

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Hawaii		
NERC Region(s).....		--
Primary Energy Source		Petroleum
Net Summer Capability (megawatts).....	2,267	47
Electric Utilities	1,622	41
Independent Power Producers & Combined Heat and Power	645	42
Net Generation (megawatthours).....	11,663,069	44
Electric Utilities	7,513,051	40
Independent Power Producers & Combined Heat and Power	4,150,018	33
Emissions (thousand short tons)		
Sulfur Dioxide.....	29	41
Nitrogen Oxide.....	15	41
Carbon Dioxide.....	9,028	41
Sulfur Dioxide/sq. mile.....	4	22
Nitrogen Oxide/sq. mile.....	2	21
Carbon Dioxide/sq. mile.....	1,406	19
Utility and ESP Retail Electricity Sales (megawatthours).....	9,891,638	46
Utility Retail Electricity Sales (megawatthours)	9,891,638	45
Direct Use (megawatthours).....	521,088	28
Average Retail Price (cents/kWh).....	13.39	1

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Hawaii			
1. Kahe	Petroleum	Hawaiian Electric Co Inc	582
2. Waiau	Petroleum	Hawaiian Electric Co Inc	457
3. Maalaea	Petroleum	Maui Electric Co Ltd	190
4. AES Hawaii	Petroleum, Other, Coal	AES Hawaii Inc	180
5. Kalaeola Cogen Plant.....	Petroleum	Kalaeola Partners LP	180
6. Honolulu.....	Petroleum	Hawaiian Electric Co Inc	100
7. Port Allen.....	Petroleum	Citizens Utilities Co	96
8. Hamakua Energy Plant.....	Other	Hamakua Energy Partners LP	61
9. H Power	Other	DFO Partnership	60
10. HC & S - Puunene Fact	Petroleum, Hydro, Coal	Hawaiian Com & Sugar Co Ltd	46

See footnotes at end of tables.

Table 3. Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Hawaii					
A. Hawaiian Electric Company, Inc	7,390,367	2,002,655	2,309,597	3,034,903	43,212
B. Maui Electric Company, Ltd.....	1,158,717	398,871	372,076	382,093	5,677
C. Hawaii Electric Light Co, Inc	995,198	377,022	391,901	222,161	4,114
D. Citizens Communications Co.....	347,356	119,832	94,359	131,244	1,921
Total	9,891,638	2,898,380	3,167,933	3,770,401	54,924
Percentage of Utility Sales.....	100	100	100	100	100

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Hawaii							
Petroleum	1,598	1,574	1,618	0.1	67.4	67.3	71.4
Natural Gas	0	18	0	NM	.0	.8	.0
Hydroelectric	3	3	2	-7.3	.1	.1	.1
Other Renewables	0	0	2	NM	.0	.0	.1
Total Electric Utilities	1,602	1,595	1,622	.1	67.5	68.3	71.6
Coal	213	213	202	-6	9.0	9.1	8.9
Petroleum	275	275	197	-3.7	11.6	11.8	8.7
Natural Gas	0	0	67	NM	.0	.0	3.0
Other Gases	8	8	9	1.8	.3	.3	.4
Hydroelectric	14	25	22	4.8	.6	1.1	1.0
Other Renewables	259	221	148	-6.1	10.9	9.4	6.5
Total IPP's & Combined Heat and Power	770	742	645	-2.0	32.5	31.7	28.4
Coal	213	213	202	-6	9.0	9.1	8.9
Petroleum	1,874	1,849	1,815	-4	79.0	79.1	80.1
Natural Gas	0	18	67	NM	.0	.8	3.0
Other Gases	8	8	9	1.8	.3	.3	.4
Hydroelectric	18	28	23	3.2	.7	1.2	1.0
Other Renewables	259	221	150	-5.9	10.9	9.4	6.6
Total Electric Industry	2,372	2,337	2,267	-5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Hawaii							
Petroleum	6,070,063	6,193,852	7,502,913	2.4	61.0	60.1	64.3
Hydroelectric	13,752	18,791	8,533	-5.2	.1	.2	.1
Other Renewables	0	0	1,605	NM	.0	.0	.0
Total Electric Utilities	6,083,815	6,212,643	7,513,051	2.4	61.2	60.2	64.4
Coal	1,479,075	1,574,731	1,545,797	.5	14.9	15.3	13.3
Petroleum	1,323,918	1,495,288	1,964,077	4.5	13.3	14.5	16.8
Other Gases	63,068	65,383	40,816	-4.7	.6	.6	.3
Hydroelectric	42,491	96,540	86,535	8.2	.4	.9	.7
Other Renewables	951,321	867,663	512,794	-6.6	9.6	8.4	4.4
Total IPP's & Combined Heat and Power	3,859,872	4,099,604	4,150,018	.8	38.8	39.8	35.6
Coal	1,479,075	1,574,731	1,545,797	.5	14.9	15.3	13.3
Petroleum	7,393,981	7,689,140	9,466,990	2.8	74.4	74.6	81.2
Other Gases	63,068	65,383	40,816	-4.7	.6	.6	.3
Hydroelectric	56,243	115,331	95,068	6.0	.6	1.1	.8
Other Renewables	951,321	867,663	514,399	-6.6	9.6	8.4	4.4
Total Electric Industry	9,943,687	10,312,247	11,663,069	1.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Hawaii				
Coal (2002 cents per million Btu)	0.0	0.0	303.4	NM
Average heat value (Btu per pound).....	0	0	11,454	NM
Average sulfur Content(percent)0	.0	.3	NM
Petroleum (2002 cents per million Btu)	344.0	374.4	491.8	4.0
Average heat value (Btu per gallon).....	149,195	149,351	142,633	-.5
Average sulfur Content(percent)4	.4	.4	.3

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Hawaii				
Sulfur Dioxide				
Coal	3	4	7	10.1
Petroleum	20	27	22	.9
Other.....	*	*	*	10.5
Total	23	31	29	2.4
Nitrogen Oxide				
Coal	5	7	3	-4.5
Petroleum	9	9	11	2.4
Gas.....	*	*	*	-14.3
Other.....	1	1	1	.9
Total	15	17	15	.1
Carbon Dioxide				
Coal	1,374	1,682	1,698	2.4
Petroleum	6,512	6,840	7,253	1.2
Gas.....	74	44	23	-12.2
Other.....	76	68	54	-3.8
Total	8,036	8,634	9,028	1.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Hawaii							
Retail Sales (thousand megawatthours)							
Residential.....	2,469	2,668	2,898	1.8	28.5	28.5	29.3
Commercial.....	2,363	2,782	3,168	3.3	27.3	29.7	32.0
Industrial.....	3,770	3,856	3,770	.0	43.5	41.2	38.1
Other.....	56	57	55	-.3	.6	.6	.6
Total.....	8,658	9,363	9,892	1.5	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	338	406	453	3.3	32.8	33.8	34.2
Commercial.....	308	379	447	4.2	29.9	31.5	33.7
Industrial.....	376	409	415	1.1	36.5	34.0	31.4
Other.....	7	8	9	3.1	.7	.6	.7
Total.....	1,028	1,202	1,325	2.9	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	13.68	15.21	15.63	1.5	NA	NA	NA
Commercial.....	13.01	13.63	14.11	.9	NA	NA	NA
Industrial.....	9.97	10.61	11.02	1.1	NA	NA	NA
Other.....	12.55	13.56	16.85	3.3	NA	NA	NA
Total.....	11.87	12.83	13.39	1.3	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Hawaii						
Number of Entities.....	3	1	0	0	0	4
Number of Retail Customers.....	408,605	26,203	0	0	0	434,808
Retail Sales (thousand megawatthours).....	9,544	347	0	0	0	9,892
Percentage of Retail Sales.....	96.49	3.51	.00	.00	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	1,248	77	0	0	0	1,325
Percentage of Revenue.....	94.22	5.78	.00	.00	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	13.08	22.06	.00	.00	0	13.39

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as ".5").