at each of three California IOUs as part of their efforts in Savings by Design. Consultants are typically used to actually develop the educational tools that the website provides.

Verifying and Tracking

EDR maintains lists of training attendees, people who have downloaded software, and electronic lists of website members and newsletter recipients. The lists contain contact information of visitors who voluntarily submit their email address to EDR, complete on-line surveys and sign into the EDR website in order to access the electronic design resources.

Certification and Quality Control

Quality control for EDR occurs mainly at the front-end of information development, through assuring that the materials are relevant and accurate, and that they are developed by experts in energy efficient design. Additionally, like other training programs, EDR QC also depends upon assuring that the tools fit within models of adult learning and professional training, and that they are used and valued by SBD participants.

Participation Process

EDR participants are mainly participants of the statewide Savings by Design program, and typically participate by logging on to the SBD/EDR website to access information and training tools. The electronic access means that participation is relatively simple for interested market actors. A variety of design tools and information is provided to cover the variety of market actors that might participate in SBD, including: building owners, architects, engineers, designers, contractors, builders, developers, and energy consultants.

Outreach, Marketing and Advertising

Energy Design Resources is promoted as part of Savings by Design. Some utility staff visit select architects or engineers to deliver binders and CD-ROMs, or encourage these market actors to consider EDR training opportunities. The website is the primary vehicle used for marketing EDR resources. EDR also sends an intermittent newsletter to those on its mailing list.

Installation and Delivery

No measures are directly installed through this program. Training is primarily provided electronically.
Program Evaluation

The purpose of the evaluation was to describe which of the program’s design assistance tools are used the most, how the tools are used, the extent to which the tools are used, and which tools are of most interest to each of the target market actor groups. EDR is primarily reaching engineers, architects, and energy consultants. More respondents have used the EDR publications than the software tools or trainings. Low levels of awareness is one of the major reasons why some of these tools are not being used. Respondents appear to be much more aware of the software tools (with the exception of EDR Charette), than of EDR publications. Respondents are least aware of the trainings offered by EDR. More than a quarter of the people reached by EDR are not using the tools provided to them. Of all of the tools offered, eQUEST seems to lead to the largest savings. In addition to being used by a large percentage of people, users of eQUEST tend to use it more frequently and on more projects. Users also indicate that this tool is useful for a variety of systems. Among publications, eNews is having the largest impact due to its wide readership. Finally, most participants of the various training sessions stated that the training sessions have helped to increase the use of energy efficient design practices.

Quantitative Data
Program Year: 2002 to 2003

- Cost Breakdown is available
- Net Savings Breakdown is available
- Net-to-Gross is available
- Total Resource Cost Data is available

Quantitative Data Summary:
The program tracks participation in numbers of web site hits, numbers of users of various educational tools and numbers of people who receive information and/or training through EDR. Since the program is an integrated component of the larger Savings By Design program, the program does not have independent energy savings goals. In 2002, EDR reached over 2,300 market actors in the new construction market through publications, trainings and on-line design resources (including software tools and modeling). The EDR website had 41,498 hits, and 34 trainees completed EDR on-line training courses.

List Of Key Sources

Name: Jan Johnson (SCE)

Contact Information
SUMMARY PROFILE REPORT

Program Name: Energy Design Resources
Implementing Organization: Southern California Edison

Company: Southern California Edison
Phone: (909) 3576134 Ext.
Email: janith.johnson@sce.com