STATE FACILITY ENERGY UPGRADE ANALYSIS

AND

PERFORMANCE CONTRACTING POTENTIAL

PHASE I

Report and Recommendations

Submitted to:

The State of Hawaii Department of Business, Economic Development, & Tourism Energy, Resources, & Technology Division

By:

Raymond G. Anderson, Energy Consultant Washington State Department of General Administration Division of Engineering & Architectural Services 206 General Administration Building, P.O. Box 41012 Olympia, Washington 98504-1012

April 2003

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Abbreviations

AMT	Amount
APPROX	
	. Convention Center Authority
	Community College
	Department of Accounting and General Services
	Department of Business, Economic Development and Tourism
	Department of Agriculture
	Department of Attorney General
	Department of Defense
	Department of Education
	Department of Hawaiian Home Lands
	Department of Health
	Department of Human Services
	Department of Labor & Industrial Relations
	Department of Lands & Natural Resources
	Department of Public Safety
	Department of Transportation Airports Division
	Department of Transportation Harbors Division
	Department of Transportation Highways Division
	Demand Side Management
	Dollars per million British thermal units
	Energy Performance Contracting
	DBEDT's Energy, Resources, and Technology Division
	Energy Services Company
	Washington Department of General Administration
	Hawaiian Electric Company
	Hawaii Electric Company
	Housing and Community Development Corporation of Hawaii
	Hawaii Revised Statute
	Hawaii Public Libraries System
	Kauai Island Utility Cooperative
	Kilowatt hour (1,000 watt hours)
	Measurement and Verification
	Maui Electric Company
	Megawatt hours (1,000,000 watt hours)
	Natural Energy Laboratory of Hawaii
OFF LT. GOV	Office of the Lieutenant Governor
	Stadium Authority
SOH or SH	
TARCDE	
	University of Hawaii
	•

INTRODUCTION

Purpose:

The State of Hawaii is in the process of surveying the current energy usage by state agencies and to propose how agencies can implement energy conservation. The Department of Business, Economic Development and Tourism (DBEDT) will use this information to determine the potential for significantly improving the energy management in state facilities. The overall goal is to save taxpayer dollars and reduce emissions that contribute to air pollution and global climate change. The preferred methods for achieving these improvements are through the use of the existing energy performance contracting program and through utility energy-efficiency contracts. Phase I of this analysis was undertaken to identify facilities that may be eligible for energy performance contracts and to:

- 1. Compile annual energy use data (kWh and dollars) for selected Hawaii state agencies on the islands of Oahu, Maui, Kauai, and Hawaii. Include total annual energy use for agencies included in the analysis;
- 2. Include annual energy use and cost data for the selected agencies, by island, by agency, and by larger facilities using \$50,000 or more of electrical energy; and,
- 3. Phase II of the analysis will include site visits and preliminary surveys for up to three typical state buildings to determine potential conservation opportunities by building type. A final written report will be provided to DBEDT.

Authorization:

This work is authorized under Work Order 5C for Task 5 of Contract No. 44028/GA 97-505 between the Hawaii Department of Business, Economic Development and Tourism and the Washington State Department of General Administration dated January 4, 2001.

EXECUTIVE SUMMARY

The Washington State Department of General Administration (GA), under an existing Contract with the Hawaii Department of Business, Economic Development and Tourism (DBEDT), has undertaken this analysis to identify facilities that may be candidates for energy performance contracting projects.

The State of Hawaii's energy efficiency legislation has concentrated on implementation through Energy Performance Contracting. This provides the opportunity for state facilities to implement cost-effective measures at little or no cost to taxpayers. This analysis uses current electrical energy consumption data to determine the best methods of implementing energy efficiency projects in Hawaii State facilities.

Hawaiian Electric Company (HECO) supplied electrical consumption data for fiscal year 2002 (July 1, 2001 through June 30, 2002) so recommendations could be made to improve energy efficiency based on current consumption records. HECO also provided information on state facility participation in their Demand-Side Management (DSM) program. The DSM program is designed to reduce facility electrical consumption in the utility's service territory.

Kauai Island Utility Cooperative (KIUC) supplied electrical consumption data for calendar year 2001. KIUC was unable to provide DSM data because they are in the middle of a transition from an investor-owned utility to a public cooperative utility.

Table 1 identifies the relative amount of energy used by facilities being served by HECO and KIUC. Facilities have been classified as large, medium and small. Large facilities have been identified as those using over one million kWh annually. Medium facilities have been identified as those using over \$50,000 worth of electricity but less than one million kWh annually. Small facilities have been identified as using less than \$50,000 worth of electricity annually. Initially, the analysis focused on identifying facilities using over \$50,000 worth of electricity annually. As the analysis progressed it became apparent that many of the facilities between \$50,000 and one million kWh would be too small for the Energy Performance Contracting program. The medium sized facility classification was therefore developed and made a part of the analysis. Appendix A includes those facilities using over \$50,000 worth of electricity per year, but less than one million kWh per year.

Table 2 identifies the total electrical consumption and cost by agency, and by island within the State of Hawaii. Nearly 80% of the total state agency consumption takes place on the Island of Oahu. Educational facilities use nearly 46% of the total electricity consumed by state agencies in Hawaii. (Department of Education – 19.19%; University of Hawaii – 22.25%; and, Community Colleges – 4.49%)

Table 3 identifies large facilities that have participated in HECO's DSM programs and the percentage of savings that have been achieved. Twenty-two facilities have

achieved savings of between 10% and 25%. Appendix B identifies specific types of projects that have been implemented at all state facilities within HECO's service territory.

Table 4 identifies facilities consuming over one million kWh per year. There are 108 facilities classified as large facilities and they consume over 70% of the electricity used in state facilities. Of the 108 facilities, 86 have not achieved a 10% reduction using available utility DSM financing. These 86 facilities would seem to be the facilities to consider for Phase II of this analysis. Additional information from the owning agencies may pare this list even more. Currently, however, 80% of the large facilities continue to be prime candidates for the Energy Performance Contracting program.

Additional information is needed from state agencies occupying these facilities to determine: if they are state-owned or leased; size in square feet to determine relative consumption; types of occupancy; operating hours; and, future plans for the facility. It will also need to be determined if the facilities have received any energy efficiency improvements that are not reflected in the utility DSM data. This information will provide a method for prioritizing the implementation of Energy Performance Contracts at the facilities.

OVERVIEW

This report contains a survey of current electrical energy consumption by State of Hawaii agencies and their facilities. It also identifies methods that agencies can use to implement energy efficiency projects in their facilities. Both Hawaiian Electric Company and Kauai Island Utility Cooperative have assisted in the project by providing consumption data for state facilities in their service territories.

Hawaiian Electric Company (HECO) has been very helpful in providing consumption data for state facilities in its service territory and in the service territory of its subsidiaries, Hawaii Electric and Maui Electric. They have also provided information on their Demand-Side Management (DSM) program. The consumption data provided is for Fiscal Year 2002 ending on June 30, 2002. HECO provided information on approximately 3800 meters serving facilities in the above service territories. Many of the facilities are multi-metered so the actual number of facilities is less than the number of meters.

Kauai Island Utility Cooperative (KIUC) has also been very helpful in providing consumption data. KIUC is involved in changing from an investor-owned utility to a cooperative. They have provided consumption data for calendar year 2001. They have not been able to provide data on their DSM programs to date. When the transition is completed the utility should be able to provide the additional information. KIUC provided information on 201 State facilities that it serves on the island of Kauai.

Hawaii's energy legislation has focused on the use of Energy Performance Contracting (EPC) to provide the energy retrofits necessary to improve the efficiency of state facilities. A general overview of State of Hawaii legislation on energy efficiency in state facilities includes:

- Section 36-41 Hawaii Revised Statute (HRS) "Energy Retrofit and Performance Contracting for Public Facilities". This Section directs all agencies to evaluate and identify energy efficient retrofits that can be implemented through performance contracting.
- Chapter 37D HRS "Management of Financing Agreements". This Chapter establishes a centralized master lease-financing program for among other things, energy retrofits at favorable tax exempt rates.
- Part II Section 196 HRS "Energy Efficiency in State Facilities". This Part provides goals for energy efficiency improvements in state facilities through the use of Energy-Savings Performance Contracts, utility energy-efficiency service contracts, ENERGY STAR and other energy efficient products.

State of Hawaii legislation is focused on implementation of energy efficiency measures in a cost-effective manner and provides direction for implementing these measures at little or no cost to taxpayers.

CURRENT AGENCY CONSUMPTION

The current state agency consumption has been determined using electrical consumption data provided by HECO and KIUC. The "Energy Performance Contracting Report and Recommendation for the State of Hawaii" dated August 2001 estimated consumption in State facilities as 75,000 Btu/sq ft. The HECO Energy Services Department confirmed that average consumption in buildings was twenty-two kWh/sq. ft. Based on these estimates, it has been determined that state facilities in Hawaii comprise approximately thirty million square feet. The facilities are divided up between large facilities (one million kWh or more of annual consumption), medium facilities (\$50,000 or more of annual energy cost), and small facilities. Table 1 provides a quick overview of the relative consumption and size for each group.

Facility Size	# Facilities	Total MWH	Average Square Feet	Total Square Feet
		/=0.000		
Large	108	472,930	199,000	21,497,000
Medium	152	84,370	25,230	3,835,000
Small	2,365 (est.)	111,150	2,140	5,052,000

Large Facilities - Electrical consumption exceeds one million kWh per year.

Medium Facilities -Electrical consumption exceeds \$50,000 per year but is less than one million kWh per year.

Small Facilities - Electrical consumption cost is less than \$50,000 per year.

The large facilities are potential candidates for Energy Performance Contracting. Medium and small facilities may be included with a large facility to make it cost effective for them to participate in the EPC. Ownership of the facility and location compared to the large facility normally dictates the potential for combining facilities into one contract.

There are approximately ten times more small facilities than medium and large facilities. In order to provide energy conservation information, to these facilities, it may be necessary to develop guidelines or a workbook for small facilities to use in upgrading their facilities. The guidelines or workbook can be focused on "ENERGY STAR" materials and equipment and products found to be cost effective by the utilities. The guidelines or workbook should also be prepared for use in discussing upgrades with the owners of leased facilities. Table 2 includes an overview of total and relative electrical consumption and cost by state agency and by island. Agencies on the Island of Oahu consume nearly 80% of the total electricity consumed by state facilities. As expected, educational facilities consume over 47% of the total electricity consumed by state facilities.

CUSTOMER NUMBER	AGENCY	TARIFF CODE	APPROX # METERS	ANNUAL kWh	% TOTAL CONSUMPTION	/	ANNUAL COST
9603-0543	SOH CONV CTR AUTH	1	1	7,524,000		\$	909,670
	CONVENTION CENTER TO	TAL	1	7,524,000	1.13%	\$	909,670
8807-1307	SOH DAGS	1	43	41,569,803		\$	4,747,477
8603-4435	SOH DAGS	2	16	1,721,793		\$	328,285
8700-0217	SOH DAGS	3	8	1,491,115		\$	260,223
9204-5346	SOH DAGS	5	3	422,490		\$	89,298
А	SOH DAGS	6	7	1,560,054		\$	385,931
	DAGS TOTAL		77	46,765,255	7.00%	\$	5,811,215
8814-1379	SOH DBEDT	1	11	1,414,286		\$	186,864
9801-4502	SOH DBEDT	5	1			\$	213
	DBEDT TOTAL		12	1,414,286	0.21%	\$	187,077
8820-1034	SOH DOA	1	15	1,268,475		\$	169,453
8603-5946	SOH DOA	2	7	132,535		\$	30,357
9204-2009	SOH DOA	5	4	1,071,280		\$	209,109
В	SOH DOA	6	1	10,900		\$	5,870
	DEPT OF AGRICULTURE TO	OTAL	27	2,483,190	0.37%	\$	414,788
С	SOH ATG	6	<u>1</u>	<u>32,190</u>		\$	7,817
	DEPT OF ATTORNEY GENE	ERAL TO	1 1	32,190	0.005%	\$	7,817
9204-3214	SOH DOD	1	17	4,082,567		\$	481,973
8602-9330	SOH DOD	2	33	1,377,213		\$	271,240
9204-3214	SOH DOD	3	6	446,558		\$	80,797
9501-1255	SOH DOD	5	2	31,680		\$	9,605
E	SOH DOD	6	1	156,160		\$	35,104
	DEPT OF DEFENSE TOTAL		59	6,094,178	0.91%	\$	878,720
0101-4685	SOH DOE	1	296	92,732,273		\$1	1,944,413
0101-8269	SOH DOE	2	137	16,305,101			3,285,605
0101-5653	SOH DOE	3	59	11,211,582			2,052,221
0101-5653	SOH DOE	4	2	450,720		\$	119,924
0101-5653	SOH DOE	5	16	1,249,813		\$	293,425
F	SOH DOE	6	44	6,348,419			1,610,022
	DEPT OF EDUCATION TOT	AL	554	128,297,908	19.19%	\$1	9,305,610
9301-1976	SOH DOHHL	1	20	68,836		\$	8,768
9703-6269	SOH DOHHL	2	10	62,058		\$	17,266
0103-6662	SOH DOHHL	3	3	9,605		\$	2,023
9301-1976	SOH DOHHL	5	8	1,503,491		\$	238,763
Н	SOH DOHHL	6	1	93,040		\$	25,768
	DEPT OF HAWIIAN HOME L	ANDS TO	42	1,737,030	0.26%	\$	292,588

Table 2 - State of Hawaii Agency Electrical Consumption

CUSTOMER NUMBER		TARIFF CODE	APPROX # METERS	ANNUAL kWh	% TOTAL CONSUMPTION	ANNUAL COST
9502-1446	SOH DOH	1	48	22,419,959		\$ 2,435,205
8603-6561	SOH DOH	2	37	14,195,299		\$ 2,262,192
8700-1032	SOH DOH	3	44	9,586,021		\$ 1,373,855
8703-6225	SOH DOH	4	2	200,683		\$ 48,985
9204-2979	SOH DOH	5	1	1,188,000		\$ 231,870
I	SOH DOH	6	3	32,842		\$ 8,485
	DEPT OF HEALTH TOTAL		135	47,622,804	7.12%	\$ 6,360,592
8811-8347	SOH DOHS	1	65	2,985,569		\$ 376,991
9402-3824	SOH DOHS	2	17	533,195		\$ 116,348
8700-1090	SOH DOHS	3	8	155,532		\$ 30,840
К	SOH DOHS	6	10	189,249		\$ 47,172
	DEPT OF HUMAN SERVICES	S TOTAL	100	3,863,545	0.58%	\$ 571,351
8809-6280	SOH DOLIR	1	5	122,953		\$ 17,407
8602-9149	SOH DOLIR	2	12	312,299		\$ 76,484
Ν	SOH DOLIR	6	<u>2</u>	39,100		\$ 9,705
	DEPT OF LABOR & IND REL	-	_	474,352	0.07%	\$ 103,596
8807-7879	SOH DOL&NR	1	90	2,215,366		\$ 290,054
9201-8358	SOH DOL&NR	2	42	707,805		\$ 156,739
8702-4781	SOH DOL&NR	3	37	252,198		\$ 52,586
8702-4781	SOH DOL&NR	4	2	12,000		\$ 3,049
9204-4602	SOH DOL&NR	5	5	33,435		\$ 10,131
0	SOH DOL&NR	6	22	291,899		\$ 74,298
	DEPT OF LAND & NAT RES	TOTAL	198	3,512,703	0.53%	\$ 586,857
9401-3209	SOH PSD	1	10	16,762,902		\$ 1,708,410
8603-9236	SOH PSD	2	15	2,541,991		\$ 437,712
8700-2210	SOH PSD	3	2	2,203,910		\$ 328,144
Q	SOH PSD	6	7	859,093		\$ 194,620
	DEPT OF PUBLIC SAFETY T	OTAL	34	22,367,896	3.35%	\$ 2,668,887
8800-1207	SOH DOT AIR DIV	1	60	104,775,202		\$10,291,990
8604-9500	SOH DOT AIR DIV	2	28	9,736,183		\$ 1,515,170
0101-5653	SOH DOT AIR DIV	3	4	10,497,460		\$ 1,527,209
8700-9409	SOH DOT AIR DIV	4	1	523,200		\$ 131,385
8700-9409	SOH DOT AIR DIV	5	2	106,701		\$ 24,214
R	SOH DOT AIR DIV	6	12	4,508,581		<u>\$ 981,153</u>
	DOT AIRPORTS DIVISION TO	OTAL	107	130,147,327	19.47%	\$14,471,121
8820-6076	SOH DOT HAR DIV	1	66	4,559,658		\$ 603,619
8600-2215	SOH DOT HAR DIV	2	11	84,481		\$ 23,462
9102-5682	SOH DOT HAR DIV	3	10	410,487		\$ 80,574
9102-5682	SOH DOT HAR DIV	5	1	13,137		\$ 3,895
S	SOH DOT HAR DIV	6	11	312,006		<u>\$81,876</u>
	DOT HARBORS DIVISION TO	DTAL	99	5,379,769	0.80%	\$ 793,425

Table 2 - State of Hawaii Agency Electrica	I Consumption (continued)
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CUSTOMER NUMBER	AGENCY	TARIFF CODE	APPROX # METERS	ANNUAL kWh	% TOTAL CONSUMPTION	1	ANNUAL COST
8801-5441	SOH DOT HWY DIV	1	454	26,423,316		\$	3,267,727
8602-1234	SOH DOT HWY DIV	2	98	1,246,898		\$	282,303
8701-8331	SOH DOT HWY DIV	3	225	1,727,015		\$	381,013
8701-8331	SOH DOT HWY DIV	4	3	1,476		\$	861
9204-1732	SOH DOT HWY DIV	5	11	150,304		\$	44,899
Т	SOH DOT HWY DIV	6	36	393,868		\$	101,346
	DOT HIGHWAYS DIVISION	TOTAL	827	29,942,877	4.48%	\$	4,078,149
8822-2776	SOH HCDCH	1	785	19,429,529		\$	2,329,590
8600-2366	SOH HCDCH	2	345	1,196,518		\$	296,193
8807-8210	SOH HCDCH	3	131	867,422		\$	160,119
9400-0679	SOH HCDCH	5	8	24,004		\$	7,286
J	SOH HCDCH	6	23	387,202		\$	95,834
	HOUSING & COMM DEV CO	ORP OF H	1,292	21,904,675	3.28%	\$	2,889,022
8820-5405	JUDICIARY DEPT	1	19	12,057,449		\$	1,321,155
9400-6716	JUDICIARY DEPT	2	9	266,482		\$	59,297
9202-2806	JUDICIARY DEPT	3	1	10,840		\$	2,353
L	JUDICIARY DEPT	6	10	151,917		\$	38,277
	JUDICIARY DEPT TOTAL		39	12,486,688	1.87%	\$	1,421,082
9202-6207	NELHA	2	6	3,498,125		\$	554,543
	NAT ENERGY LAB OF HAW	/ TOTAL	6	3,498,125	0.52%	\$	554,543
8800-5226	SOH OFF LT. GOV	1	2	120,309		\$	16,710
	OFFICE OF LT GOVERNOR	TOTAL	2	120,309	0.02%	\$	16,710
8701-6933	SOH HSPLS	1	45	6,767,094		\$	857,530
8604-7371	SOH HSPLS	2	12	633,397		\$	134,699
8701-6933	SOH HSPLS	3	5	587,730		\$	106,948
8701-6933	SOH HSPLS	4	1	79,360		\$	22,613
8701-6933	SOH HSPLS	5	2	40,851		\$	10,314
Р	SOH HSPLS	6	4	597,280		\$	148,432
	HAW STATE PUBLIC LIBRA	RIES SY	69	8,705,712	1.30%	\$	1,280,535
8820-2530	SOH - OTHER	1	6	1,438,947		\$	163,053
8604-9277	SOH - OTHER	2	8	60,216		\$	15,874
0100-5035	SOH - OTHER	3	8	233,249		\$	44,236
8701-5117	SOH - OTHER	4	1	90,979		<u>\$</u>	23,502
	SOH OTHER FACILITIES TO	DTAL	23	1,823,391	0.27%	\$	246,664
8824-1170	SOH STADIUM AUTH	1	4	3,544,412		\$	480,164
	STADIUM AUTHORITY TOT	AL	4	3,544,412	0.53%	\$	480,164

CUSTOMER NUMBER	AGENCY	TARIFF CODE	APPROX # METERS	ANNUAL kWh	% TOTAL CONSUMPTION	ANNUAL COST
8816-7592	U OF H MANOA	1	128	136,648,607		\$13,341,627
8603-6037	U OF H MANOA	2	1	1,268		\$ 862
8801-3683	U OF H WEST OAHU	1	1	43,564		\$ 6,068
8603-6037	U OF H HAWAI'I	2	58	11,486,642		\$ 2,018,030
8701-4964	U OF H MAUI	3	13	530,172		\$ 92,622
U	U OF H HAWAI'I	6	3	6,864		\$ 2,439
	UNIVERSITY OF HAWAII TO	OTAL	204	148,717,117	22.25%	\$15,461,649
8824-5561	U OF H COMM COLL	1	18	22,848,884		\$ 2,584,923
8700-8959	U OF H COMM COLL	3	6	4,948,494		\$ 753,032
8701-6938	U OF H COMM COLL	4	1	26,716		\$ 6,629
9204-1172	U OF H COMM COLL	5	3	203,620		\$ 47,084
	U OF H COMM COLL	6	3	1,962,205		\$ 463,532
	COMMUNITY COLLEGE TO	DTAL	31	29,989,919	4.49%	\$ 3,855,199
CUSTOMER					N/ TOTAL	
NUMBER	AGENCY	TARIFF CODE	APPROX # METERS	ANNUAL kWh	% TOTAL CONSUMPTION	ANNUAL COST
	AGENCY		-	-	% TOTAL CONSUMPTION 79.56%	-
		CODE 1	# METERS	kWh	CONSUMPTION	COST
	ISLAND OF OAHU TOTAL	CODE 1	# METERS 2,209	kWh 531,823,960	CONSUMPTION 79.56%	COST \$58,540,841
	ISLAND OF OAHU TOTAL ISLAND OF HAWAII TOTAL	CODE 1 2 3	# METERS 2,209 902	kWh 531,823,960 66,099,499	CONSUMPTION 79.56% 9.89%	COST \$58,540,841 \$11,882,662
	ISLAND OF OAHU TOTAL ISLAND OF HAWAII TOTAL ISLAND OF MAUI TOTAL	CODE 1 2 3	# METERS 2,209 902 570	kWh 531,823,960 66,099,499 45,169,390	CONSUMPTION 79.56% 9.89% 6.76%	COST \$58,540,841 \$11,882,662 \$7,328,796
	ISLAND OF OAHU TOTAL ISLAND OF HAWAII TOTAL ISLAND OF MAUI TOTAL ISLAND OF MOLOKAI TOTA	CODE 1 2 3 4	# METERS 2,209 902 570 13	kWh 531,823,960 66,099,499 45,169,390 1,385,134	CONSUMPTION 79.56% 9.89% 6.76% 0.21%	COST \$58,540,841 \$11,882,662 \$7,328,796 \$356,946

Table 2 - State of Hawaii Agency Electrical Consumption (continued)

LEGEND:

TARIFF CODE1 = HAWAIIAN ELECTRIC COMPANY (HECO)CONSUMPTION DATA FOR 1-JUL-01 THROUGH 30-JUN-022 = HAWAII ELECTRIC COMPANY (HELCO)CONSUMPTION DATA FOR 1-JUL-01 THROUGH 30-JUN-023, 4, & 5 = MAUI ELECTRIC COMPANY (MECO)CONSUMPTION DATA FOR 1-JUL-01 THROUGH 30-JUN-026 = KAUAI ISLAND UTILITY COOPERATIVE (KIU CONSUMPTION DATA FOR 1-JAN-01 THROUGH 31-DEC-0)

CONSUMPTION INCLUDES TOTAL ELECTRICAL CONSUMPTION BY ISLAND AND STATEWIDE FOR EACH AGENCY

EXISTING STATE PROGRAM DESCRIPTIONS

The Department of Business, Economic Development, and Tourism (DBEDT) through its Energy, Resources, and Technology Division (ERTD) has been the catalyst in the implementation of the Energy Performance Contracting (EPC) program in the State of Hawaii. The University of Hawaii-at-Hilo has implemented an EPC, has utilized HECO's DSM program and has reduced its energy consumption by approximately 20%. The Hawaii Health Systems Corporation, the Judiciary and Department of Defense are currently involved in the implementation of EPC projects.

Many agencies have also pursued utility DSM programs. In HECO territory these utility programs have reduced state agency electrical consumption by approximately 3%. A listing of large agencies who have participated in the program are identified in Table 3. A complete listing of agencies and measures implemented is included in Appendix B.

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	TARCDE- CO_CODE		KWH SAVED	% SAVINGS
9600-5614-003	CONV CTR	1777 KAPIOLANI BV (CONV CTR)	1-P	\$250,500	2,479,625	24.79%
8800-6839-077	DAGS	400 S HOTEL ST (STATE CAPITOL)	1-P	\$420	2,460	0.04%
8819-2839-079	DAGS	919 ALA MOANA BLVD (AAFES)	1-P	\$50	211	0.01%
8819-9076-075	DAGS	869 PUNCHBOWL ST (TRANSPORTATIC	1-P	\$7,440	153,504	10.23%
8824-4781-075	DAGS	465 S KING ST (KEKUANO "A" BLDG)	1-P	\$5,375	72,078	4.72%
8820-3136-075	DAGS	400 S KING ST (ARCHIVES)	1-P	\$2,330	46,535	23.43%
8820-4007-075	DAGS	1390 MILLER ST (QUEEN LILIOLULULAN	1-P	\$13,331	240,207	8.91%
8820-5318-076	DAGS	1151 PUNCHBOWL ST (KALANIMOKU)	1-P	\$30,640	335,772	4.52%
8824-3048-076	DAGS	235 S BERETANIA ST (OFFICE TOWER)	1-P	\$13,572	298,188	10.83%
8824-8557-076	DAGS	830 PUNCHBOWL ST (OFFICE BLDG #2)	1-P	\$31,397	774,904	14.88%
8824-8619-075	DAGS	1010 RICHARDS ST (KAMAMALU)	1-P	\$380	623	0.04%
9800-1977-002	DAGS	601 KAMOKILA BV (KAKUIHEIWA)	1-P	\$38,819	456,479	13.94%
8819-4961-076	DBEDT	0 FT ARMSTRONG PIER 2 (FOR'N TRAD	1-P	\$3,528	54,183	7.07%
9500-4908-001	DOD	961210 WAIHONA ST	1-P	\$1,808	27,338	4.73%
0000-3209-004	DOE	915007 KAPOLEI PKWY	1-P	\$3,599	58,858	2.51%
8801-5195-077	DOE	91884 FT WEAVER RD	1-P	\$1,560	11,134	16.06%
8803-9117-078	DOE	85251 FARRINGTON HY (WAIANAE INT)	1-P	\$3,600	27,835	2.53%
8809-5090-078	DOE	45259 WAIKALUA RD (BEN PARKER)	1-P	\$471	4,120	0.95%
8809-6595-077	DOE	760 ILIAINA ST (KALAHEO)	1-P	\$247	2,354	0.22%
8812-7930-077	DOE	4680 KALANIANAOLE HY (KALANI HIGH)	1-P	\$5,166	27,221	4.62%
8814-6868-077	DOE	2705 KAIMUKI AVE (KAIMUKI HIGH)	1-P	\$3,503	18,440	0.87%
8818-9733-077	DOE	SOH DEPARTMENT OF EDUCATION	1-P	\$762	12,851	2.17%
8822-5334-078	DOE	1185 ALA NAPUNANI ST (MOANALUA HI	1-P	\$2,162	37,867	2.25%
8823-0071-078	DOE	1131 ALA LILIKOI ST (SALT LAKE)	1-P	\$4,778	80,148	18.01%
8823-4771-077	DOE	3271 SALT LAKE BV (ALIAMANU INT)	1-P	\$740	7,456	1.70%
8824-0008-003	DOE	301 N SCHOOL ST (KAULUWELA)	1-P	\$1,574	27,566	6.45%
8825-5514-077	DOE	98375 MOANALUA RD #M40 (WAIMALU)	1-P	\$1,400	18,639	4.51%
8825-7503-079	DOE	981270 ULUNE ST (AIEA HIGH)	1-P	\$3,355	58,762	6.49%

Table 3 – DSM Equipment Installation History Large State Facilities

Table 3 – DSM Equipment Installation History Large State Facilities (cont'd)
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ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	TARCDE- CO_CODE		KWH SAVED	% SAVINGS
8813-6841-075	DOH	3675 KILAUEA AV	1-P	\$18,427	343,398	10.59%
8821-2602-075	DOH	1103 HALA DR (MALUHIA HOSP)	1-P	\$8,276	182,602	7.08%
8800-6358-076	DOT-AIR D	301 RODGERS BV #A (DH EXT)	1-P	\$35,244	765,243	6.09%
8800-6360-075		303 RODGERS BV #373 (DHGW VLT "1D	1-P	\$14,370	93,199	1.22%
8800-6364-076		301 RODGERS BV (CEN CON VLT "Y")	1-P	\$21,960	386,949	6.39%
9300-0115-002	DOT-AIR D	3650 AOLELE ST (NEW INTRISLE TERM)	1-P	\$8,104	228,532	15.87%
8808-8598-075	UH MANOA	46007 LILIPUNA RD	1-P	\$3,495	66,433	8.58%
8815-4443-075	UH MANOA	2777 KALAKAUA AV	1-P	\$210	3,063	0.24%
8816-2154-076	UH MANOA	1701 EAST WEST RD	1-P	\$138,241	1,083,618	0.89%
9700-0159-002	UH MANOA	2019 S KING ST	1-P	\$4,158	23,871	11.04%
8801-5005-075	UH-COMM	96045 ALAIKE ST (LEEWARD)	1-P	\$45,398	710,841	11.72%
8814-8544-076	UH-COMM	655 MAKAPUU AV (KAPALUA)	1-P	\$46,319	856,448	9.75%
8823-6252-075		874 DILLINGHAM BV (HONOLULU)	1-P	\$97,975	1,413,472	22.70%
9500-5803-001		45720 KEAAHALA RD (HALE IMILOA)	1-P	\$10,115	143,740	4.00%
8603-9132-001	DAGS	75 AUPUNI ST	2-H	\$14,424	253,048	18.66%
8603-4139-003		556 WAIANUENUE AV (HILO HS)	2-H	\$672	6,144	0.62%
9900-0545-003		KEAAU HIGH SCHOOL	2-11 2-H	\$301	7,374	0.02 %
				·		
8602-4929-001		KEALAKEKUA	2-H	\$15,448	270,267	7.51%
8603-4191-001		1190 WAIANUENUE AV	2-H	\$1,962	41,440	8.02%
8603-4192-002		1191 WAIANUENUE AV	2-H	\$14,316	352,660	4.59%
9400-6479-001	DOH-HHH	HONOKAA	2-H	\$5,827	124,360	8.43%
9800-3025-001	DOH-HILO	WAIANUENUE AV	2-H	\$751	25,448	5.14%
9700-1436-001	PSD	VOLCANO HY #PANAEWA P21	2-H	\$746	11,347	2.76%
8600-1960-001	DOT-AIR D	I KEAHOLE AIRPORT	2-H	\$3,899	88,296	1.62%
8604-3528-001	DOT-AIR D	ILYMAN FIELD	2-H	\$10,528	185,372	4.78%
9201-0365-001	NELHA	KEAHOLE PT #PMP SHELTR MAKAI S	2-H	\$720	12,396	5.37%
9900-0408-002	NELHA	KEAHOLE PT #BOOSTER PUMP	2-H	\$840	15,106	2.63%
9300-0056-001	HSPLS	WAIANUENUE AV #ADDITION	2-H	\$1,413	9,006	3.20%
0000-1352-003	UH-HAWAII	KOMOHANA ST	2-H	\$9,017	149,468	15.69%
8603-0642-001		W KAWILI ST #THEATER BLDG	2-H	\$2,994	38,972	13.03%
8603-1035-001	-	LANIKAULA ST	2-H	\$2,236	50,648	8.59%
8603-1037-001		LANIKAULA ST #H	2-H	\$529	9,317	11.68%
8603-6715-001		MAUNA KEA SUPPORT SERVICES	2-H	\$1,170	16,286	4.25%
8604-2845-001		W KAWILI ST #AUTO SHOP COMPLEX	2-H	\$5,474	69,993	20.87%
8604-2846-001	-	W KAWILI ST #ATHLETIC COMPLEX	2-H	\$2,069	28,786	10.17%
8604-6377-001		875 KOMOHANA ST #AG CENTER	2-H	\$7,562	87,133	17.76%
9600-2104-001		1179 MANONO ST #COMMUNITY COLL	2-H	\$13,656	169,450	12.15%
9900-2035-002		NOWELO ST - MAIN SW GEAR	2-H	\$1,500	23928	0.42%
8700-0354-002	DOE	KAAHUMANU AV #BHS-BALDWIN HS	3-M	\$4,544	59,085	8.87%
8701-6439-001	DOH-KULA	208 KULA SAN LP (KULA SANITORIUM)	3-M	\$2,842	63,452	7.19%
9700-1019-003		MAHALANI ST	3-M	\$38,645	655,758	7.20%

TARCDE

CO_CODE

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	TARCDE- CO_CODE		KWH SAVED	% SAVINGS
8700-8946-001	DOT-AIR D	DI KAHALUI AIRPORT RD	3-M	\$41,032	1,555,377	14.07%
8700-8296-001	UH-COMM	KAAHUMANU AV (MAUI)	3-M	\$24,438	340,146	6.50%
9200-7029-002 9200-8642-002	DOE DOE	LIBRARY - MOLOKAI HIGH PRINCIPAL'S OFFICE - KAUNAKAKAI	5-M 5-M	\$2,008 \$655	12,031 6,042	4.04% 2.35%
LEGEND:						

TARIFF CODE: 1 = HECO (OAHU) 2 = HELCO (BIG ISLAND) 3 = MECO (MAUI) 5 = MECO (LANAI)

Table 3 – DSM Equipment Installation History Large State Facilities (cont'd)

LARGE FACILITY FACILITY USING MORE THAN 1 MILLION KWH ANNUALLY

COMPANY CODE: P = HECO H = HELCO M = MECO

In 2001, the legislature passed a bill to establish a centralized master lease financing program, to include a line of credit financing option for, among other things, energy retrofits. This program has not yet been implemented. There is currently reluctance by Energy Service Companies (ESCOs) to directly provide financing for EPCs. The ESCOs prefer that State Agencies utilize third party financing for project implementation.

State agencies have been active in pursuing energy efficiencies in their facilities. Part II Section 196 HRS will, however, require agencies to renew their efforts to conserve electricity and water and to reduce greenhouse gases. The goals established by the legislation will require long term commitment to conservation, renewable resources, and improved efficiency.

FACILITIES WITH HIGH PROBABILITY FOR EPC

Table 4 identifies State facilities with consumption exceeding one million kWh per year. Table 4 was developed to identify facilities that would be most eligible for EPC. Originally a cut-off point of \$50,000 per year in annual billing was used to identify the larger facilities. Those facilities using over \$50,000 and less than one million kWh can be seen in Appendix A. Over a third of the facilities were multiple metered and many of the rate schedules did not include demand charges. The use of 1 million kWh significantly reduced the number of facilities from initial consideration but did not make a large difference in the amount of consumption that could be impacted by the EPC program.

Table 3 identified facilities that have taken advantage of the utility's DSM programs. Some of the facilities have achieved savings in the range of 10% to 25% of their consumption. Selection of facilities to concentrate on for initial EPC projects should have a relatively low record of energy conservation projects that have been implemented. In addition to the information in Table 3, Appendix B contains information on the specific projects that were implemented. This will be helpful in determining the type of project that will potentially meet cost-effectiveness criteria. For example, if a large lighting efficiency project has been completed then another similar project will not yield sufficient savings for an EPC contract. If, however, a chiller upgrade has not taken place since the lighting efficiency improvement, an EPC project would offer opportunities for savings.

Facility square footage and ownership information should be determined prior to final selection of pilot programs. Estimates of consumption have been made using twentytwo kWh per square foot per year. This figure came from the Energy Services Department at HECO and is very close to the number estimated in the Energy Performance Contracting Report and Recommendations for the State of Hawaii dated August 2001. State-Owned facilities can enter into fifteen-year agreements for the entire EPC. Leased facilities, however, are constrained by the term of the lease, so there are normally fewer cost-effective projects available for implementation. Energy upgrades are usually accomplished at the time of lease negotiation or re-negotiation.

Facility occupancy patterns and security issues need to be identified also. A low number of operating hours may make it difficult to identify cost effective projects. High occupancy hours in a secure facility may also be difficult to justify because of the extra security and tamper proof equipment that will increase labor and material costs. The total number of state facilities has been reduced to 108 for initial consideration for the EPC program. These facilities account for over 70% of the total state facility electrical consumption. There are operational conditions that still need to be evaluated before final selection. However, all of the major consuming facilities will have been considered for the initial implementation of EPC contracts.

Table 4 - State of Hawaii Large Facility Electrical Consumption

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
8800-6839-077	SOH DAGS	400 S HOTEL ST (STATE CAPITOL)	PS5	1	12	6,304,000	\$706,863
8819-2839-079	SOH DAGS	919 ALA MOANA BLVD (AAFES)	J3	1	12	2,473,000	\$276,003
8819-9076-075	SOH DAGS	869 PUNCHBOWL ST (TRANSPORTATION)	J	1	24	1,731,520	\$202,071
8820-4007-075		1390 MILLER ST (QUEEN LILIOLULANI)	J3	1	12	2.455.000	\$278,499
8820-5318-076		1151 PUNCHBOWL ST (KALANIMOKU)	PS5	1	12	7,090,200	\$748,490
8820-5319-075		1250 PUNCHBOWL ST (KINAU HALE)	J	1	12	1,809,600	\$212,508
8824-3048-076		235 S BERETANIA ST (OFFICE TOWER)	J	1	12	2,455,600	\$286,964
8824-4189-078		250 S HOTEL ST (NO. 1-DISTRICT BLDG)	J	1	12	2,312,400	\$254,056
8824-4781-075		465 S KING ST (KEKUANAO'A BLDG)	J	1	12	1,455,200	\$169,777
8824-8557-076		830 PUNCHBOWL ST (OFFICE BLDG #2)	J	1	12	4,431,600	\$505,809
8824-8619-075		1010 RICHARDS ST (KAMAMALU)	J5	1	12	1,504,000	\$176,553
9800-1977-002		601 KAMOKILA BV (KAKUIHEIWA KAPOLEI)	J	1	12	2,818,000	\$330,470
8823-4938-076		99500 SALT LAKE BV (STADIUM AUTHORITY)	J3	1	20	3,520,200	\$476,568
TOTAL	SOH DAGS LAI	RGE FACILITIES			13 Facilities	40,360,320	\$4,624,631
9600-5614-003	SOH DBEDT	1777 KAPIOLANI BV (HCC)	PS	1	12	7,524,000	\$909,670
8819-4960-078		0 FT ARMSTRONG PIER 2 (FTZ)	J	1	24	1,054,720	\$125,326
8819-5909-075		1541 KALAKAUA AV (HCDCH)	PP3	1	12	1,931,000	\$199,992
8823-1584-076		99132 KOHOMUA ST (HCDCH)	PP3	1	12	2,146,200	\$227,696
9400-2851-001		1545 LINAPUNI ST #BLDG B (HCDCH HHA)	J	1	12	1,131,680	\$121,062
9400-2852-001		1475 LINAPUNI ST #BLDG (HCDCH HHA)	J	1	12	1,233,120	\$129,019
TOTAL	SOH DBEDT LA	ARGE FACILITIES			6 Facilities	15,020,720	\$1,712,765
8811-6162-076	SOH DOD	3949 DIAMOND HEAD RD	J	1	36	1,530,720	\$174,952
TOTAL	SOH DODEFEN	NSE LARGE FACILITIES			1 Facility	1,530,720	\$174,952
0000-3209-004	SOH DOF	915007 KAPOLEI PKWY	J	1	12	2,290,000	\$272,434
0100-2579-004		46155 KAMEHAMEHA HY	J	1	11	1,190,880	\$150,605
0100-2966-002		91884 FT WEAVER RD	J	1	29	2,320,000	\$294,371
8801-3223-078		2460 WAIMANO HOME RD (PEARL CITY HIGH	J3	1	12	1,494,600	\$182,507
8801-5001-077		941211 FARRINGTON HY (WAIPAHU HIGH)	J	1	24	1,659,200	\$220,988
8803-0106-077		89980 NANAKULI AV (NANAKULI HIGH & INTE	J3	1	12	1,302,600	\$170,626
8803-9117-078		85271 FARRINGTON HY (WAIANAE HIGH)	J	1	12	1,074,080	\$133,018
8806-1340-077		951200 MEHEULA PARKWAY(MILILANI HIGH)	J3	1	12	1,576,800	\$190,821
8806-3539-079		67160 FARRINGTON HY (WAIALUA HIGH)	J	1	48	1,081,360	\$190,821
8809-2020-077		45386 KANEOHE BAY DR (CASTLE HIGH)	J3	1	48 58	1,752,195	\$149,799 \$214,752
8809-6595-077	SOH DOF	760 ILIAINA ST (KALAHEO)	J	1	12	1,082,880	\$132,615
8811-3369-078		511 LUNALILO HOME RD (KAISER HIGH)	J3	1	24	1,610,160	\$200,482
8811-3369-078		4680 KALANIANAOLE HY (KALANI HIGH)	J3 J	1	24 36	1,028,632	\$200,482 \$124,411
8814-6868-077				1			
8814-6868-077		2705 KAIMUKI AVE (KAIMUKI HIGH)	J3 J	1	24 24	2,159,820	\$248,180
		1120 NEHOA ST (ROOSEVELT HIGH)				1,321,800	\$168,822
8819-7510-077		1039 S KING ST (MCKINLEY HIGH)	J	1 1	23 72	2,429,760	\$293,098
8821-9443-077		1564 N KING ST (FARRINGTON HIGH)	J			1,812,520	\$229,097
8822-5334-078		1185 ALA NAPUNANI ST (MOANALUA HIGH)	J	1	47	2,035,520	\$254,203
9600-2562-003		911561 KEAUNUI RD HOLOMUA ELEMENTAR		1	12	1,508,400	\$185,101
9800-2018-003		951140 LEHIWA DR (MILILANI INTERMED)	J	1	12	2,058,800	\$250,898
9900-0148-003 8820-3139-077		915335 KAPOLEI PKWY (KAPOLEI MID SCH) 478 S KING ST (HAWAII STATE LIBRARY)	J J	1 1	12 12	1,589,520 1,592,160	\$194,644 \$187,215
TOTAL	SOT DOEDUCA	ATION LARGE FACILITIES			22 Facilities	35,971,687	\$4,448,686

Table 4 - State of Hawaii Large Facility Electrical Consumption (cont'd)

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
8808-7404-076	SOH DOH	45747 KEAAHALA RD (HAWAII STATE HOSP)	PP3	1	12	4,162,800	\$417,401
8808-7405-075	SOH DOH	45633 KEAAHALA RD	J3	1	12	1,073,600	\$121,437
8813-6833-076	SOH DOH	3627 KILAUEA AV (ADMIN SRVC OFF)	J	1	12	1,604,400	\$191,076
8813-6841-075	SOH DOH	3675 KILAUEA AV	PP3	1	12	2,898,000	\$316,966
8821-2602-075		1103 HALA DR (MALUHIA HOSP)	PP3	1	12	2.395.200	\$241.526
9300-8875-002		2725 WAIMANO HOME RD (ADMIN OFF)	PS	1	12	6,542,400	\$661,633
TOTAL	SOH DOHEALT	TH LARGE FACILITIES			6 Facilities	18,676,400	\$1,950,040
8803-9993-076	SOH PSD	94560 KAMEHAMEHA HY (WAIAWA CORR FA(J3	1	12	1,270,000	\$139,010
8823-3657-076	SOH PSD	5100 MOANALUA RD	J	1	12	1,400,880	\$144,947
8823-3672-076	SOH PSD	99902 MOANALUA RD (HALAWA PRISON)	PS	1	12	5,276,400	\$534,959
8823-8291-076		2199 KAMEHAMEHA HY (OCCC & HSE CORR)		1	12	6,709,200	\$663,984
9300-5247-002		42477 KALANIANAOLE HY	J	1	12	1,667,280	\$173,747
TOTAL	SOH DEPT OF	PUBLIC SAFETY LARGE FACILITIES			5 Facilities	16,323,760	\$1,656,646
0000-3507-001	SOH DOT - AIR	2 C40 PIER (KAPALAMA MIL RES)	J	1	18	3,658,000	\$439,698
		E 302 RODGERS BV #344 (IAB VAULT "B")	PP3	1	12	13,664,000	\$1,314,748
		2 E 302 RODGERS BV #342 (SVC CRT VLT "C")	PP3	1	12	7,488,000	\$704,535
		2 E 302 RODGERS BV #342 (SVC CRT VET C)	PP3	1	12	16,932,000	\$1,603,470
			PP3				
		E 1304 RODGERS BV #360 (EWA VLT "1E")		1	12	4,598,000	\$442,388
		E 2300 RODGERS BV (COMM TERM ELEC)	J3	1	12	1,269,600	\$128,209
		E 300 RODGERS BV #355 (OSPARK VLT "A")	J4	1	12	1,848,240	\$184,599
8800-6358-076	SOH DOT - AIR	2 E301 RODGERS BV #A (DIA HD EXT)	PP3	1	12	11,793,600	\$1,118,490
		E 301 RODGERS BV (CEN CONC VLT "Y")	PP3	1	12	5,667,600	\$565,779
		2 E 303 RODGERS BV #373 (DIA HD VLT "1D")	PP3	1	11	7,524,000	\$720,395
		C 3651 AOLELE ST (EWA CHILLER PLT)	PP3	1	12	11,959,200	\$1,204,785
9300-0115-002	SOH DOT - AIR	C 3650 AOLELE ST (NEW INTERISLE TERM)	PS	1	12	12,211,200	\$1,171,502
9300-4842-002	SOH DOT - AIR	E 3661 AOLELE ST (EWA CONC GATES)	PP3	1	12	2,311,200	\$230,294
8811-0340-076	SOH DOT HWY	2 PALI HY (PRIMECO & ST LTS)	J3	1	11	1.016.720	\$104,055
		COWILSON TUNNEL	J3	1	12	1,379,200	\$143,008
		CO H-3 TUNNEL HAIKU IB PORTAL (HE INT)	J3	1	12	4,146,000	\$527,091
TOTAL	SOH DOTRANS	SPORTATION LARGE FACILITIES			16 Facilities	107,466,560	\$10,603,047
8819-9077-077	SOH JUDICIAR	Y 777 PUNCHBOWL ST (KAAHUMANU HALE)	PS	1	12	4,061,600	\$445,706
8824-2360-078	SOH JUDICIAR	Y 1111 ALAKEA ST (KAUIKEAOULI DIS CT 1ST C	PS	1	12	5,164,000	\$536,808
8824-4780-075	SOH JUDICIAR	Y 417 S KING ST (ALIIOLANE HALE)	J5	1	12	1,693,440	\$192,290
TOTAL	SOH JUDICIAR	Y LARGE FACILITIES			3 Facilities	10,919,040	\$1,174,803
8813-7302-075	UH MANOA	650 MAKAPUU AV (SCHOOL OF MEDICINE)	J	1	12	1,035,920	\$108,285
8815-4443-075	UH MANOA	2777 KALAKAUA AV (WAIKIKI AQUARIUM)	J	1	12	1,292,880	\$133,874
8816-2141-076	UH MANOA	2445 DOLE ST (FACILITIES MGMT)	J	1	24	1,409,920	\$160,565
8816-2154-076		1701 EAST WEST RD (FACILITIES MGMT)	PP3	1	12	121,201,200	
8817-7690-076		2680 WOODLAWN DR (ASTRONOMY FAC)	PP3	1	12	2,075,400	\$211,407
9800-2426-001		46007 LILIPUNA RD (HIMB)	J	1	12	1,736,240	\$177,048
TOTAL	UH MANOA LA	RGE FACILITIES			6 Facilities	128,751,560	\$12,376,756
8801-5005-075	UH COMM COL	LL 96045 ALAIKE ST (LEEWARD)	PP3	1	12	5,355,600	\$601,530
		L 655 MAKAPUU AV (KAPIOLANI BUSINESS)	J3	1	12	7,930,800	\$888,040
		L 874 DILLINGHAM BV (HONOLULU)	PP3	1	36	4,915,590	\$563,697
		L 45720 KEAAHALA RD (HALE IMILOA)	PS	1	12	3,447,600	\$369,203
TOTAL	UH COMMUNIT	TY COLLEGES LARGE FACILITIES			4 Facilities	21,649,590	\$2,422,470
TOTAL	OAHU SOH LA	RGE FACILITIES			82 Facilities	396,670,357	\$41,144,797

Table 4 - State of Hawaii Large Facility Electrical Consumption (cont'd)

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
8603-9132-001	SH DAGS	75 AUPUNI ST	J3	2	12	1,103,200	\$197,757
TOTAL	SH DAGS LARG	E FACILITIES			1 Facility	1,103,200	\$197,757
8600-1704-001	SH DBEDT	KEAHOLE #OTEC CABINET (NELHA)	J3	2	12	2,001,600	\$309,638
TOTAL	SH DBEDT - NEI	LHA LARGE FACILITIES			1 Facility	2,001,600	\$309,638
9700-1291-003 9800-2311-002	SH DOE/HELCO SH DOE/HELCO	WAIAKEA HIGH SCHOOL KEALAKEHE #HIGH SCHOOL KEAAU PAHOA RD-ELEMENTARY II KEAAU HIGH SCHOOL	J3 J J J	2 2 2 2	12 12 11 12	1,203,000 1,198,400 1,120,660 2,024,400	\$217,265 \$223,070 \$211,799 \$379,311
TOTAL	SH DOEDUCATI	ON/HELCO LARGE FACILITIES			4 Facilities	5,546,460	\$1,031,445
8602-4929-001 0000-0000-022 9400-6479-001	SH DOH	KEALAKEKUA (KONA HOSP) 1190 WAIANUENUE AV (HILO MED CTR) HONOKAA (HAMA HOOLA HAMAKUA)	P3 P J	2 2 2	12 12 12	3,328,800 7,804,200 1,350,000	\$490,876 \$1,197,069 \$234,808
TOTAL	SH DOHEALTH	LARGE FACILITIES			3 Facilities	12,483,000	\$1,922,753
9700-3316-002	SH PSD	STAINBACK HY (CORRECTIONAL DIV)	Р	2	12	1,152,400	\$196,470
TOTAL	SH DEPT OF PU	IBLIC SAFETY LARGE FACILITIES			1 Facility	1,152,400	\$196,470
	SH DOT AIR DIV SH DOT AIR DIV	Y KEAHOLE AIRPORT Y LYMAN FIELD	P3 P3	2 2	12 12	5,348,400 3,696,000	\$790,954 \$575,646
TOTAL	SH DOTRANSPO	ORTATION LARGE FACILITIES			2 Facilities	9,044,400	\$1,366,600
		1175 MANONO ST (COMMUNITY COLL) NOWELO ST - MAIN SW GEAR	J3 P3	2 2	12 12	1,224,720 5,633,100	\$218,355 \$927,075
TOTAL	SH UH HAWAI'I	LARGE FACILITIES			2 Facilities	6,857,820	\$1,145,430
TOTAL	BIG ISLAND (HA	WAI'I) SOH LARGE FACILITIES			14 Facilities	38,188,880	\$6,170,094
TOTAL	ALL BIG ISLAND	(HAWAI'I) SOH FACILITIES				66,099,499	\$11,882,662
8701-2872-002 9500-3543-003		LONO AV (MAUI HIGH) KULA HY (KING KEKAULIKE SCH)	J3 J	3 3	12 12	1,407,000 1,183,000	\$243,823 \$211,857
TOTAL	SOH DOEDUCA	TION LARGE FACILITIES			2 Facilities	2,590,000	\$455,680
9700-1019-003	SOH DOH	MAHALANI ST (MAUI MEM MED CTR)	Р	3	12	8,451,000	\$1,183,936
TOTAL	SOH DOHEALTH	LARGE FACILITIES			1 Facility	8,451,000	\$1,183,936
9300-9041-001	SOH PSD	600 WAIALE RD (NEW JAILHOUSE)	Р	3	12	2,187,000	\$324,724
TOTAL	SOH DEPT OF F	PUBLIC SAFETY LARGE FACILITIES			1 Facility	2,187,000	\$324,724
8700-8946-001	SOH DOT AIR D	I KAHULUI AIRPORT RD (A/C NEW TERM BLD)	P3	3	12	9,499,200	\$1,339,542
TOTAL	SOH DOTRANS	PORTATION LARGE FACILITIES			1 Facility	9,499,200	\$1,339,542
8700-8296-001	UH-COMM COLI	L KAAHUMANU AV (MAUI COMM COLL)	P3	3	12	4,894,000	\$742,091
TOTAL	UH HAWAII CON	IMUNITY COLLEGES LARGE FACILITIES			1 Facility	4,894,000	\$742,091
TOTAL	MAUI SOH LARO	GE FACILITIES			6 Facilities	27,621,200	\$4,045,973
TOTAL	ALL MAUI SOH	FACILITIES				45,169,390	\$7,328,796

Table 4 - State of Hawaii Large Facility Electrical Consumption (cont'd)

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
9200-7384-001	SOH DOA	PUULUAHINE	P3	5	12	1,019,000	\$192,045
TOTAL	SOH DOAGRICU	JLTURE LARGE FACILITIES			1 Facility	1,019,000	\$192,045
9200-7387-001	SOH DHHL	KALAE WATER SYSTEM	P0	5	12	1,476,576	\$229,473
TOTAL	SOH DOHAWAII	AN HOME LANDS LARGE FACILITIES			1 Facility	1,476,576	\$229,473
TOTAL	LANAI SOH LAR	GE FACILITIES			2 Facilities	2,495,576	\$421,518
TOTAL	ALL LANAI & MC	DLOKAI SOH FACILITIES				7,423,940	\$1,577,052
96-62500-1-2	SOH DAGS	STATE OFFICE	Р	6	12	1,117,920	\$274,881
TOTAL	SOH DAGS LAR	GE FACILITIES			1 Facility	1,117,920	\$274,881
96-83000-1-3	SOH DOE	KAPAA HIGH SCH	Р	6	12	1,081,200	\$270,057
TOTAL	SOH DOEDUCA	TION KAUAI LARGE FACILITIES			1 Facility	1,081,200	\$1,081,200
96-67500-2-0	SOH DOT-AIR D	I LIHUE AIRPORT COMPLEX	Р	6	12	3,793,500	\$813,377
TOTAL	SOH DOTRANS	PORTATION LARGE FACILITIES			1 Facility	3,793,500	\$813,377
96-57600-2-0	UH COMM COLI	L GEN ACCT PUHI (KAUAI COMM COLL)	L	6	12	1,958,400	\$462,244
TOTAL	SOH HAWAII CO	DMMUNITY COLLEGES LARGE FACILITIES			1 Facility	1,958,400	\$462,244
TOTAL	KAUAI SOH LAR	RGE FACILITIES			4 Facilities	7,951,020	\$2,226,131
TOTAL	ALL KAUAI SOH	FACILITIES				17,932,869	\$4,317,680
GRAND TOTAL	STATE OF HAW	AII LARGE FACILITIES			108 Facilities	472,927,033	\$54,008,512
GRAND TOTAL	ALL STATE OF	HAWAII FACILITIES				668,449,658	\$83,647,032

LEGEND:		
ACCTNUM	UTILITY ACCOUNT NUMBER FOR FACILITY	
ANNUAL DATA	TARIFF CODE 1 THROUGH 5 CONSUMPTION TARIFF CODE 6 CONSUMPTION DATA FOR	N DATA FOR 1-JUL-01 THROUGH 30-JUN-02 1-JAN-01 THROUGH 31-DEC-01
LARGE FACILITY	ELECTRICAL CONSUMPTION EXCEEDS ON	E MILLION KWH PER YEAR
NBRMTH	NUMBER OF MONTHS METERED, IF NUMBE	R EXCEEDS 12 THEN THERE IS MORE THAN ONE METER.
RATESCH	UTILITY RATE SCHEDULE	
TARCDE	TARIFF CODE	1 = HAWAIIAN ELECTRIC COMPANY 2 = HAWAII ELECTRIC COMPANY 3, 4, & 5 = MAUI ELECTRIC COMPANY 6 = KAUAI ISLAND UTILITY COOPERATIVE

STATE OF HAWAII FINDINGS

The Department of Business, Economic Development & Tourism's Energy, Resources, and Technology Division (ERTD) is the catalyst and facilitator in providing technical assistance to promote energy performance contracting in State, County and quasipublic facilities. The Division has developed standard documents for use in the program and a *Guide to Energy Performance Contracting* for use by agencies participating in the program. The Division has a web page devoted to EPC, http://hawaii.gov/dbedt/ert/perf_con.html, and has offered educational workshops to introduce the concept to public agencies in the State.

Chapter 36-41 HRS entitled "Energy Retrofit and Performance Contracting for Public Facilities" provides that all agencies shall evaluate and identify for implementation energy efficiency retrofitting through performance contracting. The Statute further provides that agencies, that perform energy efficiency retrofitting, may continue to receive budget appropriations for energy expenditures that will not fall below the pre-retrofitting energy budget. Any agency may enter into a multi-year energy performance contract. Agencies are defined as any executive department, independent commission, board, bureau, office, or other establishment of the State or any county government, the Judiciary, the University of Hawaii, or any quasi-public institution that is supported in whole or in part by state or county funds.

Chapter 37D HRS entitled "Management of Financing Agreements" establishes a centralized master lease financing program that includes a line of credit financing option for among other things, energy retrofits.

Part II of Chapter 196 HRS entitled "Energy Efficiency in State Facilities" establishes goals and time frames for the implementation of energy efficiency improvements in State-Owned and Leased facilities based on 1990 consumption information.

RECOMMENDATIONS

These recommendations are focused on initial results of Phase I. Some of the recommendations will be applicable to facilities of all sizes.

 Survey state agencies with large facilities to determine: the square footage and occupancy of the individual facilities; the operating hours; whether the facility is owned or leased; and, whether the facility is scheduled for replacement or a major upgrade anytime in the next ten years.

- Select representative facilities for a walk-through energy inspection to determine the likelihood of developing a cost-effective project.
- Determine if the utility offers a DSM program for the audit and to offset some of the equipment costs.
- Conduct an energy audit of two or more facilities in cooperation with the local utility and recommend methods of implementing a conservation program.
- Determine the need for enhanced customer service and reliable technical assistance. These services can be provided by a consultant or by in-house staff.
- Require that any Energy Service Company (ESCO) selected to participate in the initial program have the ability to finance any projects identified. By definition, an ESCO agrees to finance, design, construct, maintain, operate or manage energy systems, and guarantee the result of the project.

Under Phase II the Contractor will undertake surveys of up to three state facilities and recommend energy conservation measures.

APPENDIX A – State of Hawaii Medium Sized Facilities

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
8820-3136-075	SOH DAGS	400 S KING ST (ARCHIVES)	J	1	24	589,440 \$	70,608
8820-6927-075		1809 BACHELOT ST (HOOPONO)	J	1	12	522,240 \$,
8823-1077-076		729 KAKOI ST (DAGS-CSD)	J	1	12	776,400 \$	
8824-2361-079	SOH DAGS	1177 ALAKEA ST (CAPITOL CENTER)	J5	1	48	909,280 \$	
9300-0640-002	SOH DAGS	94275 MOKUOLA ST (WAIPAHU CIVIC CTF	J	1	12	872,880 \$	106,793
TOTAL	SOH DAGS MED	DIUM SIZED FACILITIES			5 Facilities	3,670,240 \$	452,238
8820-0322-075	SOH DOA	1445 YOUNG ST	J	1	60	657,155 \$	83,764
TOTAL	SOH DOAGRICU	JLTURE MEDIUM SIZED FACILITIES			1 Facility	657,155 \$	83,764
9300-9574-003	SOH DBEDT	510 18TH AVE	J	1	60	292,704 \$	53,344
8801-3224-076	SOH DBEDT (HO	CDC2201 WAIMANO HOME RD	J	1	57	878,800 \$	111,366
8819-5057-078	SOH DBEDT (HO	CDC 860 HALEKAUWILA ST (COMMON AREAS)	J	1	12	734,800 \$	74,305
8820-1101-075	SOH DBEDT (HO	CDC 730 CAPT COOK AV	J	1	12	517,440 \$	
8821-6267-075	SOH DBEDT (HO	CDC 1001 N SCHOOL ST (HHA HALE PO'AI)	J	1	12	984,400 \$	104,998
8822-8174-075	SOH DBEDT (HO	CDC 1564 MEYERS ST	J3	1	12	450,400 \$	51,446
8824-2087-075	SOH DBEDT (HO	CDC 1220 AALA ST	J	1	12	677,100 \$	70,895
9100-0949-002	SOH DBEDT (HO	CD(1 IHOIHO PL (LAIOLA 402)	J	1	24	559,200 \$	61,332
		CDC 1065 KAWAIAHAO ST	J	1	24	755,760 \$	86,325
9300-4576-001	SOH DBEDT (HO	CDC 1002 N SCHOOL ST #A (HHA)	J	1	12	445,200 \$	52,467
9400-4660-002	SOH DBEDT (HO	CDC 94943 KAUOLU PL (HHA)	J	1	12	580,080 \$	62,166
TOTAL	SOH DBEDT ME	DIUM SIZED FACILITIES			11 Facilities	6,875,884 \$	783,703
8805-0960-075	SOH DOD	95026 KAMEHAMEHA HY	J	1	12	648,000 \$	74,970
8814-5831-075	SOH DOD	3711 DIAMOND HEAD RD	J	1	60	926,670 \$	112,638
9500-4908-001	SOH DOD	961210 WAIHONA ST	J	1	12	550,560 \$	64,853
TOTAL	SOH DODEFEN	SE MEDIUM SIZED FACILITIES			3 Facilities	2,125,230 \$	252,462
8800-6706-077	SOH DOE	1090 WAIMANO HOME RD (PEARL CITY)	J	1	12	426,240 \$	57,782
8800-8734-077	SOH DOE	1460 HOOLAULEA ST (HIGHLANDS INTER)	J	1	12	673,440 \$	
8801-4719-078	SOH DOE	94455 FARRINGTON HY (WAIPAHU INTER)	J	1	24	912,120 \$	116,106
8802-2581-077		94600 HONOWAI ST (HONOWAI)	J	1	12	369,440 \$	
8802-6027-077		94465 WAIPAHU ST (WAIPAHU)	J	1	24	382,412 \$	
8802-6234-077		941170 WAIPAHU ST (AUGUST AHRENS)	J	1	60	856,506 \$	
8802-6952-077		89195 FARRINGTON HY (NANAIKOPONO)	J	1	24	530,800 \$	
8803-1284-033		92675 ANIPEAHI ST (MAKAKILO)	J	1	24	392,240 \$	
8803-6359-077		911292 RENTON RD	J	1 1	12	400,560 \$	
8803-9111-077 8804-6595-077		85251 FARRINGTON HY (WAIANAE HIGH) 85626 FARRINGTON HY (WAIANAE INTER)	J J	1	36 12	319,888 \$ 786,960 \$	
8804-9734-077		1515 CALIFORNIA AV (LEILEHUA HIGH)	J3	1	24	910,240 \$	
8805-2477-077		275 ROSE ST (WAHIAWA INTER	J	1	12	677,760 \$	
8805-8476-077		95076 KIPAPA DR (KIPAPA)	J	1	12	414,240 \$	
8805-8698-079		95502 KIPAPA DR #C (MILILANE WAENA)	J	1	12	500,080 \$	
8805-8910-078		94270 KUAHELANI AVE (MILILANE UKA)	J	1	12	440,960 \$	
8807-3734-077		651 WILIKINA DR (WHEELER ELEM)	J	1	24	648,000 \$	
8808-1036-077		56490 KAMEHAMEHA HY (KAHUKU HIGH/I	J	1	12	781,440 \$	
8809-5090-078		45259 WAIKALUA RD (BENJAMIN PARKER)	J	1	12	429,600 \$	
8810-7431-077	SOH DOE	145 S KAINALU DR (KAILUA INTER)	J	1	24	508,760 \$	66,176
8813-2530-077	SOH DOE	4945 KILAUEA AV (WILSON)	J	1	12	543,680 \$	71,283
8813-5725-077	SOH DOE	631 18TH AVE (KAIMUKI INTER)	J	1	60	832,799 \$	108,494
8815-4918-078	SOH DOE	324 KAPAHULU AVE (JEFFERSON)	J	1	48	430,361 \$	57,833
8817-4232-077	SOH DOE	1633 S KING ST (WASHINGTON INTER)	J	1	24	643,233 \$	85,319
8818-0054-077		3201 MANOA RD (MANOA)	J	1	12	423,000 \$	
8818-9733-077		1150 PROSPECT ST STEVENSON)	J	1	12	579,840 \$	
8819-8620-005		620 PENSACOLA ST (MCKINLEY COMM)	J	1	24	490,880 \$	
8820-1314-077		49 FUNCHAL ST (KAWANANAKOA INTER)	J	1	47	467,932 \$	
8820-5546-077		1519 QUEEN EMMA ST (ROYAL ELEM)	J	1	12	542,160 \$,
8822-1175-077		1601 N SCHOOL ST (KAPALAMA)	J	1	12	398,080 \$	
8822-7214-077		1803 KAM IV RD (DOLE INTER)	J	1	12	556,560 \$	
8822-8058-077		1289 MAHIOLE ST (MOANALUA INTER)	J	1	12	803,120 \$	
8823-0071-078		1131 ALA LILIKOI ST (SALT LAKE)	J	1	24	436,960 \$,
8823-4771-077		3271 SALT LAKE BV (ALIAMANU INTER)	J	1	12	430,000 \$	
8823-4933-077		4361 SALT LAKE BV (RADFORD)	J	1	22	933,760 \$	
8823-8198-077		639 KALIHI ST (KALIHIKAI)	J	1	12	529,760 \$	
8823-8216-078		821 KALIHI ST (KALAKUA INTER)	J	1	12	637,280 \$	
8824-0008-003	SOU DOF	336 MOKAUEA ST (PUUHALE)	J	1	24	703,840 \$	88,492

State of Hawaii Medium Sized Facilities (cont'd)

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
8824-8809-077	SOH DOE	301 N SCHOOL ST (KAULUWELA)	J	1	24	608,160	\$ 80,461
8824-8924-077		99340 ULUNE ST (AIEA INTER)	J	1	12	582,080	
8825-5514-077	SOH DOE	98375 MOANALUA RD #M40 (WAIMALU)	Ĵ	1	12	394,400	
8825-5578-077		98940 MOANALUA RD (PEARL RIDGE)	J	1	12	516,880	
8825-5797-077	SOH DOE	981230 MOANALUA RD (SCOTT)	J	1	12	413,360	53,747
8825-7503-079	SOH DOE	981270 ULUNE ST (AIEA HIGH)	J	1	12	846,480	\$ 106,079
9300-6037-004	SOH DOE	951111 MAKAIKAI ST (MILILANI MAUKA)	J	1	12	915,600	\$ 121,730
9300-6344-004	SOH DOE	911159 KAMAAHA AV (KAPOLEI ELEM)	J	1	12	364,560	51,669
9700-2678-003	SOH DOE	911119 KAMAAHA LP (KAPOLEI ELEM)	J	1	12	513,360	63,216
9800-1286-003	SOH DOE	941035 KUKULA ST (WAIKELE ELEM)	J	1	12	751,920	\$ 97,373
9900-3612-002	SOH DOE	451 ULUMANU DR (KAILUA HIGH)	J	1	24	829,200	\$ 106,041
		1138 WAIMANO HOME RD (PEARL CITY BF	J	1	24	469,260	
9100-2028-002	SOH DOE (HSPLS)	3225 SALT LAKE BV (MOANALUA PUB LIBF	J	1	24	717,440	\$ 86,047
TOTAL	SOH DOEDUCATIO	ON MEDIUM SIZED FACILITIES			51 Facilities	29,667,631	\$ 3,920,196
8800-1921-075	SOH DOH	860 4TH ST (ADMIN SVC OFF)	J	1	12	451,920	58,023
8821-4273-075	SOH DOH	1700 LANAKÌLA AV	J	1	12	745,920	\$ 96,417
TOTAL	SOH DOHEALTH N	EDIUM SIZED FACILITIES			2 Facilities	1,197,840	\$ 154,440
9500-0930-002	DOHS	42477 KALANIANAOLE HWY (HAW YOUTH	J	1	12	955,440	\$ 104,700
TOTAL	DOHUMAN SVCS N	MEDIUM SIZED FACILITIES			1 Facility	955,440	\$ 104,700
8800-6354-075	SOH DOT-AIR DIV	300 RODGERS BV (COMM TERM MECH)	J	1	12	600,240	65,686
	SOH DOT-HAR DIV		J	1	36	480,175	63,035
8824-0630-075	SOH DOT-HAR DIV	′ 18 PIER #A	J	1	12	553,040	61,165
8824-1262-076	SOH DOT-HAR DIV	50 SAND ISLAND ACCESS RD (P11 GALL)	J4	1	12	615,300	\$ 83,928
9400-0614-002	SOH DOT-HAR DIV	103 ALA MOANA BLVD	J	1	12	761,440	\$ 89,535
8824-3621-076	SOH DOT-HWY DIV	99415 HALAWA HTS RD (HALAWA)	J	1	12	629,200	\$ 72,554
TOTAL	SOH DOTRANSPO	RTATION MEDIUM SIZED FACILITIES			6 Facilities	3,639,395	\$ 435,903
9100-2027-001	SOH OTHER	2350 DOLE ST (HAWAII PUBLIC TV)	J	1	12	998,800	\$ 112,715
TOTAL	SOH OTHER MEDI	UM SIZED FACILITIES			1 Facility	998,800	\$ 112,715
8816-2160-001	UH MANOA	1993 EAST WEST RD (FAC MGMT)	J	1	24	735.960	82.508
8819-2688-075	UH MANOA	41 AHUI ST (PBRC)	J3	1	12	939,280	96,375
8824-1203-075		1 SAND ISLAND RD (MARINE EXP CTR)	J	1	59	918,288	
9600-2539-003	UH MANOA	2019 S KING ST (FED CREDIT UNION)	J	1	24	422,320	50,946
9500-2253-002	UH COMM COLL	140 IAKO PL (HONOLULU)	J	1	12	439,440	
TOTAL	UNIVERSITY OF H	AWAII MEDIUM SIZED FACILITIES			5 Facilities	3,455,288	\$ 402,404
8824-4782-076	SOH JUDICIARY	465 S KING ST (KAPUAIWA BLDG)	J	1	12	541,040	\$ 62,385
TOTAL	SOH JUDICIARY M	EDIUM SIZED FACILITIES			1 Facility	9,449,216	\$ 1,092,623
TOTAL	SOH OAHU MEDIU	M SIZED FACILITIES			87 Facilities	58,238,031	\$ 7,280,030
TOTAL	ALL SOH OAHU F	ACILITIES				531,823,960	\$ 58,540,841

State of Hawaii Medium Sized Facilities (cont'd)

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST	
8602-4925-003	SH DAGS	KEALAKEKUA	J	2	12	317,000	\$ 62	,209
TOTAL	SH DAGS MEDIUM	1 SIZED FACILITIES			1 Facility	317,000	\$ 62	,209
9300-9495-003	SH DBEDT (NELH)	A KEAHOLE #COMPOUND EXPAN II	J	2	12	651,520	\$ 102	,116
9900-0408-002	SH DBEDT (NELH)	A KEAHOLE PT #BOOSTER PUMP	J	2	35	844,708	\$ 142	,384
TOTAL	SH DBEDT MEDIU	M SIZED FACILITIES			2 Facilities	1,496,228	\$ 244	,500
9800-3025-001	SH DOH	WAIANUENUE AV (HILO RES TRNG PROG	J	2	9	469,400	\$81	,369
TOTAL	SH DOHEALTH ME	EDIUM SIZED FACILITIES			1 Facility	469,400	\$81	,369
8602-9022-001	SH PSD	60 PUNAHELE ST (CORR DIV)	к	2	36	635,360	\$ 109	,434
9700-1436-001	SH PSD	VOLCANO HY #PANAEWA P21 (CORR DIV)	J	2	12	399,600	\$ 70	,037
TOTAL	SH DOPUBLIC SA	FETY CORRECTIONAL DIV MEDIUM SIZED F	ACILITIES		2 Facilities	1,034,960	\$ 179	,471
0000-1668-003	SH DOE/HELCO	KONAWAENA ELEM SCH	J	2	12	678,000	\$ 138	,435
0100-4407-002	SH DOE/HELCO	KONAWAENA HIGH SCHOOL &	J	2	12	272,960	52	,763
8600-2760-003	SH DOE/HELCO	745118 KEALAKAA ST (KEALAKEHE ELEM)	J	2	24	363,280	\$ 76	,521
8600-2771-003	SH DOE/HELCO	745062 ONIPAA ST (KEALAKEHA INTER)	J	2	12	428,200	\$ 86	,934
8601-6761-003	SH DOE/HELCO	PAHOA SCHOOL	J	2	60	677,399	\$ 138	,105
8602-4283-003	SH DOE/HELCO	KAU HIGH SCHOOL & PAHALA	J	2	12	390,320	\$ 73	,974
	SH DOE/HELCO	556 WAIANUENUE AV (HILO HIGH)	J	2	12	992,800	\$ 191	,826
8603-4640-003	SH DOE/HELCO	HONOKAA SCHOOL HIGH & ELEM	J	2	48	340,112	\$ 75	,599
8604-4112-003	SH DOE/HELCO	WAIAKEA ELEM SCH	J	2	24	243,120	\$51	,902
8604-4115-003	SH DOE/HELCO	WAIAKEA INTER SCH	J	2	12	381,800	\$ 78	,316
8604-5425-005	SH DOE/HELCO	76147 ROYAL POINCIANA DR (KAHAKAI EL	J	2	11	329,520	\$66	,669
	SH DOE/HELCO	WAIAKEA WAENA SCHOOL	J	2	36	236,806	\$51	,504
	SH DOE/HELCO	PANIOLO AV #WAIKOLOA ELM SCH	J	2	12	481,800	\$ 90	,576
9700-3149-003	SH DOE/HELCO	KEAAU PAHOA RD (KEAAU MID)	J	2	12	372,000	\$ 75	,279
9300-0056-001	SH DOE/HELCO	WAIANUENUE AV #ADDITION (HSPLS)	J	2	12	272,640	\$ 54	,226
TOTAL	SH DOEDUCATIO	N/HELCO MEDIUM SIZED FACILITIES			15 Facilities	6,460,757	\$ 1,302	,628
8604-3531-001	SH DOT AIR DIV	LYMAN FIELD BLDG #CRASH	J	2	33	245,150	\$ 52	,473
TOTAL	SH DOTRANSPOR	TATION MEDIUM SIZED FACILITIES			1 Facility	245,150	\$ 52	,473
0000-1352-003	SH UH-HAWAII	KOMOHANA ST (INST FOR ASTRONOMY)	J	2	12	803,400	\$ 137	,536
	SH UH-HAWAII	W KAWILI ST #THEATER BLDG	Ĵ	2	12	260,160		,986
8603-1035-001	SH UH-HAWAII	LANIKAULA ST	J	2	24	609,705		,416
8603-6715-001	SH UH-HAWAII	HALE POHAKU	J	2	12	367,200	5 61	,344
8603-7418-001	SH UH-HAWAII	MAUNA KEA MT SUMMIT (INST FOR)	Ĵ	2	24	983,560		,021
	SH UH-HAWAII	W KAWILI ST #AUTO SHOP COMPLEX	J	2	12	519,800		,839
8604-6377-001	SH UH-HAWAII	875 KOMOHANA ST #AG CENTER	J	2	12	403,400	\$71	,358
TOTAL	SH UH HAWAI'I ME	EDIUM SIZED FACILITIES			7 Facilities	3,947,225	\$ 716	,500
TOTAL	BIG ISLAND (HAW	AII) SOH MEDIUM SIZED FACILITIES			29 Facilities	13,970,720	\$ 2,639	,151
TOTAL	ALL BIG ISLAND (HAWAII) SOH FACILITIES				66,099,499	\$ 11,882	,662

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
8700-0205-002	SOH DAGS	54 HIGH ST	J	3	24	838,600 \$	143,439
TOTAL	SOH DAGS MEDIU	M SIZED FACILITIES			1 Facility	838,600 \$	143,439
8700-9191-001	SOH DOD	E2 PALAPALA DR	к	3	24	291,480 \$	52,100
TOTAL	SOH DODEFENSE	MEDIUM SIZED FACILITIES			1 Facility	291,480 \$	52,100
8700-0200-002	SOH DOE	HIGH ST (WAILUKU)	J	3	12	295,840 \$	54,675
8700-0354-002		KAAHUMANU AV (BALDWIN HIGH)	Ĵ	3	12	607,200 \$	110,909
8700-1569-002	SOH DOE	NOEAU ST (IAO INTER)	Ĵ	3	12	361,300 \$	65,620
8701-1518-002	SOH DOE	NEW LIHIKAI SCHOOL AV	Ĵ	3	12	339,360 \$	62,904
8701-3280-002		795 ONEHEE AV (MAUI WAENA INTER)	J	3	12	630,400 \$	115,857
8701-3875-002		HANA HY (HANA)	J	3	12	459,600 \$	81,891
8702-0766-002		120 MAKANI RD (KALAMA INTER)	J	3	12	683,700 \$	121,410
8702-9663-004		KUMUKAHI CLASS RM ST	J	3	12	281,185 \$	50,970
8702-9754-003		3400 LAHAINALUNA RD (LAHAINA INTER)	J	3	12	433,400 \$	77,060
8704-1580-004		LIPOA ST (LOKELANI INTER)	J	3	36	889,080 \$	162,698
9600-3860-003		180 KE ALI'I ALANUI RD (KAMALII ELEM)	P	3	12	822,000 \$	156,681
9600-4292-002		LAHAINALUNA RD #VAULTS/DORMS	J	3	36	419,360 \$	77,040
TOTAL		DN MEDIUM SIZED FACILITIES	0	Ū	12 Facilities	6,222,425 \$	1,137,715
8701-6439-001	SOH DOH	208 KULA SAN LP (A/C KULA SANITORIUM	J	3	12	819,360 \$	132,071
TOTAL	SOH DOHEALTH N	IEDIUM SIZED FACILITIES			1 Facility	819,360 \$	132,071
TOTAL	MAUI SOH MEDIUI	M SIZED FACILITIES			15 Facilities	8,171,865 \$	1,465,324
TOTAL	ALL MAUI SOH FA	CILITIES				45,169,390 \$	7,328,796
8701-5942-002	SOH DOE	LANAI AV (LANAI HIGH & ELEM)	J	4	24	450,720 \$	119,924
TOTAL	SOH DOEDUCATIO	ON MEDIUM SIZED FACILITIES			1 Facility	450,720 \$	119,924
9400-1887-001	SOH DOT-AIR DIV	KAUMALAPAU HY (LANAI AIRPORT)	J	4	12	523,200 \$	131,385
TOTAL	SOH DOTRANSPO	RTATION MEDIUM SIZED FACILITIES			1 Facility	523,200 \$	131,385
TOTAL	MOLOKAI SOH ME	DIUM SIZED FACILITIES			2 Facilities	973,920 \$	251,308
TOTAL	ALL MOLOKAI SO	H FACILITIES				1,385,134 \$	356,946
9200-9803-001	SOH DAGS	KAUNAKAKAI CIVIC CENTER	H1	5	24	414,240 \$	86,703
TOTAL	SOH DAGS MEDIU	M SIZED FACILITIES			1 Facility	414,240 \$	86,703
9200-7029-002	SOH DOE	LIBRARY (MOLOKAI HIGH)	P0	5	12	285,440 \$	62,472
9200-7041-003		INDUST ARTS BLDG (MOLOKAI HIGH)	P	5	12	277,320 \$	57,869
9200-8642-002		PRINCIPAL'S OFFICE (KAUNAKAKAI)	J	5	24	315,647 \$	75,523
TOTAL		DN MEDIUM SIZED FACILITIES	-	-	3 Facilities	878,407 \$	195,863
TOTAL	LANAI SOH MEDIU	IM SIZED FACILITIES			4 Facilities	1,292,647 \$	282,566
TOTAL	ALL LANAI SOH F	ACILITIES				6,038,806 \$	1,220,107

ACCOUNT NUMBER	AGENCY	FACILITY LOCATION	RATE SCHED.	TARIFF CODE	NUMBER READINGS	ANNUAL KWH	ANNUAL \$ COST
96-63100-1-4	SOH DAGS	HEALTH CENTER	Р	6	12	278,100	\$ 71,231
TOTAL	SOH DAGS MEDIU	M SIZED FACILITIES			1 Facility	278,100	\$ 71,231
4-26600-1-0 8-20200-3-4		KEKAHA SCH NEW BLDG WAIAMEA HS CAFETERIA	L L	6 6	48 72	207,294 254,644	51,285 62,677
20-12200-1-9		ELEELE SCH	J	6	36	243,924	59,322
23-22300-2-9	SOH DOE	4400 MAKA RD	J	6	47	255,491	\$ 62,236
96-19000-1-8	SOH DOE	WAIMEA CANYON SCH	Р	6	12	419,600	\$ 109,696
96-20000-1-5	SOH DOE	WAIMEA HIGH SCHOOL	Р	6	12	295,600	\$ 82,745
96-58350-1-3	SOH DOE	4431 NUHOU ST	Р	6	12	731,400	\$ 192,476
96-58500-1-1	SOH DOE	KAUAI HIGH SCH	Р	6	12	856,600	\$ 211,118
96-62100-1-6	SOH DOE	LIHUE-WILCOX SCH	Р	6	12	322,200	\$ 84,559
96-70300-2-5	SOH DOE	4380 HANAMAULU RD	Р	6	12	480,480	\$ 121,199
96-81200-1-5		4867 OLOHENA RD	Р	6	12	579,600	151,281
96-62000-2-5	SOH DOE (HSPLS)	KAUAI REGIONAL LIBRARY	Р	6	12	284,900	\$ 73,166
TOTAL	SOH DOEDUCATIO	ON KAUAI MEDIUM SIZED FACILITIES			12 Facilities	4,931,733	\$ 4,931,733
46-11525-1-5	SOH DOT-AIR DIV	NEW LIHUE CRASH FIRE	J	6	12	239,040	\$ 53,140
TOTAL	SOH DOTRANSPO	RTATION MEDIUM SIZED FACILITIES			1 Facility	239,040	\$ 53,140
96-71000-1-8	SOH PSD	FOR CENTER	Р	6	12	729,320	\$ 162,593
TOTAL	SOH DOPUBLIC SA	AFETY MEDIUM SIZED FACILITIES			1 Facility	729,320	\$ 162,593
TOTAL	KAUAI SOH MEDIL	IM SIZED FACILITIES			15 Facilities	6,178,193	\$ 3,383,710
TOTAL	ALL KAUAI SOH F	ACILITIES				17,932,869	\$ 4,317,680
GRAND TOTA	STATE OF HAWAI	I MEDIUM SIZED FACILITIES			152 Facilities	88,825,376	\$ 15,302,089
GRAND TOTA	L ALL STATE OF HA	WAII FACILITIES				668,449,658	\$ 83,647,032

State of Hawaii Medium Sized Facilities (cont'd)

LEGEND:

кwн

KILOWATT HOURS

MEDIUM SIZE

ELECTRICAL CONSUMPTION EXCEEDS \$50,000 PER YEAR BUT LESS THAN 1 MILLION KWH PER YEAR

TARIFF CODE

1 = HAWAIIAN ELECTRIC (HECO) OAHU

2 = HAWAII ELECTRIC (HELCO) BIG ISLAND 3 = MAUI ELECTRIC (MECO) MAUI

- 4 = MAUI ELECTRIC (MECO) MOLOKAI 5 = MAUI ELECTRIC (MECO) LANAI 6 = KAUAI ISLAND UTILITY COOPERATIVE (KIUC) KAUAI

APPENDIX B – DSM Equipment Installation History, All State Facilities

ACCOUNT NUMBER	AGENCY	CUSTOMER NAME	TARCDE- CO_CODE		KWH SAVED	REBATE PAID	INSTALLED DATE	EQUIPMENT
0004 4704 075	DAGO	2011 04 00	4.0		0.000	© 000	0/4 0/4 000	OUCTOM
8824-4781-075		SOH DAGS	1-P 1-P	CICR	2,830	\$223	8/18/1999	
8820-5318-076 8819-9076-075	DAGS	SOH DAGS SOH DAGS	1-P 1-P	CIEE	165,810 153,504	\$6,980 \$7,440	11/20/1996	
8820-5318-076		SOH DAGS	1-P	CIEE	167,535	\$23,220		SPACCOOL
8819-2839-079		SOH DAGS	1-P	CIEE	211	\$50	4/28/1998	
8824-4781-075		SOH DAGS	1-P	CIEE	69,248	\$5,152		SPACCOOL
8800-6839-077		SOH DAGS	1-P	CIEE	2,460	\$420		LIGHTING
8824-8619-075		SOH DAGS	1-P	CIEE	623	\$380		LIGHTING
8824-8557-076	DAGS	SOH DAGS	1-P	CIEE	820	\$500	8/18/1999	LIGHTING
8820-5318-076	DAGS	SOH DAGS	1-P	CIEE	2,427	\$440	5/19/2000	LIGHTING
8824-8557-076		SOH DAGS	1-P	CIEE	122,588	\$6,671		LIGHTING
8824-8557-076		SOH DAGS	1-P	CIEE	651,496	\$24,226		LIGHTING
8820-4007-075		SOH DAGS	1-P	CIEE	240,207	\$13,331		LIGHTING
8824-3048-076		SOH DAGS	1-P	CIEE	298,188	\$13,572		LIGHTING
8820-3136-075		SOH DAGS	1-P	CIEE	46,535	\$2,330		LIGHTING
9800-1977-002		SOH DAGS	1-P	CINC	148,920	\$21,200		SPACCOOL
9800-1977-002		SOH DAGS	1-P	CINC	307,559	\$17,619		LIGHTING
8819-4961-076		SOH FOREIGN TRADE	1-P	CIEE	54,183	\$3,528		LIGHTING
9600-5614-003		SOH CONVENTION CTR AUTHORITY	1-P	CIEE	511	\$50	2/22/1999	
9600-5614-003		SOH CONVENTION CTR AUTHORITY	1-P	CIEE	7,147	\$450	7/29/1999	
9600-5614-003	· · ·	SOH CONVENTION CTR AUTHORITY	1-P	CINC	743,385	\$124,998	10/15/1997	
		SOH CONVENTION CTR AUTHORITY SOH CONVENTION CTR AUTHORITY	1-P 1-P	CINC	1,156,720	\$125,000		SPACCOOL
9600-5614-003	· · ·	SOH CONVENTION CTR AUTHORITY	1-P 1-P	CINC CINC	554,012 17,850	\$1 \$1	10/15/1997 10/15/1997	
		SOH-HOUSING & COMMUNITY	1-F 1-P	RNC	4,172	\$1,500	11/10/1999	
		SOH-HOUSING & COMMUNITY	1-P	RNC	4,172	\$1,500	11/10/1999	
8807-4224-010		SOH-HOUSING & COMMUNITY	1-P	RWH	4,172	\$800	10/19/1998	
8807-4233-004		I SOH HHA HOOKIPA KAHALUU	1-P	RWH	4,172	\$800	10/22/1998	
9500-4908-001 9500-4908-001	DOD DOD	SOH DEPT OF DEFENSE SOH DEPT OF DEFENSE	1-P 1-P	CIEE CIEE	26,143 1,195	\$1,655 \$153	11/10/1997 11/10/1997	LIGHTING SPACCOOL
8813-7591-076	DOE	WAIALAE ELEMENTARY SCHOOL	1-P	CIEE	32,934	\$3,696	3/31/2000	LIGHTING
8821-0755-077	DOE	SOH DEPARTMENT OF EDUCATION	1-P	CIEE	12,715	\$1,063		LIGHTING
8814-6868-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	18,440	\$3,503		LIGHTING
8812-7930-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	27,221	\$5,166		LIGHTING
8806-3995-077	DOE	SOH DEPARTMENT OF EDUCATION	1-P	CIEE	23,544	\$1,344		LIGHTING
8825-7503-079		SOH DEPARTMENT OF EDUCATION	1-P 1-P	CIEE	58,762	\$3,355		LIGHTING
8811-5563-077 8817-7689-077		SOH DEPARTMENT OF EDUCATION SOH DEPARTMENT OF EDUCATION	1-P 1-P	CIEE	31,196 23,348	\$1,743 \$1,222		LIGHTING
8823-0071-078		SOH DEPARTMENT OF EDUCATION	1-F 1-P	CIEE	23,348 66,904	\$1,333 \$3,820		LIGHTING
8825-5514-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	18,639	\$3,820 \$1,400		LIGHTING
8811-3052-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	6,769	\$634		LIGHTING
8824-8183-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	35,905	\$2,050		LIGHTING
8816-7193-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	17,658	\$1,008		LIGHTING
8809-6631-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	10,021	\$1,680	10/16/2001	SPACCOOL
8801-5195-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	11,134	\$1,560		SPACCOOL
8803-9117-078	DOE	SOH DEPARTMENT OF EDUCATION	1-P	CIEE	27,835	\$3,600	7/20/2001	SPACCOOL
8809-6595-077	DOE	SOH DEPARTMENT OF EDUCATION	1-P	CIEE	2,354	\$247	9/30/2000	LIGHTING
8806-9207-077	DOE	SOH DEPARTMENT OF EDUCATION	1-P	CIEE	32,864	\$1,864	7/15/2001	LIGHTING
8809-2426-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	32,079	\$1,902		LIGHTING
8824-8183-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	29,822	\$1,787		LIGHTING
8822-6205-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	33,845	\$1,932		LIGHTING
8823-0071-078		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	13,244	\$958		LIGHTING
8822-5334-078		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	37,867	\$2,162		LIGHTING
8806-7625-077	DOE	SOH DEPARTMENT OF EDUCATION	1-P	CIEE	6,377	\$628		LIGHTING
8805-0060-077 8823-4771-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	8,829	\$969 \$740		LIGHTING
8823-4771-077 8824-0008-003	DOE	SOH DEPARTMENT OF EDUCATION SOH DEPARTMENT OF EDUCATION	1-P 1-P	CIEE	7,456 27,566	\$740 \$1,574		LIGHTING LIGHTING
8808-4514-077	DOE	SOH DEPARTMENT OF EDUCATION	1-P 1-P	CIEE	10,399	\$1,574 \$594	9/29/2001	
8809-5090-078		SOH DEPARTMENT OF EDUCATION	1-P 1-P	CIEE	4,120	ъря4 \$471		LIGHTING
8818-9733-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	12,851	\$762	11/17/2001	
8812-1152-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	5,003	\$488		LIGHTING
8800-4858-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	24,231	\$2,050	11/23/2002	
8808-0535-077		SOH DEPARTMENT OF EDUCATION	1-P	CIEE	7,063	\$404	10/30/2001	
0000-3209-004	DOE	SOH DEPARTMENT OF EDUCATION	1-P	CINC	58,858	\$3,599	12/30/2000	
8817-7696-001	DOE (HSPLS)		1-P	CIEE	511	\$50	8/4/2000	
8814-7287-075	DOE (HSPLS)	SOH HSPLS	1-P	CIEE	16,209	\$1,629	9/11/2000	SPACCOOL

ACCOUNT NUMBER	AGENCY	CUSTOMER NAME	TARCDE- CO_CODE		KWH SAVED	REBATE PAID	INSTALLED DATE	EQUIPMENT
8821-2602-075 8813-6841-075	DOH DOH	SOH MALUHIA HOSP SOH DEPT OF HEALTH	1-P 1-P	CIEE CIEE	182,602 343,398	\$8,276 \$18,427	11/20/1998 3/12/1999	LIGHTING LIGHTING
8803-9119-001	DOHS	SOH HCAP	1-P	CICR	2,106	\$668	4/29/1998	CUSTOM
8800-6364-076 8800-6352-076	DOT-AIR DIV DOT-AIR DIV	SOH DOT AIRPORTS DIVISION SOH DOT AIRPORTS DIVISION	1-P 1-P	CICR CIEE	281,921 311,834	\$18,331 \$18,390	4/19/2001 3/28/1997	CUSTOM LIGHTING
8800-6365-075	DOT-AIR DIV	SOH DOT AIRPORTS DIVISION	1-P	CIEE	53,196	\$3,220		LIGHTING
8800-6358-076	DOT-AIR DIV	SOH DOT AIRPORTS DIVISION	1-P	CIEE	765,243	\$35,244		LIGHTING
		SOH DOT AIRPORTS DIVISION	1-P	CIEE	228,532	\$8,104		LIGHTING
8800-6364-076	DOT-AIR DIV	SOH DOT AIRPORTS DIVISION	1-P	CIEE	105,028	\$3,629	4/21/1997	LIGHTING
8800-6360-075	DOT-AIR DIV	SOH DOT AIRPORTS DIVISION	1-P	CIEE	93,199	\$14,370		LIGHTING
8800-6353-076	DOT-AIR DIV	SOH DOT AIRPORTS DIVISION	1-P	CIEE	81,829	\$12,478	4/29/1997	LIGHTING
8819-4970-078	DOT-HAR DIV	SOH DOT HARBORS DIVISION	1-P	CIEE	87,296	\$8,850	5/23/2000	LIGHTING
8819-4971-001	DOT-HAR DIV	SOH DOT HARBORS DIVISION	1-P	CIEE	6,697	\$392	7/30/2000	LIGHTING
8816-2154-075	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CICR	21,896	\$1,645	3/19/1997	
8808-8598-075	UH MANOA		1-P	CICR	6,224	\$874		CUSTOM
8816-2154-075	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CICR	78,845	\$6,417	11/1/1998	
8816-2154-075 8816-2154-075	UH MANOA UH MANOA	UH FACILITIES MANAGEMENT UH FACILITIES MANAGEMENT	1-P 1-P	CIEE CIEE	43,560 11,904	\$6,930 \$672	10/17/1996 1/8/1999	LIGHTING
ACCOUNT NUMBER	AGENCY	CUSTOMER NAME	TARCDE- CO_CODE		KWH SAVED	REBATE PAID	INSTALLED DATE	EQUIPMENT
0040 0454 075			4 0		0.544	\$220	0/40/4000	
8816-2154-075	UH MANOA UH MANOA	UH FACILITIES MANAGEMENT UH FACILITIES MANAGEMENT	1-P 1-P	CIEE	3,514	\$338 \$575	9/10/1996	SPACCOOL
8816-2154-075	UH MANOA		1-P 1-P	CIEE CIEE	2,835 71,433	\$3,279		
8816-2154-075 8816-2154-076	UH MANOA	UH FACILITIES MANAGEMENT UH FACILITIES MANAGEMENT	1-P	CIEE	60,071	\$2,858	10/15/1998	LIGHTING
	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CIEE	4,503	¢2,656 \$585		SPACCOOL
8816-2154-076		UH FACILITIES MANAGEMENT	1-P	CIEE	55,925	\$3,408		LIGHTING
	UH MANOA	UH WAIKIKI AQUARIUM	1-P	CIEE	3,063	\$210	3/30/2000	
	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CIEE	308,962	\$14,753		LIGHTING
8816-2154-076		UH FACILITIES MANAGEMENT	1-P	CIEE	8,797	\$761		LIGHTING
9700-0159-002		UH FED CREDIT UNION	1-P	CINC	23.871	\$4,158		LIGHTING
	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	6,808	\$1,445		LIGHTING
	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	334,400	\$32,384		SPACCOOL
	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	11,970	\$1,890	10/1/1997	
8816-2154-076	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	108,244	\$10,786	10/28/1999	SPACCOOL
8808-8598-075	UH MANOA	UH HIMB	1-P	CINC	60,209	\$2,621	5/1/1999	LIGHTING
8816-2154-076	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	218,862	\$10,535	10/28/1999	LIGHTING
8816-2154-076	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	465,438	\$77,660	1/5/2001	SPACCOOL
8816-2154-076	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	220,209	\$10,916	1/5/2001	LIGHTING
8816-2154-076	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	9,189	\$760	10/28/1999	MOTOR
8816-2154-076	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	57,630	\$3,948	8/1/2000	SPACCOOL
	UH MANOA	UH FACILITIES MANAGEMENT	1-P	CINC	35,729	\$1,856		LIGHTING
8819-3080-075	UH MANOA	UH HIMB KEWALO DOCK	1-P	RWH	278	\$40	6/16/1999	WATERHT
8823-9022-001		LUH HONOLULU COMMUNITY COLLEG		CIEE	10,358	\$821		LIGHTING
		LUH KAP COMM COLLEGE BUSINESS	1-P	CIEE	856,448	\$46,319		LIGHTING
8801-5005-075		LLEEWARD COMMUNITY COLLEGE	1-P	CIEE	6,387	\$574	10/15/1999	
8801-5005-075		LLEEWARD COMMUNITY COLLEGE	1-P	CIEE	8,105	\$1,215		SPACCOOL
9500-5803-001		LSOH WINDWARD COMMUNITY COLLE		CIEE	143,740	\$10,115		LIGHTING
8823-6252-075		LUH HONOLULU COMMUNITY COLLEG		CIEE	336,640	\$37,280		SPACCOOL
8823-6252-075		LUH HONOLULU COMMUNITY COLLEG		CIEE	1,076,832	\$60,695		LIGHTING
8801-5005-075	UH-COMM CO	LLEEWARD COMMUNITY COLLEGE	1-P	CIEE	696,349	\$43,609	3/23/2001	LIGHTING
8800-1926-075	JUDICIARY	SOH JUDICIARY DEPT	1-P	CIEE	18,696	\$1,322	8/7/1997	LIGHTING
TOTAL	HECO ANNUA	L KWH SAVINGS AND COST INCENTIV	ES FOR ST	ATE AG	13,684,173	\$1,020,588		

ACCOUNT NUMBER	AGENCY	CUSTOMER NAME	TARCDE- CO_CODE		KWH SAVED	REBATE PAID	INSTALLED DATE	EQUIPMENT
8603-9132-001	DAGS	SH DAGS	2-H	CIEE	26,720	\$1,708	5/5/1996	LIGHTING
8603-9132-001	DAGS	SH DAGS	2-H	CIEE	33,901	\$1,656		LIGHTING
8603-9132-001	DAGS	SH DAGS	2-H	CIEE	16,336	\$960	12/6/2000	
8603-9132-001	DAGS	SH DAGS	2-H	CIEE	170,849	\$9,921		SPACCOOL
8603-9132-001		SH DAGS	2-H	CIEE	5,242	\$179		LIGHTING
8603-0954-001	DOA	SH DEPT OF AG	2-H	CIEE	22,545	\$1,165		LIGHTING
9201-0365-001	DBEDT (NELH)		2-H	CIEE	12,396	\$720	1/25/2001	
9900-0408-002	DBEDT (NELH)	[®] NELHA	2-H	CINC	15,106	\$840	11/30/2001	MOTOR
0100-4719-001	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CICR	3,167	\$448	11/15/2001	CUSTOM
8603-4139-003	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CIEE	6,144	\$672	8/31/2001	LIGHTING
0100-4719-001	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CIEE	614	\$67	11/15/2001	LIGHTING
9900-0545-002	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	182,844	\$15,840		SPACCOOL
9900-0545-002	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	97,115	\$3,115		LIGHTING
9900-0545-002	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	29,749	\$1,128		LIGHTING
	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	6,704	\$398		LIGHTING
9900-0545-002		SH DEPT OF EDUCATION/HELCO	2-H	CINC	64,023	\$2,629		LIGHTING
	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	7,374	\$301		LIGHTING
	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	22,458	\$1,051		LIGHTING
	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	2,682	\$123		LIGHTING
9900-0545-002	DOE	SH DEPT OF EDUCATION/HELCO	2-H	CINC	52,884	\$7,920	3/15/2001	
9300-0056-001		SH HAW PUB LIBRARY	2-H	CINC	9,006	\$1,413		SPACCOOL
8602-6860-001	DHHL	SH HAWIIAN HOME LANDS	2-H	CIEE	5,940	\$526	7/1/2001	LIGHTING
8602-4929-001	DOH	SH KONA HOSPITAL	2-H	CICR	17,073	\$1,107	4/30/2001	CUSTOM
8603-4191-001	DOH	SH DEPT OF HEALTH	2-H	CIEE	41,440	\$1,962		LIGHTING
9200-2983-001	DOH	SH DEPT OF HEALTH	2-H	CIEE	19,880	\$918		LIGHTING
8603-4192-002	DOH	SH DEPT OF HEALTH	2-H	CIEE	352,660	\$14,316		LIGHTING
8602-4929-001	DOH	SH KONA HOSPITAL	2-H	CIEE	205,406	\$11,799		LIGHTING
9400-6479-001	DOH	HALE HOOLA HAMAKUA	2-H	CIEE	124,360	\$5,827		LIGHTING
8602-3898-001		SH KAU HOSPITAL	2-H	CIEE	54,740	\$2,919		LIGHTING
8600-8104-001	DOH	SH KOHALA HOSPITAL	2-H	CIEE	28,449	\$1.019		LIGHTING
8602-4929-001	DOH	SH KONA HOSPITAL	2-H	CINC	20,781	\$1,771		LIGHTING
8602-4929-001	DOH	SH KONA HOSPITAL	2-H	CINC	27,007	\$771		LIGHTING
9800-3025-001	DOH	HILO RESIDENCY TRAINING PROGRA		CINC	25,448	\$751	11/30/1999	
8603-3262-006	DOLIR	SOH DEPT OF LABOR	2-H	CICR	1,076	\$82		CUSTOM
8603-3250-011	DOLIR	SOH DEPT OF LABOR	2-H	CICR	146	\$11	1/25/2001	CUSTOM
9700-3963-001	DLNR	SH DLNR FORESTRY DIVISION	2-H	CINC	15,536	\$813	10/6/1997	LIGHTING
8605-5182-002	PSD	SH CORRECTIONAL DIV	2-H	CICR	188.855	\$21,400	11/1/2001	CUSTOM
9700-1436-001	PSD	SH CORRECTIONAL DIV	2-H	CINC	11,347	\$746	6/13/1997	LIGHTING
8600-1960-001		SH DOT AIRPORTS DIVISION	2-H	CIEE	24,321	\$1,121		LIGHTING
8600-1960-001	DOT-AIR DIV	SH DOT AIRPORTS DIVISION	2-H	CIEE	37,909	\$1,327	1/1/1997	LIGHTING
8600-1960-001	DOT-AIR DIV	SH DOT AIRPORTS DIVISION	2-H	CIEE	5,566	\$324	1/1/1997	LIGHTING
8600-1960-001	DOT-AIR DIV	SH DOT AIRPORTS DIVISION	2-H	CIEE	9,979	\$545	1/30/2000	LIGHTING
8600-1960-001	DOT-AIR DIV	SH DOT AIRPORTS DIVISION	2-H	CIEE	10,521	\$582		LIGHTING
8604-3528-001	DOT-AIR DIV	SH DOT AIRPORTS DIVISION	2-H	CIEE	185,372	\$10,528	6/30/1997	LIGHTING
8602-0061-001	DOT-AIR DIV	SH DOT AIRPORTS DIVISION	2-H	CIEE	3,742	\$230		LIGHTING
8603-9904-001		SH DOT HARBORS DIVISION	2-H	CIEE	5,845	\$350		LIGHTING
		SH DOT HIGHWAYS DIVISION	2-H	CICR	3,854	\$303		CUSTOM
		SH DOT HIGHWAYS DIVISION	2-H	CICR	2,313	\$182	10/1/1999	
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ACCOUNT NUMBER	AGENCY	CUSTOMER NAME	TARCDE- CO_CODE		KWH SAVED	REBATE PAID	INSTALLED DATE	EQUIPMENT
8605-0134-002	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	3.469	\$272	10/30/1999	CUSTOM
8604-2613-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	3,469	\$272	10/30/1999	CUSTOM
8604-4117-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	3,469	\$272	10/30/1999	CUSTOM
9700-4542-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	5,872	\$454	10/30/1999	CUSTOM
9300-7730-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	4,625	\$363	10/30/1999	CUSTOM
8601-8331-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	4,625	\$363	10/30/1999	CUSTOM
8605-3391-002	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	5,396	\$424	10/30/1999	CUSTOM
8604-3712-003	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	5,396	\$424	10/30/1999	CUSTOM
8600-2729-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	6,167	\$484	10/30/1999	CUSTOM
8603-2717-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	6,167	\$484	10/30/1999	CUSTOM
9300-2168-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	6,167	\$484	10/30/1999	CUSTOM
8604-9131-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	6,167	\$484	10/30/1999	CUSTOM
9900-1775-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	6,552	\$515	10/30/1999	CUSTOM
8603-9591-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	6,938	\$545	10/30/1999	CUSTOM
8605-5071-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	3,854	\$303	10/30/1999	CUSTOM
8604-4111-002	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	3,084	\$242	10/1/1999	CUSTOM
8604-4109-002	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CICR	3,854	\$303	10/30/1999	CUSTOM
0100-3292-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CIEE	57,180	\$5,200	2/28/2002	SPACCOOL
0100-3292-001	DOT-HWY DIV	SH DOT HIGHWAYS DIVISION	2-H	CIEE	12,593	\$725	2/28/2002	LIGHTING
8603-6715-001	UH-HAWAII	MAUNA KEA SUPPORT SERVICES	2-H	CICR	16,286	\$1,170	11/15/2000	CUSTOM
8603-0642-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	38,972	\$2,994	4/19/1997	LIGHTING
8604-2846-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	28,786	\$2,069	4/19/1997	LIGHTING
8604-2845-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	69,993	\$5,474	4/19/1997	LIGHTING
8603-1092-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	1,936	\$85	4/26/1997	LIGHTING
8603-1093-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	1,210	\$53	5/3/1997	LIGHTING
8603-1094-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	1,936	\$85	4/26/1997	LIGHTING
8603-1095-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	1,936	\$85	4/26/1997	LIGHTING
8603-1096-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	3,872	\$170	5/3/1997	LIGHTING
8603-1097-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	3,872	\$170	5/3/1997	LIGHTING
8603-1037-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	9,317	\$529	5/10/1997	LIGHTING
8603-1034-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	12,826	\$453	5/31/1997	LIGHTING
8603-1035-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	50,648	\$2,236	5/31/1997	LIGHTING
9600-2104-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	103,218	\$8,516	3/29/1997	LIGHTING
8603-1098-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	1,936	\$85	5/3/1997	LIGHTING
8604-6377-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	87,133	\$7,562	2/15/1997	LIGHTING
9600-2104-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	37,630	\$2,803	3/15/1997	LIGHTING
9600-2104-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	18,513	\$1,714	3/15/1997	LIGHTING
9600-2104-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	6,403	\$421	12/31/1999	SPACCOOL
8603-6715-001	UH-HAWAII	MAUNA KEA SUPPORT SERVICES	2-H	CIEE	54,390	\$1,400	11/15/2000	LIGHTING
9900-2035-002	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	12,029	\$1,047	12/5/2000	LIGHTING
9600-2104-001	UH-HAWAII	SH UH HILO BUS OFF	2-H	CIEE	3,686	\$202	12/11/2001	LIGHTING
0000-1352-003	UH-HAWAII	INSTITUTE FOR ASTRONOMY	2-H	CINC	54,999	\$1,949	12/22/1999	LIGHTING
0000-1352-003	UH-HAWAII	INSTITUTE FOR ASTRONOMY	2-H	CINC	94,469	\$7,068	10/21/1999	SPACCOOL
9900-2035-002	UH-HAWAII	SH UH HILO BUS OFF	2-H	CINC	11,145	\$424	8/15/2001	LIGHTING
9900-2035-002	UH-HAWAII	SH UH HILO BUS OFF	2-H	CINC	754	\$29	9/30/2000	LIGHTING
TOTAL	HELCO ANNU	AL KWH SAVINGS AND INCENTIVES I	FOR STATE A	GENCI	3,100,364	\$195,890		

ACCOUNT NUMBER	AGENCY	CUSTOMER NAME	TARCDE- CO_CODE	DSM CODE	KWH SAVED	REBATE PAID	INSTALLED DATE	EQUIPMENT
8700-0354-002	DOE	SOH DEPARTMENT OF EDUCATION	3-M	CIEE	59,085	\$4,544	8/27/2001	LIGHTING
8700-0199-001	DOE (HSPLS)	SOH HSPLS	3-M	CIEE	5,200	\$280	10/21/1997	LIGHTING
9200-8642-002	DOE	SOH DEPARTMENT OF EDUCATION	5-M	CIEE	6,042	\$655	6/7/2001	LIGHTING
9200-7029-002	DOE	SOH DEPARTMENT OF EDUCATION	5-M	CIEE	12,031	\$2,008	6/26/2001	LIGHTING
9700-1019-003	DOH	MAUI MEMORIAL MEDICAL CENTER	3-M	CIEE	257,600	\$19,240	8/1/1997	SPACCOOL
9700-1019-003	DOH	MAUI MEMORIAL MEDICAL CENTER	3-M	CIEE	758	\$165	6/1/1998	MOTOR
8701-6439-001	DOH	SOH KULA HOSPITAL	3-M	CIEE	63,452	\$2,842	12/31/1998	LIGHTING
9700-1019-003	DOH	MAUI MEMORIAL MEDICAL CENTER	3-M	CIEE	397,400	\$19,240	6/5/2000	SPACCOOL
8701-6433-007	DOH	SOH KULA HOSPITAL	3-M	RWH	772	\$50	1/14/1999	WATERHT
8703-4165-001	DOH	SOH DEPT OF HEALTH	4-M	CIEE	19,153	\$936	12/5/1998	LIGHTING
8700-8946-001	DOT-AIR DIV	SOH DOT AIRPORTS DIV	3-M	CIEE	1,314,820	\$34,238	3/3/1997	LIGHTING
8700-8946-001	DOT-AIR DIV	SOH DOT AIRPORTS DIV	3-M	CIEE	224,120	\$5,838	8/7/1997	LIGHTING
8700-8946-001	DOT-AIR DIV	SOH DOT AIRPORTS DIV	3-M	CIEE	16,437	\$956	2/12/1999	LIGHTING
9700-2474-001	DOT-HAR DIV	SOH DOT HARBORS DIVISION	3-M	CIEE	22,255	\$6,600	4/1/1998	LIGHTING
9400-0596-002	DOT-HAR DIV	SOH DOT HARBORS DIVISION	3-M	CINC	4,267	\$1,035	9/1/1998	LIGHTING
8700-8295-001	UH-COMM CO	LMAUI COMMUNITY COLLEGE	3-M	CICR	12,785	\$1,913	6/15/2001	CUSTOM
8700-8296-001	UH-COMM CO	LMAUI COMMUNITY COLLEGE	3-M	CIEE	41,125	\$6,050	3/13/1997	SPACCOOL
8700-8296-001	UH-COMM CO	LMAUI COMMUNITY COLLEGE	3-M	CIEE	9,070	\$1,800	12/28/1998	LIGHTING
8700-8296-001	UH-COMM CO	LMAUI COMMUNITY COLLEGE	3-M	CINC	94,472	\$4,333	11/21/1998	LIGHTING
8700-8296-001	UH-COMM CO	LMAUI COMMUNITY COLLEGE	3-M	CINC	84,098	\$3,453	6/10/2001	LIGHTING
8700-8296-001	UH-COMM CO	LMAUI COMMUNITY COLLEGE	3-M	CINC	111,381	\$8,802	7/1/2001	CUSTOM
9200-6970-001	UH-COMM CO	LMAUI COMMUNITY COLLEGE	5-M	CINC	23,696	\$986	6/16/1999	LIGHTING
TOTAL	MECO ANNUA	L KWH SAVINGS AND INCENTIVES FO	OR STATE A	GENCIE	2,780,019	\$125,964		

GRAND TOTAL UTILITY ANNUAL KWH SAVINGS AND INCENTIVES FOR STATE AGENC 19,564,556 \$1,342,442

LEGEND:

TARCDE	TARIFF CODE 1 = HAWAIIAN ELECTRIC (HECO) OAHU 2 = HAWAII ELECTRIC (HELCO) BIG ISLAND 3 = MAUI ELECTRIC (MECO) MAUI 4 = MAUI ELECTRIC (MECO) MOLOKAI 5 = MAUI ELECTRIC (MECO) LANAI
CO_CODE	COMPANY COLP = HECO, H = HELCO, M = MECO

DSM DEMAND-SIDE MANAGEMENT PROGRAM