NONRESIDENTIAL MARKET SHARE TRACKING STUDY

APPENDIX F SECONDARY SOURCES BIBLIOGRAPHY

Prepared For:

California Energy Commission

Prepared By:

Aspen Systems Corporation

With

Williams-Wallace Management Consultants Robert Thomas Brown Company



CONSULTANT REPORT

April 2005 CEC 400-2005-013-AP6

Title	Sponsoring Organization	Report Author	Date	Summary
Commercial End Use Full Scope Survey Questionnaire	SCE	ADM	1992	Survey instrument used for 1992 SCE Commercial End- Use survey
Market Barriers to Conservation: Are Implicit Discount Rates Too High?	N/A	Cal Tech, Div. Of Humanities & Social Science	Jul-92	This study reviews the work of four previous hedonic regression studies to reconsider whether implicit discount rates for energy efficiency measures are too high and cause market barriers.
Commercial Energy Use Study Final Report Vol. I, Vol. II & Vol. III	SDG&E	Xenergy	Nov-93	This study provides results a series of tabular results for SDG&E's 1992 Commercial End Use study. One of the major findings of the study was that over half the install 4-foot fluorescent lamps are energy efficient.
CEC 1994 Measure Cost Study	CADMAC	Xenergy	Nov-94	The objective of this study was to develop full and incremental measure cost estimates for use by utilities in their DSM forecasts.
CEC Staff Report: CA Energy Demand 1995 - 2015, Vol. II Electricity Demand Forecasting Methods	CADMAC	Not Listed	Jul-95	This report documents the methodologies used in preparing the CEC's demand forecasts
CEC 1996 Measure Cost Study, Final Report & Appendices	CADMAC	Xenergy	Dec-96	The purpose of the study was to develop full and incremental measure cost estimates for program forecasting and evaluation. This study follows two similar cost studies completed in 1992 and 1994.
CA Baseline Lighting Efficiency Technology Report, Volumes I & III	CEC	HMG	May-97	Study focused primarily on residential lighting. One major finding of the study is that Title 24 code lighting requirements are a key driver for efficient lighting installations. Study also concludes utility programs help transform the market.
Commercial Saturation Survey, Final Report	SCE	ADM	Jun-97	Summary and data tabulations covering two commercial on-site surveys conducted in 1992 and 1995. Provided SCE with database of information on SCE commercial buildings along with end-uses.
Commercial Building Survey Report, and Sampling Design and Survey Implementation Report	PG&E	N/A	Sep-97	Report provides tabular and graphical estimates of energy consumption by major commercial buildings and end-uses.

Title	Sponsoring Organization	Report Author	Date	Summary
Measurement & Evaluation Survey Questionnaire	SDG&E	N/A	1997	The survey objective was to provide SCE with baseline information about energy related factors for their commercial customers. The onsite surveys were conducted in 1992 and 1996.
Electric Chiller Handbook	EPRI	Energy Int'l	Feb-98	The report was designed as a handbook that could be used by utility technical and marketing staff in the evaluation of chilled-water systems for commercial buildings.
The Chiller's Role Within a Utility's Marketing Strategy	EPRI	QDI Strategies	Apr-98	The study provides a framework for identifying market opportunities for chiller related products and services in the emerging retail completion framework.
Commercial Lighting Market Effects Study: Final Report, Vol. I, Appendix/Vol. II	PG&E and SDG&E	Xenergy	Jul-98	The study identifies changes in the commercial lighting markets that favor the adoption of efficient fluorescent technologies. The study also accessed the extent to which the market changes were due to the sponsors' programs and how durable the changes would be.
Commercial/Industrial Market Effects Baseline Study, Final Report	PG&E	Quantum Consulting	Jul-98	Study characterizes the market for packaged air conditioners and motors in PG&E service territory. The goal of the study was to identify major market barriers, customer actions and intentions that could be used in future studies to assess market effects and program intervention.
Market Effects Summary Study, Volumes 1&2 Final Reports	CA DSM Advisory Committee	Research Into Action	Dec-98	Report summaries 15 studies commissioned to evaluate the market effects of utility-based, demand side management programs undertaken between 1996 and 1998.
1997 Economic Census	N/A	U.S. Census Bureau	1997	Data was not segmented to a level useful for this study.
Current Industrial Report	N/A	U.S. Census Bureau	Sep 01	Data was not segmented by sales to California, building type, distribution within regions/states, or by efficiency level. Thus these data are only useful from an initial national perspective of production of commercial HVAC, but are of quite limited value for this study.
CA NRNC Energy Characteristics Database	CEC	AEC	Jan-99	Study presented energy consumption differences between "as built" and Title 24 requirements for major end uses.

Title	Sponsoring Organization	Report Author	Date	Summary
An Assessment of the Technical Degradation Factors: Commercial Air Conditioners and EMS, Final Report	CADMAC Persistence Subcommittee	Proctor Engineering Group	Feb-99	Examines the relative technical degradation of high efficiency PAC and EMS systems. The study reports that only minor energy savings degradations were apparent for the sampled sites.
Compilation and Analysis of Currently Available Baseline Data on CA EE Markets [CABD] Draft	CBEE & SDG&E	Xenergy	Mar-99	Summarizes available baseline market information to be used in supporting future evaluations and makes recommendations on how to fill any gaps.
Efficiency Market Share Needs Assessment and Feasibility Scoping Study, Vol. 1	CBEE & PG&E	RER	May-99	Objective of study was to formulate recommendations for tracking energy efficiency measures in California market to be used to assess extent of market transformation efforts
NRNC Baseline Study Final Report	SCE	RLW	Jul-99	Major source of data for the Public database. Aspen computed over 6,000 market shares for chiller, window, and lighting technologies
Survey of Energy Management in the CA Food Processing Industry	UC Davis	CA Inst. Of Food & Ag Research	Aug-99	Six tables used in the Public database.
CEC: Lighting Efficiency Technology Report: Vol. I: CA Baseline; Vol. II: Scenario Report; Vol. III: Market Barriers Report; Vol. IV Recommendations Report	CEC	HMG	Sep-99	Looks at the state of lighting efficiency in California during the period 1994-1996, and makes model based recommendations about where there is the greatest potential for improvement in lighting efficiencies over a 15-year period.
NRNC Market Assessment & Evaluation – Market Transformation Barriers & Strategies Study	SCE	HMG	Feb-00	The study was undertaken to develop a better understanding of the process of and impediments to energy efficient design in new nonresidential buildings. Results and recommendations were formulated using information obtained from major market actors at eight focus group meetings held throughout California.
CA Residential Efficiency Market Share Tracking, First Year Interim Report	SCE	RER	Oct-00	Data for quarterly and annual market shares of packaged air conditioners sales included in the Public Database.
2001 DEER Update Study, Final Report and Ch. 5, Residential Measures	CEC	Xenergy	Aug-01	Cost and measure data for commercial lighting, window and chiller technologies included in the Public Database.

Title	Sponsoring Organization	Report Author	Date	Summary
CA Commercial End Use Survey (CCEUS), 2001/2002	N/A	N/A	Sep-01	Study was not available in time for Tracking Study project.
CA NRNC Energy Characteristics Database Documentation	CBEE & SCE	RLW	Nov-01	Follow on study to baseline NRNC study.
CA Industrial EE Market Characterization Study, Final Report	PG&E	Xenergy	Dec-01	The study objective was to identify and quantify the best opportunities for industrial energy-efficiency improvements by major end uses in the industrial sector. The study also sought to assess how current utility programs are performing in respect to capitalizing on the opportunities and make recommendations for future programs and future research.
Study of C&I New Construction and Retrofit Lighting and Design Practices	SMUD	HMG	Oct-00	Study looks at efficient lighting practices in SMUD service territory. Three data table included in the Public Database.
Updated Baseline –Compared to 1998 T-24 Code & End Use Savings by Measure Category	SCE	RLW	Nov-00	Study generates energy ratios for major end-use in NRNC dataset. Data source the same as baseline, which is included in the Public Database.
NRNC Market Characterization and Program Activities Tracking Report PY2000	SCE	Quantum	Mar-01	Focuses on tracking the activities surrounding the Savings By Design (SBD) statewide NRNC program, and to produce quarterly reports describing its penetration levels in the overall NRNC market.
NRNC Market Characterization and Program Activities Tracking Report PY2001	SCE	Quantum	Apr-02	Focuses on tracking the activities surrounding the Savings By Design (SBD) statewide NRNC program, and to produce quarterly reports describing its penetration levels in the overall NRNC market.
Final Report, U.S. Market for Central Plant Air Conditioning: Chillers	N/A	Ducker Industrial Standards	Mar-01	Data only relevant at national level.
Final Report, U.S. Market for Residential and Specialty Air Conditioning: PTAC (Packaged Terminal Air Conditioning)	N/A	Ducker Industrial Standards	Mar-01	Data only relevant at national level.
Final Report, North American Flat Glass Market	N/A	Ducker Industrial Standards	Jan-01	Data only relevant at national level.

Title	Sponsoring Organization	Report Author	Date	Summary
California Residential Efficiency Market Share Tracking, HVAC 2000	SCE	RER	May-02	Data for quarterly and annual market shares of packaged air conditioners sales in 2000 included in the Public Database.