

FY 2001 ENERGY MANAGEMENT DATA REPORT

Agency: U. S. Department of Defense

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PART 1: ENERGY CONSUMPTION AND COST DATA

1-1. Standard Buildings/Facilities

	Consumption Units	FY 2001		FY 2002		FY 2003	
		Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)
Electricity	MWH	25,043,787.5	1,492,886.8	23,048,915.4	1,362,140.7	22,628,404.2	1,322,104.9
Fuel Oil	Thou. Gal.	240,454.0	204,629.7	219,723.5	185,994.3	215,668.8	178,152.0
Natural Gas	Thou. Cu. Ft.	67,252,757.5	504,578.8	69,298,353.3	483,925.6	67,976,149.8	427,004.8
LPG/Propane	Thou. Gal.	15,589.6	16,093.7	15,598.0	14,473.3	15,296.6	14,813.3
Coal	S. Ton	497,894.4	26,758.9	368,889.9	20,758.9	361,744.8	20,493.1
Purch. Steam	BBtu	7,951.2	104,801.0	9,752.4	115,261.1	9,560.3	106,518.0
Other	BBtu	1,712.0	11,880.6	862.5	4,350.2	845.2	4,264.0
Total Costs			2,361,629.5		2,186,904.0		2,073,350.1

Standard Buildings/Facilities (Thous. Gross Square Feet)	2,013,906.6	1,995,500.5	1,984,911.5
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1-2. Industrial, Laboratory, Research, and Other Energy-intensive Facilities

	Consumption Units	FY 2001		FY 2002		FY 2003	
		Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)
Electricity	MWH	3,218,821.7	171,404.3	2,822,219.9	151,532.2	2,781,826.4	146,509.4
Fuel Oil	Thou. Gal.	31,592.3	20,073.9	33,050.9	20,105.3	32,541.9	17,971.8
Natural Gas	Thou. Cu. Ft.	7,936,385.2	55,027.8	7,056,167.3	48,509.0	6,948,521.5	44,477.7
LPG/Propane	Thou. Gal.	793.0	725.9	652.2	546.2	638.9	551.6
Coal	S. Ton	161,808.1	7,244.0	173,496.7	7,637.5	151,228.2	6,638.8
Purch. Steam	BBtu	1,049.9	5,991.2	938.0	5,375.0	922.1	5,030.4
Other	BBtu	-	132.6	1.0	106.9	0.9	105.8
Total Costs			260,599.6		233,812.1		221,285.6

Energy-Intensive Facilities (Thous. Gross Square Feet)	168,582.7	167,592.5	167,642.7
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1-3. Exempt Facilities

	Consumption Units	FY 2001		FY 2002		FY 2003	
		Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)
Electricity	MWH	1,700,984.0	144,609.4	1,675,469.2	138,167.1	1,650,337.2	130,650.8
Fuel Oil	Thou. Gal.	18,302.4	13,880.1	18,027.8	12,441.4	17,757.4	10,784.2
Natural Gas	Thou. Cu. Ft.	420,247.3	2,753.0	413,943.6	2,467.7	407,734.5	2,017.4
LPG/Propane	Thou. Gal.	-	-	-	-	-	-
coal	S. Ton	-	-	-	-	-	-
Purch. Steam	BBtu	507.2	6,978.0	499.5	6,254.7	492.1	5,113.5
Other	BBtu	587.2	6,805.3	578.4	6,100.0	569.7	4,987.0
Total Costs			175,025.8		165,430.8		153,553.0

Exempt Facilities (Thous. Gross Square Feet)	-	-	-
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1-4. Tactical Vehicles and Other Equipment

	Consumption Units	FY 2001		FY 2002		FY 2003	
		Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)
Auto Gasoline	(Thou. Gal.)	36,696.8	40,574.9	43,925.4	47,735.9	42,443.6	46,491.4
Diesel-Distillate	(Thou. Gal.)	751,467.6	736,856.1	807,897.5	777,784.0	805,098.3	709,372.8
LPG/Propane	(Thou. Gal.)	222.2	171.4	243.2	189.0	238.3	186.7
Aviation Gasoline	(Thou. Gal.)	43.0	223.9	49.4	261.5	49.2	148.4
Jet Fuel	(Thou. Gal.)	3,136,260.0	3,218,849.6	2,583,120.1	2,626,115.0	2,635,148.1	2,404,412.6
Navy Special	(Thou. Gal.)	47,000.0	30,576.0	43,300.0	30,311.0	46,000.0	28,644.0
Other	(Billion Btu)	1,894.0	1,732.4	463.1	333.4	453.8	340.3
Total Costs			4,028,984.3		3,482,729.8		3,189,596.2

1-5. WATER CONSUMPTION AND COST DATA

	Consumption Units	FY 2001		FY 2002		FY 2003	
		Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)
Water	Million Gal.	206,840.8	330,903.1	206,810.2	421,005.9	205,129.3	419,513.9

1-6. RENEWABLE GREEN ENERGY PURCHASES

	Consumption Units	FY 2001		FY 2002		FY 2003	
		Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)
Electricity from Renewables	MWH	238,530.9	9,285.4	263,683.6	11,213.3	299,929.6	14,063.3
Natural Gas from Landfill/Biomass	Thou. cubic ft.	-	-	-	-	-	-
Renewable Thermal Energy	MMBtu	1,262,665.0	12,700.7	1,262,801.0	12,702.7	1,263,005.0	12,705.7
Average annual savings/costs anticipated from expenditures (show costs as negative)			(639.1)		2,961.0		8,361.0

PART 2: ENERGY EFFICIENCY IMPROVEMENTS

2-1. DIRECT AGENCY OBLIGATIONS

	FY 2001		FY 2002		FY 2003	
	Annual Savings		Annual Savings		Annual Savings	
	(MMBTU)	(Thou. \$)	(MMBTU)	(Thou. \$)	(MMBTU)	(Thou. \$)
Average annual savings anticipated from obligations	405,130.0	7,123.7	437,310.0	6,695.0	630,386.0	9,463.0
Direct obligations for facility energy efficiency improvements, including facility surveys/audits		57,113.0		43,732.0		37,008.0

2-2. ENERGY SAVINGS PERFORMANCE CONTRACTS (ESPC)

	FY 2001		FY 2002		FY 2003	
	Annual savings (MMBTU)	(number/Thou. \$)	Annual savings (MMBTU)	(number/Thou. \$)	Annual savings (MMBTU)	(number/Thou. \$)
Number of ESP contracts awarded in fiscal year & annual energy (MMBTU) savings	943,664.0	30	1,537,162.0	49	3,287,840.8	49
Total value of ESP contracts awarded in fiscal year		318,365.0		412,409.0		752,807.2
Estimated life-cycle cost savings of ESPCs awarded in fiscal year (Contractor share)		307,001.6		290,319.0		645,117.2
Estimated life-cycle cost savings of ESPCs awarded in fiscal year (Government share)		197,555.7		85,660.0		39,563.0
Total <i>annual</i> payments made to all ESP contractors		49,623.0		69,656.0		114,523.0

2-3. UTILITY ENERGY SERVICES CONTRACTS (UESC)

	FY 2001		FY 2002		FY 2003	
	Annual savings (MMBTU)	(number/Thou. \$)	Annual savings (MMBTU)	(number/Thou. \$)	Annual savings (MMBTU)	(number/Thou. \$)
Number of utility energy services contracts awarded in fiscal year	1,161,546.0	44	842,245.4	38	297,516.5	18
Total value of utility energy services contracts awarded in fiscal year		140,893.0		140,052.0		49,809.0
Estimated life-cycle cost savings of UESCs awarded in fiscal year (Contractor share)		123,689.0		119,802.0		43,805.0
Estimated life-cycle cost savings of UESCs awarded in fiscal year (Government share)		100,823.0		98,009.4		47,005.0
Total <i>annual</i> payments made to all UES contractors		23,727.1		30,848.0		39,644.0

2-4. UTILITY INCENTIVES (REBATES)

	FY 2001		FY 2002		FY 2003	
	Annual savings (MMBTU)	(number/Thou. \$)	Annual savings (MMBTU)	(number/Thou. \$)	Annual savings (MMBTU)	(number/Thou. \$)
Incentives received and estimated energy savings	73,620.6	4,559.0	31,630.0	2,145.5	30,000.0	2,000.0
Funds spent in order to receive incentives		4,283.0		2,015.0		2,000.0

2-5. TRAINING

	FY 2001		FY 2002		FY 2003	
	(number)	(Thou. \$)	(number)	Thous. \$	(number)	Thous. \$
Number of personnel trained/Expenditure	2,676	1,600.0	1,869	1,496.0	1,854	1,488.0

2-6. IDENTIFICATION OF FUNDS

	Amount (thou. \$)	Account	Program	Line Item	Page in Budget Request
ESPC or utility service contracts negotiation/management	2,858.0	O&M	Navy FEMP / Utilities		
Direct spending on efficiency	6,400.0	O&M	Navy FEMP		
	3040	O&M			
	27,100.0	MILCON	ECIP		
	8,960.0	O&M	CA Demand Reduction Program		
Direct spending on training	1,305.0	O&M			
Energy Star building design/ construction incremental costs	3,500.0	MILCON	Sustainable Design		
"Green Power" purchases	50.0	O&M	Utilities		
On-site generation and renewable energy	-				