APPENDIX C-1. TECHNICAL SUPPLEMENTS: ENERGY EFFICIENCY RESOURCES, MARKET SEGMENTATION

Appendix C-1 provides details on the Class 2 market segmentation.

Tables C-1.1 and C-1.2 show the commercial, industrial, irrigation, and street lighting segments and end uses modeled in each state.[1]

Tables C-1.3 through C-1.7 show equipment saturations, fuel shares, efficiency shares, and unit energy consumptions (UECs) for all residential end uses. Saturations represent the average number of units in a building. Fuel shares represent the percent of units that are electric. The "share of equipment above standard" reflects the percent of units that are more efficient than equipment that meets minimum federal standards in 2012.

For central cooling, this share includes evaporative coolers, which were considered as above standard equipment. Weighted average UECs reflect average annual consumption for a given end use. Averages are weighted by the distribution of equipment efficiencies for each end use. For some end uses, UECs for new construction differ from existing construction due to federal standards.

Tables C-1.8 through C-1.12 show saturations, fuel shares, efficiency shares, and energy use intensities (EUIs) for commercial end uses. Commercial heating and cooling saturations reflect the average percent of floor space that is heated or cooled. Commercial water heating and refrigeration saturations represent the percent of facilities with the end use. Saturations are embedded in lighting and plug load EUIs.

Cadmus modeled lighting in commercial new construction as one end use to capture the lighting power density (LPD) improvements required by code. For this reason, the "Lighting Interior Other" represents all lighting technologies for new construction.

Cadmus modeled data centers using a top-down approach, outside of the commercial model. Table C-1.13 shows base year data center consumption by end use. Data center consumption was informed by PacifiCorp's load forecast and secondary research.[2]

Table C-1.14 show the shares of end use consumption used in the modeling of the industrial sector.

---

[1]   All residential end uses, with the exception of pool pumps, listed in Table 39 of Volume I were modeled in each residential segment (single family, multifamily, and manufactured). Pool pumps were only modeled for single family homes.

[2]   Data center end use consumption: http://hightech.lbl.gov/documents/data_centers/aceee162.pdf

Table C-1.1. Commercial Segment End Use Combinations

Segment	Computers	Cooking	Cooling DX	Cooling Room	Cooling Chillers	Fans[a]	Heat Pump	HVAC[a]	HVAC Aux	Lighting	Other Office Equipment[b]	Other Plug Load[c]	Refrigeration	Space Heat	Water Heat
Data Center						UT		UT		UT	UT				
Grocery	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY				CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Health	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Large Office	ID, UT, WA, WY		ID, UT, WA, WY		ID, UT, WA, WY		ID, UT, WA, WY		ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY		ID, UT, WA, WY	ID, UT, WA, WY
Large Retail	ID, UT, WA, WY		ID, UT, WA, WY				ID, UT, WA, WY		ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY		ID, UT, WA, WY	ID, UT, WA, WY
Lodging	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Miscellaneous	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Restaurant	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY				CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
School	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Small Office	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY				CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Small Retail	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY				CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY

Segment	Computers	Cooking	Cooling DX	Cooling Room	Cooling Chillers	Fans[a]	Heat Pump	HVAC[a]	HVAC Aux	Lighting	Other Office Equipment[b]	Other Plug Load[c]	Refrigeration	Space Heat	Water Heat
Warehouse	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Warehouse Controlled Atmosphere										WA		WA			

Notes:

[a] Data center (Fans and HVAC)-only end use.

[b] Other Office Equipment includes fax machines, flat screen monitors, photo copiers, printers, and servers.,

[c] Other Plug Load includes refrigerators, freezers, and vending machines.

Table C-1.2. Industrial, Irrigation, and Street Lighting Segment End Use Combinations

Segment	Fans	HVAC	Indirect Boiler	Lighting	Motors Other	Other	Process Aircomp	Process Cool	Process Electro Chemical	Process Heat	Process Other	Process Refrigeration	Pumps
Agriculture	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY		CA, ID, UT, WA, WY			CA, ID, UT, WA, WY
Chemical Mfg	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY
Data Center	UT	UT		UT		UT							
Electronic Equipment Mfg	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY	ID, UT, WA, WY
Food Mfg	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Industrial Machinery	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Irrigation						CA, ID, UT, WA, WY							CA, ID, UT, WA, WY
Lumber Wood Products	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Mining					UT, WY					UT, WY	UT, WY		UT, WY
Miscellaneous Mfg	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Paper Mfg	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA	UT, WA
Petroleum Refining	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Metal Mfg	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY

Segment	Fans	HVAC	Indirect Boiler	Lighting	Motors Other	Other	Process Aircomp	Process Cool	Process Electro Chemical	Process Heat	Process Other	Process Refrigeration	Pumps
Stone Clay Glass Products	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY		CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Street Lighting				CA, ID, UT,WA, WY									
Transportation Equipment Mfg	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY
Wastewater				ID, UT, WA, WY		ID, UT, WA, WY	ID, UT, WA, WY						ID, UT, WA, WY
Water	CA, ID, UT, WA, WY			CA, ID, UT, WA, WY	CA, ID, UT, WA, WY	CA, ID, UT, WA, WY							CA, ID, UT, WA, WY

**Table C-1.3. California Residential Saturations, Fuel Shares,
Share Above Standard and UECs**

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Manufactured	Computer	0.81	100%	60%	193	184
Manufactured	Cooking Oven	1.00	77%	5%	105	105
Manufactured	Cooking Range	1.00	86%	0%	53	53
Manufactured	Cool Central	0.33	100%	56%	964	553
Manufactured	Cool Room	0.08	100%	42%	496	333
Manufactured	DVD	0.72	100%	63%	22	21
Manufactured	Dryer	0.99	95%	2%	707	683
Manufactured	Freezer	0.55	100%	20%	421	400
Manufactured	Heat Central	0.53	85%	0%	9,718	6,895
Manufactured	Heat Pump	0.11	100%	11%	4,432	2,904
Manufactured	Heat Room	0.21	16%	7%	8,679	6,438
Manufactured	Home Audio System	0.79	100%	34%	103	96
Manufactured	Lighting Interior Specialty	5.55	100%	30%	24	24
Manufactured	Lighting Standard	31.46	100%	30%	30	30
Manufactured	Microwave	0.98	100%	2%	148	148
Manufactured	Monitor	0.69	100%	70%	56	60
Manufactured	Other	1.00	100%	0%	1,099	1,099
Manufactured	Plug Load Other	1.00	100%	0%	589	589
Manufactured	Printer	0.77	100%	70%	169	142
Manufactured	Refrigerator	1.09	100%	40%	425	428
Manufactured	Set Top Box	0.53	100%	51%	206	204
Manufactured	TV	1.21	100%	74%	195	187
Manufactured	Ventilation And Circulation	0.58	100%	5%	443	443
Manufactured	Water Heat GT 55 Gal	0.08	91%	5%	2,158	2,249
Manufactured	Water Heat LE 55 Gal	0.93	91%	5%	2,109	2,107
Multifamily	Computer	0.55	100%	60%	193	184
Multifamily	Cooking Oven	1.00	73%	5%	105	105
Multifamily	Cooking Range	1.00	88%	0%	53	53
Multifamily	Cool Central	0.03	100%	9%	1,333	795
Multifamily	Cool Room	0.34	100%	41%	417	354
Multifamily	Copier	0.05	100%	85%	144	152
Multifamily	DVD	0.45	100%	63%	22	21
Multifamily	Dehumidifier	0.01	100%	0%	882	853
Multifamily	Dryer	0.41	100%	2%	489	472
Multifamily	Freezer	0.03	100%	20%	421	400
Multifamily	Heat Central	0.11	25%	0%	6,189	5,375
Multifamily	Heat Pump	0.24	100%	10%	2,835	2,257
Multifamily	Heat Room	0.67	77%	0%	5,825	5,145
Multifamily	Home Audio System	0.64	100%	34%	103	96
Multifamily	Lighting Interior Specialty	3.98	100%	30%	24	24

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Multifamily	Lighting Standard	22.54	100%	30%	30	30
Multifamily	Microwave	0.85	100%	2%	148	148
Multifamily	Monitor	0.48	100%	70%	56	60
Multifamily	Other	1.00	100%	0%	1,099	1,099
Multifamily	Plug Load Other	1.00	100%	0%	289	289
Multifamily	Printer	0.76	100%	70%	169	142
Multifamily	Refrigerator	1.05	100%	33%	430	433
Multifamily	Set Top Box	0.57	100%	51%	206	204
Multifamily	TV	1.12	100%	74%	195	187
Multifamily	Ventilation And Circulation	0.12	100%	5%	317	317
Multifamily	Water Heat GT 55 Gal	0.08	81%	5%	1,493	1,556
Multifamily	Water Heat LE 55 Gal	0.93	81%	5%	1,459	1,458
Single Family	Computer	1.02	100%	60%	193	184
Single Family	Cooking Oven	1.00	77%	5%	105	105
Single Family	Cooking Range	1.00	81%	0%	53	53
Single Family	Cool Central	0.24	100%	41%	1,382	753
Single Family	Cool Room	0.19	100%	41%	471	395
Single Family	Copier	0.10	100%	85%	144	152
Single Family	DVD	0.99	100%	63%	22	21
Single Family	Dehumidifier	0.02	100%	0%	882	853
Single Family	Dryer	0.96	94%	2%	842	813
Single Family	Freezer	0.64	100%	20%	421	400
Single Family	Heat Central	0.30	22%	0%	10,240	7,929
Single Family	Heat Pump	0.14	100%	11%	4,628	3,295
Single Family	Heat Room	0.38	24%	2%	9,305	7,464
Single Family	Home Audio System	0.79	100%	34%	103	96
Single Family	Lighting Interior Specialty	6.85	100%	30%	24	24
Single Family	Lighting Standard	38.84	100%	30%	30	30
Single Family	Microwave	0.94	100%	2%	148	148
Single Family	Monitor	0.77	100%	70%	56	60
Single Family	Other	1.00	100%	0%	1,099	1,099
Single Family	Plug Load Other	1.00	100%	0%	837	837
Single Family	Pool Pump	0.00	100%	3%	922	922
Single Family	Printer	1.07	100%	70%	169	142
Single Family	Refrigerator	1.14	100%	35%	429	432
Single Family	Set Top Box	0.55	100%	51%	206	204
Single Family	TV	1.45	100%	74%	195	187
Single Family	Ventilation And Circulation	0.33	100%	5%	547	547
Single Family	Water Heat GT 55 Gal	0.08	83%	5%	2,570	2,678
Single Family	Water Heat LE 55 Gal	0.93	83%	5%	2,512	2,509

**Table C-1.4. Idaho Residential Saturations, Fuel Shares,
Share Above Standard, and UECs**

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Manufactured	Computer	0.71	100%	60%	193	184
Manufactured	Cooking Oven	1.00	62%	5%	105	105
Manufactured	Cooking Range	1.00	60%	0%	53	53
Manufactured	Cool Central	0.38	100%	71%	410	238
Manufactured	Cool Room	0.33	100%	41%	511	250
Manufactured	Copier	0.06	100%	85%	144	152
Manufactured	DVD	1.09	100%	63%	22	21
Manufactured	Dryer	1.02	87%	2%	987	953
Manufactured	Freezer	0.74	100%	20%	407	387
Manufactured	Heat Central	0.80	58%	0%	17,576	9,342
Manufactured	Heat Room	0.07	67%	0%	15,789	8,650
Manufactured	Home Audio System	0.79	100%	34%	103	96
Manufactured	Lighting Interior Specialty	5.46	100%	28%	23	23
Manufactured	Lighting Standard	30.91	100%	28%	29	29
Manufactured	Microwave	0.98	100%	2%	148	148
Manufactured	Monitor	0.61	100%	70%	56	60
Manufactured	Plug Load Other	1.00	100%	0%	710	710
Manufactured	Printer	0.88	100%	70%	169	142
Manufactured	Refrigerator	1.04	100%	49%	405	409
Manufactured	Set Top Box	0.28	100%	51%	206	204
Manufactured	TV	1.48	100%	74%	195	187
Manufactured	Ventilation And Circulation	0.81	100%	5%	647	647
Manufactured	Water Heat GT 55 Gal	0.08	58%	5%	3,308	3,448
Manufactured	Water Heat LE 55 Gal	0.93	58%	6%	3,223	3,230
Multifamily	Computer	0.65	100%	60%	193	184
Multifamily	Cooking Oven	1.00	77%	5%	105	105
Multifamily	Cooking Range	1.00	85%	0%	53	53
Multifamily	Cool Central	0.53	100%	9%	1,070	601
Multifamily	Cool Room	0.06	100%	41%	496	269
Multifamily	DVD	0.69	100%	63%	22	21
Multifamily	Dehumidifier	0.05	100%	0%	882	853
Multifamily	Dryer	0.74	89%	2%	649	626
Multifamily	Freezer	0.31	100%	20%	407	387
Multifamily	Heat Central	0.63	20%	0%	14,657	9,060
Multifamily	Heat Room	0.38	89%	0%	13,833	8,695
Multifamily	Home Audio System	0.74	100%	34%	103	96
Multifamily	Lighting Interior Specialty	5.10	100%	28%	23	23
Multifamily	Lighting Standard	28.91	100%	28%	29	29
Multifamily	Microwave	1.00	100%	2%	148	148
Multifamily	Monitor	0.46	100%	70%	56	60

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Multifamily	Plug Load Other	1.00	100%	0%	291	291
Multifamily	Printer	0.55	100%	70%	169	142
Multifamily	Refrigerator	1.08	100%	33%	416	419
Multifamily	Set Top Box	0.36	100%	51%	206	204
Multifamily	TV	1.15	100%	74%	195	187
Multifamily	Ventilation And Circulation	0.64	100%	5%	605	605
Multifamily	Water Heat GT 55 Gal	0.08	50%	5%	2,174	2,266
Multifamily	Water Heat LE 55 Gal	0.93	50%	6%	2,116	2,123
Single Family	Computer	1.20	100%	60%	193	184
Single Family	Cooking Oven	1.00	73%	5%	105	105
Single Family	Cooking Range	1.00	77%	0%	53	53
Single Family	Cool Central	0.27	100%	33%	1,098	558
Single Family	Cool Room	0.21	100%	41%	676	382
Single Family	Copier	0.12	100%	85%	144	152
Single Family	DVD	1.23	100%	63%	22	21
Single Family	Dehumidifier	0.00	100%	0%	882	853
Single Family	Dryer	1.03	83%	2%	1,118	1,079
Single Family	Freezer	0.83	100%	20%	407	387
Single Family	Heat Central	0.59	10%	0%	22,725	13,447
Single Family	Heat Pump	0.01	100%	10%	11,568	6,644
Single Family	Heat Room	0.29	71%	0%	20,376	12,544
Single Family	Home Audio System	0.79	100%	34%	103	96
Single Family	Lighting Interior Specialty	8.09	100%	28%	23	23
Single Family	Lighting Standard	45.82	100%	28%	29	29
Single Family	Microwave	0.95	100%	2%	148	148
Single Family	Monitor	0.92	100%	70%	56	60
Single Family	Plug Load Other	1.00	100%	0%	715	715
Single Family	Pool Pump	0.01	100%	3%	1,369	1,369
Single Family	Printer	0.98	100%	70%	169	142
Single Family	Refrigerator	1.11	100%	46%	407	410
Single Family	Set Top Box	0.46	100%	51%	206	204
Single Family	TV	1.69	100%	74%	195	187
Single Family	Ventilation And Circulation	0.60	100%	5%	958	958
Single Family	Water Heat GT 55 Gal	0.08	49%	5%	3,748	3,906
Single Family	Water Heat LE 55 Gal	0.93	49%	6%	3,647	3,659

Table C-1.5. Utah Residential Saturations, Fuel Shares,
Share Above Standard, and UECs

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Manufactured	Computer	1.00	100%	60%	193	184
Manufactured	Cooking Oven	1.00	38%	5%	105	105
Manufactured	Cooking Range	1.00	31%	0%	53	53
Manufactured	Cool Central	1.00	100%	82%	679	462
Manufactured	Copier	0.06	100%	85%	144	152
Manufactured	DVD	1.00	100%	63%	22	21
Manufactured	Dryer	0.87	92%	2%	871	841
Manufactured	Freezer	0.31	100%	20%	486	463
Manufactured	Heat Central	0.92	6%	0%	8,993	4,668
Manufactured	Heat Room	0.08	0%	0%	8,117	4,328
Manufactured	Home Audio System	0.79	100%	34%	103	96
Manufactured	Lighting Interior Specialty	4.56	100%	30%	28	28
Manufactured	Lighting Standard	25.82	100%	30%	34	34
Manufactured	Microwave	0.94	100%	2%	148	148
Manufactured	Monitor	0.88	100%	70%	56	60
Manufactured	Plug Load Other	1.00	100%	0%	363	363
Manufactured	Printer	0.88	100%	70%	169	142
Manufactured	Refrigerator	1.00	100%	41%	490	496
Manufactured	Set Top Box	0.28	100%	51%	206	204
Manufactured	TV	1.75	100%	74%	195	187
Manufactured	Ventilation And Circulation	0.94	100%	5%	380	380
Manufactured	Water Heat GT 55 Gal	0.08	20%	5%	2,486	2,591
Manufactured	Water Heat LE 55 Gal	0.93	20%	5%	2,433	2,427
Multifamily	Computer	0.90	100%	60%	193	184
Multifamily	Cooking Oven	1.00	85%	5%	105	105
Multifamily	Cooking Range	1.00	85%	0%	53	53
Multifamily	Cool Central	0.87	100%	26%	1,879	1,122
Multifamily	Cool Room	0.23	100%	41%	565	547
Multifamily	DVD	1.15	100%	63%	22	21
Multifamily	Dehumidifier	0.05	100%	0%	882	853
Multifamily	Dryer	0.88	91%	2%	759	733
Multifamily	Freezer	0.23	100%	20%	486	463
Multifamily	Heat Central	0.78	9%	0%	10,197	6,193
Multifamily	Heat Room	0.17	67%	0%	9,656	5,949
Multifamily	Home Audio System	0.74	100%	34%	103	96
Multifamily	Lighting Interior Specialty	5.96	100%	30%	28	28
Multifamily	Lighting Standard	33.76	100%	30%	34	34
Multifamily	Microwave	0.92	100%	2%	148	148
Multifamily	Monitor	0.69	100%	70%	56	60
Multifamily	Plug Load Other	1.00	100%	0%	390	390

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Multifamily	Printer	0.55	100%	70%	169	142
Multifamily	Refrigerator	1.03	100%	35%	495	501
Multifamily	Set Top Box	0.36	100%	51%	206	204
Multifamily	TV	1.41	100%	74%	195	187
Multifamily	Ventilation And Circulation	0.79	100%	5%	496	496
Multifamily	Water Heat GT 55 Gal	0.08	27%	5%	2,168	2,260
Multifamily	Water Heat LE 55 Gal	0.93	27%	5%	2,123	2,117
Single Family	Computer	1.38	100%	60%	193	184
Single Family	Cooking Oven	1.00	67%	5%	105	105
Single Family	Cooking Range	1.00	66%	0%	53	53
Single Family	Cool Central	0.96	100%	42%	2,172	1,244
Single Family	Cool Room	0.04	100%	44%	638	509
Single Family	Copier	0.12	100%	85%	144	152
Single Family	DVD	1.34	100%	63%	22	21
Single Family	Dehumidifier	0.00	100%	0%	882	853
Single Family	Dryer	1.04	76%	2%	1,110	1,072
Single Family	Freezer	0.58	100%	20%	486	463
Single Family	Heat Central	0.87	7%	0%	15,295	9,036
Single Family	Heat Pump	0.01	100%	10%	7,175	3,950
Single Family	Heat Room	0.09	39%	0%	14,159	8,555
Single Family	Home Audio System	0.79	100%	34%	103	96
Single Family	Lighting Interior Specialty	9.29	100%	30%	28	28
Single Family	Lighting Standard	52.63	100%	30%	34	34
Single Family	Microwave	0.95	100%	2%	148	148
Single Family	Monitor	0.98	100%	70%	56	60
Single Family	Plug Load Other	1.00	100%	0%	530	530
Single Family	Pool Pump	0.01	100%	3%	1,369	1,369
Single Family	Printer	0.98	100%	70%	169	142
Single Family	Refrigerator	1.11	100%	56%	478	484
Single Family	Set Top Box	0.46	100%	51%	206	204
Single Family	TV	1.72	100%	74%	195	187
Single Family	Ventilation And Circulation	0.89	100%	5%	774	774
Single Family	Water Heat GT 55 Gal	0.08	11%	5%	3,170	3,304
Single Family	Water Heat LE 55 Gal	0.93	11%	5%	3,101	3,095

Table C-1.6. Washington Residential Saturations, Fuel Shares, Share Above Standard, and UECs

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Manufactured	Computer	0.72	100%	60%	193	184
Manufactured	Cooking Oven	1.00	73%	5%	105	105
Manufactured	Cooking Range	1.00	89%	0%	53	53
Manufactured	Cool Central	0.88	100%	15%	1,368	716
Manufactured	Cool Room	0.23	100%	42%	428	307
Manufactured	DVD	0.83	100%	63%	22	21
Manufactured	Dryer	0.98	98%	2%	909	877
Manufactured	Freezer	0.74	100%	100%	328	328
Manufactured	Heat Central	0.60	100%	0%	13,417	6,043
Manufactured	Heat Pump	0.31	100%	10%	6,433	2,736
Manufactured	Heat Room	0.12	29%	0%	12,260	5,686
Manufactured	Home Audio System	0.79	100%	34%	103	96
Manufactured	Lighting Interior Specialty	5.39	100%	33%	23	23
Manufactured	Lighting Standard	30.53	100%	33%	28	28
Manufactured	Microwave	0.94	100%	2%	148	148
Manufactured	Monitor	0.65	100%	70%	56	60
Manufactured	Other	1.00	100%	0%	1,767	1,767
Manufactured	Plug Load Other	1.00	100%	0%	687	687
Manufactured	Printer	0.77	100%	70%	169	142
Manufactured	Refrigerator	1.25	100%	100%	344	344
Manufactured	Set Top Box	0.53	100%	51%	206	204
Manufactured	TV	1.46	100%	74%	195	187
Manufactured	Ventilation And Circulation	0.66	100%	0%	352	352
Manufactured	Water Heat GT 55 Gal	0.08	98%	5%	2,571	2,680
Manufactured	Water Heat LE 55 Gal	0.93	98%	0%	2,516	2,516
Multifamily	Computer	0.61	100%	60%	193	184
Multifamily	Cooking Oven	1.00	83%	5%	105	105
Multifamily	Cooking Range	1.00	83%	0%	53	53
Multifamily	Cool Central	0.69	100%	9%	1,206	701
Multifamily	Cool Room	0.67	100%	41%	369	319
Multifamily	Copier	0.05	100%	85%	144	152
Multifamily	DVD	0.86	100%	63%	22	21
Multifamily	Dehumidifier	0.01	100%	0%	882	853
Multifamily	Dryer	0.76	100%	2%	726	701
Multifamily	Freezer	0.22	100%	0%	400	400
Multifamily	Heat Central	0.46	18%	0%	9,877	5,893
Multifamily	Heat Pump	0.06	100%	3%	4,770	2,663
Multifamily	Heat Room	0.45	90%	0%	9,405	5,705
Multifamily	Home Audio System	0.64	100%	34%	103	96
Multifamily	Lighting Interior Specialty	4.39	100%	33%	23	23

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Multifamily	Lighting Standard	24.88	100%	33%	28	28
Multifamily	Microwave	0.96	100%	2%	148	148
Multifamily	Monitor	0.57	100%	70%	56	60
Multifamily	Other	1.00	100%	0%	1,767	1,767
Multifamily	Plug Load Other	1.00	100%	0%	290	290
Multifamily	Printer	0.76	100%	70%	169	142
Multifamily	Refrigerator	1.28	100%	100%	376	376
Multifamily	Set Top Box	0.57	100%	51%	206	204
Multifamily	TV	1.76	100%	74%	195	187
Multifamily	Ventilation And Circulation	0.51	100%	0%	287	287
Multifamily	Water Heat GT 55 Gal	0.08	83%	5%	2,055	2,142
Multifamily	Water Heat LE 55 Gal	0.93	83%	0%	2,011	2,011
Single Family	Computer	1.15	100%	60%	193	184
Single Family	Cooking Oven	1.00	77%	5%	105	105
Single Family	Cooking Range	1.00	79%	0%	53	53
Single Family	Cool Central	0.81	100%	14%	1,732	875
Single Family	Cool Room	0.28	100%	42%	425	324
Single Family	Copier	0.10	100%	85%	144	152
Single Family	DVD	1.13	100%	63%	22	21
Single Family	Dehumidifier	0.02	100%	0%	882	853
Single Family	Dryer	1.00	95%	2%	997	963
Single Family	Freezer	0.86	100%	0%	400	400
Single Family	Heat Central	0.59	18%	0%	16,254	8,792
Single Family	Heat Pump	0.18	100%	3%	7,685	3,946
Single Family	Heat Room	0.18	53%	0%	15,111	8,439
Single Family	Home Audio System	0.79	100%	34%	103	96
Single Family	Lighting Interior Specialty	7.80	100%	33%	23	23
Single Family	Lighting Standard	44.20	100%	33%	28	28
Single Family	Microwave	0.95	100%	2%	148	148
Single Family	Monitor	0.95	100%	70%	56	60
Single Family	Other	1.00	100%	0%	1,767	1,767
Single Family	Plug Load Other	1.00	100%	0%	731	731
Single Family	Pool Pump	0.05	100%	3%	922	922
Single Family	Printer	1.07	100%	70%	169	142
Single Family	Refrigerator	1.40	100%	100%	376	376
Single Family	Set Top Box	0.55	100%	51%	206	204
Single Family	TV	1.69	100%	74%	195	187
Single Family	Ventilation And Circulation	0.65	100%	0%	510	510
Single Family	Water Heat GT 55 Gal	0.08	69%	5%	2,823	2,942
Single Family	Water Heat LE 55 Gal	0.93	69%	0%	2,762	2,762

**Table C-1.7. Wyoming Residential Saturations, Fuel Shares,
Share Above Standard, and UECs**

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Manufactured	Computer	0.75	100%	60%	193	184
Manufactured	Cooking Oven	1.00	38%	5%	105	105
Manufactured	Cooking Range	1.00	27%	0%	53	53
Manufactured	Cool Central	0.97	100%	79%	372	237
Manufactured	Cool Room	0.23	100%	41%	459	275
Manufactured	Copier	0.06	100%	85%	144	152
Manufactured	DVD	0.95	100%	63%	22	21
Manufactured	Dryer	1.00	94%	2%	946	913
Manufactured	Freezer	0.57	100%	20%	437	416
Manufactured	Heat Central	0.84	21%	0%	16,200	8,514
Manufactured	Heat Room	0.12	33%	0%	14,800	7,947
Manufactured	Home Audio System	0.79	100%	34%	103	96
Manufactured	Lighting Interior Specialty	5.16	100%	30%	25	25
Manufactured	Lighting Standard	29.26	100%	30%	30	30
Manufactured	Microwave	0.93	100%	2%	148	148
Manufactured	Monitor	0.64	100%	70%	56	60
Manufactured	Plug Load Other	1.00	100%	0%	563	563
Manufactured	Printer	0.88	100%	70%	169	142
Manufactured	Refrigerator	1.06	100%	39%	443	446
Manufactured	Set Top Box	0.28	100%	51%	206	204
Manufactured	TV	1.45	100%	74%	195	187
Manufactured	Ventilation And Circulation	0.86	100%	5%	580	580
Manufactured	Water Heat GT 55 Gal	0.08	30%	5%	2,970	3,095
Manufactured	Water Heat LE 55 Gal	0.93	30%	5%	2,904	2,900
Multifamily	Computer	0.70	100%	60%	193	184
Multifamily	Cooking Oven	1.00	78%	5%	105	105
Multifamily	Cooking Range	1.00	74%	0%	53	53
Multifamily	Cool Central	0.45	100%	61%	602	349
Multifamily	Cool Room	0.20	100%	41%	362	313
Multifamily	DVD	0.57	100%	63%	22	21
Multifamily	Dehumidifier	0.05	100%	0%	882	853
Multifamily	Dryer	0.75	88%	2%	558	539
Multifamily	Freezer	0.39	100%	20%	437	416
Multifamily	Heat Central	0.48	0%	0%	14,536	8,452
Multifamily	Heat Room	0.52	83%	0%	13,838	8,099
Multifamily	Home Audio System	0.74	100%	34%	103	96
Multifamily	Lighting Interior Specialty	5.32	100%	30%	25	25
Multifamily	Lighting Standard	30.17	100%	30%	30	30
Multifamily	Microwave	0.96	100%	2%	148	148
Multifamily	Monitor	0.52	100%	70%	56	60

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average UEC (kWh) - Existing	Weighted Average UEC (kWh) - New
Multifamily	Plug Load Other	1.00	100%	0%	491	491
Multifamily	Printer	0.55	100%	70%	169	142
Multifamily	Refrigerator	1.05	100%	33%	447	450
Multifamily	Set Top Box	0.36	100%	51%	206	204
Multifamily	TV	1.30	100%	74%	195	187
Multifamily	Ventilation And Circulation	0.49	100%	5%	598	598
Multifamily	Water Heat GT 55 Gal	0.08	52%	5%	1,753	1,827
Multifamily	Water Heat LE 55 Gal	0.93	52%	5%	1,715	1,712
Single Family	Computer	1.07	100%	60%	193	184
Single Family	Cooking Oven	1.00	74%	5%	105	105
Single Family	Cooking Range	1.00	80%	0%	53	53
Single Family	Cool Central	0.76	100%	60%	825	439
Single Family	Cool Room	0.17	100%	41%	397	288
Single Family	Copier	0.12	100%	85%	144	152
Single Family	DVD	0.98	100%	63%	22	21
Single Family	Dehumidifier	0.00	100%	0%	882	853
Single Family	Dryer	1.02	95%	2%	892	861
Single Family	Freezer	0.77	100%	20%	437	416
Single Family	Heat Central	0.67	7%	0%	21,312	11,939
Single Family	Heat Pump	0.03	100%	10%	10,958	5,846
Single Family	Heat Room	0.18	48%	0%	19,869	11,281
Single Family	Home Audio System	0.79	100%	34%	103	96
Single Family	Lighting Interior Specialty	8.18	100%	30%	25	25
Single Family	Lighting Standard	46.37	100%	30%	30	30
Single Family	Microwave	0.94	100%	2%	148	148
Single Family	Monitor	0.81	100%	70%	56	60
Single Family	Plug Load Other	1.00	100%	0%	572	572
Single Family	Pool Pump	0.00	100%	3%	1,369	1,369
Single Family	Printer	0.98	100%	70%	169	142
Single Family	Refrigerator	1.13	100%	57%	430	432
Single Family	Set Top Box	0.46	100%	51%	206	204
Single Family	TV	1.65	100%	74%	195	187
Single Family	Ventilation And Circulation	0.68	100%	5%	920	920
Single Family	Water Heat GT 55 Gal	0.08	23%	5%	2,800	2,919
Single Family	Water Heat LE 55 Gal	0.93	23%	5%	2,736	2,734

**Table C-1.8. California Commercial Saturations, Fuel Shares,
Share Above Standard, and EUIs**

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/ sqft) - Existing	Weighted Average EUI (kWh/ sqft) - New
Grocery	Computers	1.00	100%	60%	0.05	0.05
Grocery	Cooking	0.56	22%	0%	2.17	2.17
Grocery	Cooling DX Evap	0.73	100%	36%	3.77	2.18
Grocery	Fax	1.00	100%	6%	0.02	0.02
Grocery	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Grocery	Freezers	1.00	100%	0%	0.01	0.01
Grocery	Heat Pump	0.05	100%	3%	8.80	4.06
Grocery	Lighting Exterior	1.00	100%	0%	1.05	1.05
Grocery	Lighting Interior Fluorescent	1.00	100%	7%	7.70	.
Grocery	Lighting Interior HID	1.00	100%	94%	1.11	.
Grocery	Lighting Interior Other	1.00	100%	0%	0.16	8.41
Grocery	Lighting Interior Screw Base	1.00	100%	72%	1.06	.
Grocery	Other Plug Load	1.00	100%	0%	0.94	0.94
Grocery	Photo Copiers	1.00	100%	83%	0.11	0.11
Grocery	Printers	1.00	100%	70%	0.02	0.02
Grocery	Refrigeration	0.72	100%	0%	22.21	22.21
Grocery	Refrigerators	1.00	100%	0%	0.06	0.06
Grocery	Space Heat	0.83	27%	0%	4.68	1.77
Grocery	Vending Machines	1.00	100%	27%	0.19	0.19
Grocery	Ventilation and Circulation	1.00	100%	0%	4.51	4.30
Grocery	Water Heat GT 55 Gal	0.08	60%	11%	0.35	0.35
Grocery	Water Heat LE 55 Gal	0.92	60%	11%	0.36	0.35
Health	Computers	1.00	100%	60%	0.35	0.33
Health	Cooking	0.26	5%	0%	0.44	0.44
Health	Cooling Chillers	0.13	100%	3%	1.58	0.87
Health	Cooling DX Evap	0.75	100%	36%	2.42	1.42
Health	Fax	1.00	100%	6%	0.01	0.00
Health	Flat Screen Monitors	1.00	100%	78%	0.07	0.08
Health	Freezers	1.00	100%	0%	0.01	0.01
Health	Heat Pump	0.04	100%	6%	7.86	5.06
Health	Lighting Exterior	1.00	100%	0%	0.58	0.58
Health	Lighting Interior Fluorescent	1.00	100%	62%	5.53	.
Health	Lighting Interior HID	1.00	100%	60%	0.12	.
Health	Lighting Interior Other	1.00	100%	0%	0.27	5.20
Health	Lighting Interior Screw Base	1.00	100%	100%	1.04	.
Health	Other Plug Load	1.00	100%	0%	2.81	2.81
Health	Photo Copiers	1.00	100%	83%	0.02	0.02
Health	Printers	1.00	100%	70%	0.08	0.07
Health	Refrigeration	0.30	100%	0%	0.65	0.65
Health	Refrigerators	1.00	100%	0%	0.11	0.11

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/ sqft) - Existing	Weighted Average EUI (kWh/ sqft) - New
Health	Servers	1.00	100%	4%	0.06	0.06
Health	Space Heat	0.91	21%	0%	9.06	6.25
Health	Vending Machines	1.00	100%	27%	0.05	0.05
Health	Ventilation and Circulation	1.00	100%	0%	6.71	5.71
Health	Water Heat GT 55 Gal	0.08	34%	11%	1.69	1.67
Health	Water Heat LE 55 Gal	0.87	34%	11%	1.73	1.67
Lodging	Computers	1.00	100%	60%	0.08	0.07
Lodging	Cooking	0.60	1%	0%	0.72	0.72
Lodging	Cooling Chillers	0.15	100%	3%	1.69	0.97
Lodging	Cooling DX Evap	0.29	100%	36%	1.90	1.22
Lodging	Cooling Room	0.22	100%	3%	2.35	1.55
Lodging	Fax	1.00	100%	6%	0.00	0.00
Lodging	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Lodging	Freezers	1.00	100%	0%	0.02	0.02
Lodging	Heat Pump	0.15	100%	7%	5.81	3.67
Lodging	Lighting Exterior	1.00	100%	0%	0.66	0.66
Lodging	Lighting Interior Fluorescent	1.00	100%	3%	1.16	.
Lodging	Lighting Interior HID	1.00	100%	99%	0.04	.
Lodging	Lighting Interior Other	1.00	100%	0%	0.04	2.55
Lodging	Lighting Interior Screw Base	1.00	100%	74%	3.14	.
Lodging	Other Plug Load	1.00	100%	0%	0.80	0.80
Lodging	Photo Copiers	1.00	100%	83%	0.01	0.01
Lodging	Printers	1.00	100%	70%	0.03	0.02
Lodging	Refrigeration	0.11	100%	0%	1.15	1.15
Lodging	Refrigerators	1.00	100%	0%	0.21	0.21
Lodging	Space Heat	0.78	43%	0%	6.06	4.04
Lodging	Vending Machines	1.00	100%	27%	0.09	0.09
Lodging	Ventilation and Circulation	1.00	100%	0%	2.59	2.53
Lodging	Water Heat GT 55 Gal	0.08	34%	11%	1.60	1.59
Lodging	Water Heat LE 55 Gal	0.87	34%	11%	1.64	1.59
Miscellaneous	Computers	1.00	100%	60%	0.15	0.15
Miscellaneous	Cooking	0.31	2%	0%	0.30	0.30
Miscellaneous	Cooling Chillers	0.01	100%	3%	2.45	1.35
Miscellaneous	Cooling DX Evap	0.38	100%	36%	2.75	1.70
Miscellaneous	Fax	1.00	100%	6%	0.02	0.02
Miscellaneous	Flat Screen Monitors	1.00	100%	78%	0.03	0.04
Miscellaneous	Freezers	1.00	100%	0%	0.01	0.01
Miscellaneous	Heat Pump	0.02	100%	4%	5.39	2.97
Miscellaneous	Lighting Exterior	1.00	100%	0%	1.23	1.23
Miscellaneous	Lighting Interior Fluorescent	1.00	100%	0%	2.62	.
Miscellaneous	Lighting Interior HID	1.00	100%	97%	0.92	.
Miscellaneous	Lighting Interior Other	1.00	100%	0%	0.13	3.19
Miscellaneous	Lighting Interior Screw Base	1.00	100%	51%	0.75	.

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/ sqft) - Existing	Weighted Average EUI (kWh/ sqft) - New
Miscellaneous	Other Plug Load	1.00	100%	0%	0.70	0.70
Miscellaneous	Photo Copiers	1.00	100%	83%	0.07	0.07
Miscellaneous	Printers	1.00	100%	70%	0.04	0.03
Miscellaneous	Refrigeration	0.11	100%	0%	0.87	0.87
Miscellaneous	Refrigerators	1.00	100%	0%	0.05	0.05
Miscellaneous	Servers	1.00	100%	4%	0.53	0.52
Miscellaneous	Space Heat	0.72	33%	0%	3.14	1.65
Miscellaneous	Vending Machines	1.00	100%	27%	0.08	0.08
Miscellaneous	Ventilation and Circulation	1.00	100%	0%	3.06	2.60
Miscellaneous	Water Heat GT 55 Gal	0.06	90%	11%	0.42	0.42
Miscellaneous	Water Heat LE 55 Gal	0.70	90%	11%	0.43	0.42
Restaurant	Computers	1.00	100%	60%	0.13	0.13
Restaurant	Cooking	0.81	27%	0%	10.44	10.44
Restaurant	Cooling DX Evap	0.70	100%	36%	4.37	2.44
Restaurant	Fax	1.00	100%	6%	0.02	0.02
Restaurant	Flat Screen Monitors	1.00	100%	78%	0.03	0.03
Restaurant	Freezers	1.00	100%	0%	0.01	0.01
Restaurant	Lighting Exterior	1.00	100%	0%	2.36	2.36
Restaurant	Lighting Interior Fluorescent	1.00	100%	0%	3.71	.
Restaurant	Lighting Interior HID	1.00	100%	100%	0.26	.
Restaurant	Lighting Interior Other	1.00	100%	0%	0.32	5.78
Restaurant	Lighting Interior Screw Base	1.00	100%	60%	4.55	.
Restaurant	Other Plug Load	1.00	100%	0%	1.18	1.18
Restaurant	Photo Copiers	1.00	100%	83%	0.10	0.11
Restaurant	Printers	1.00	100%	70%	0.04	0.03
Restaurant	Refrigeration	0.77	100%	0%	9.70	9.70
Restaurant	Refrigerators	1.00	100%	0%	0.05	0.05
Restaurant	Space Heat	0.93	50%	0%	3.93	2.05
Restaurant	Ventilation and Circulation	1.00	100%	0%	4.51	4.13
Restaurant	Water Heat GT 55 Gal	0.07	70%	11%	8.03	7.96
Restaurant	Water Heat LE 55 Gal	0.85	70%	11%	8.21	7.98
School	Computers	1.00	100%	60%	0.51	0.48
School	Cooking	0.60	28%	0%	0.36	0.36
School	Cooling Chillers	0.23	100%	3%	0.74	0.49
School	Cooling DX Evap	0.40	100%	36%	0.97	0.69
School	Fax	1.00	100%	6%	0.01	0.01
School	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
School	Freezers	1.00	100%	0%	0.00	0.00
School	Lighting Exterior	1.00	100%	0%	0.76	0.76
School	Lighting Interior Fluorescent	1.00	100%	0%	2.84	.
School	Lighting Interior HID	1.00	100%	85%	0.30	.
School	Lighting Interior Other	1.00	100%	0%	0.02	2.57
School	Lighting Interior Screw Base	1.00	100%	72%	0.14	.

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/ sqft) - Existing	Weighted Average EUI (kWh/ sqft) - New
School	Other Plug Load	1.00	100%	0%	0.05	0.05
School	Photo Copiers	1.00	100%	83%	0.06	0.07
School	Printers	1.00	100%	70%	0.09	0.07
School	Refrigeration	0.35	100%	0%	0.42	0.42
School	Refrigerators	1.00	100%	0%	0.04	0.04
School	Servers	1.00	100%	4%	0.03	0.03
School	Space Heat	0.97	13%	0%	12.50	7.45
School	Vending Machines	1.00	100%	27%	0.08	0.08
School	Ventilation and Circulation	1.00	100%	0%	2.74	2.06
School	Water Heat GT 55 Gal	0.07	41%	11%	1.70	1.68
School	Water Heat LE 55 Gal	0.83	41%	11%	1.74	1.68
Small Office	Computers	1.00	100%	60%	0.63	0.60
Small Office	Cooling DX Evap	0.69	100%	36%	2.62	1.63
Small Office	Fax	1.00	100%	6%	0.01	0.01
Small Office	Flat Screen Monitors	1.00	100%	78%	0.13	0.14
Small Office	Freezers	1.00	100%	0%	0.00	0.00
Small Office	Lighting Exterior	1.00	100%	0%	1.28	1.28
Small Office	Lighting Interior Fluorescent	1.00	100%	0%	3.16	.
Small Office	Lighting Interior HID	1.00	100%	91%	0.12	.
Small Office	Lighting Interior Other	1.00	100%	0%	0.04	2.56
Small Office	Lighting Interior Screw Base	1.00	100%	67%	0.47	.
Small Office	Other Plug Load	1.00	100%	0%	1.28	1.28
Small Office	Photo Copiers	1.00	100%	83%	0.03	0.03
Small Office	Printers	1.00	100%	70%	0.11	0.09
Small Office	Refrigerators	1.00	100%	0%	0.05	0.05
Small Office	Servers	1.00	100%	4%	0.10	0.10
Small Office	Space Heat	0.93	38%	0%	3.97	2.08
Small Office	Vending Machines	1.00	100%	27%	0.09	0.09
Small Office	Ventilation and Circulation	1.00	100%	0%	2.58	2.34
Small Office	Water Heat GT 55 Gal	0.07	96%	11%	0.49	0.49
Small Office	Water Heat LE 55 Gal	0.83	96%	11%	0.50	0.49
Small Retail	Computers	1.00	100%	60%	0.08	0.08
Small Retail	Cooling DX Evap	0.52	100%	33%	2.94	1.88
Small Retail	Fax	1.00	100%	6%	0.01	0.01
Small Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Small Retail	Freezers	1.00	100%	0%	0.00	0.00
Small Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Small Retail	Lighting Interior Fluorescent	1.00	100%	1%	4.66	.
Small Retail	Lighting Interior HID	1.00	100%	94%	0.83	.
Small Retail	Lighting Interior Other	1.00	100%	0%	0.24	4.67
Small Retail	Lighting Interior Screw Base	1.00	100%	67%	1.47	.
Small Retail	Other Plug Load	1.00	100%	0%	1.13	1.13
Small Retail	Photo Copiers	1.00	100%	83%	0.03	0.03

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/ sqft) - Existing	Weighted Average EUI (kWh/ sqft) - New
Small Retail	Printers	1.00	100%	70%	0.03	0.02
Small Retail	Refrigerators	1.00	100%	0%	0.02	0.02
Small Retail	Space Heat	0.84	20%	0%	2.32	1.21
Small Retail	Vending Machines	1.00	100%	27%	0.08	0.07
Small Retail	Ventilation and Circulation	1.00	100%	0%	3.54	2.86
Small Retail	Water Heat GT 55 Gal	0.05	94%	11%	0.35	0.34
Small Retail	Water Heat LE 55 Gal	0.56	94%	11%	0.36	0.34
Warehouse	Computers	1.00	100%	60%	0.10	0.10
Warehouse	Cooling Chillers	0.04	100%	3%	0.75	0.46
Warehouse	Cooling DX Evap	0.24	100%	36%	0.84	0.58
Warehouse	Fax	1.00	100%	6%	0.01	0.01
Warehouse	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Warehouse	Freezers	1.00	100%	0%	0.00	0.00
Warehouse	Heat Pump	0.04	100%	3%	2.74	2.01
Warehouse	Lighting Exterior	1.00	100%	0%	0.28	0.28
Warehouse	Lighting Interior Fluorescent	1.00	100%	1%	1.23	.
Warehouse	Lighting Interior HID	1.00	100%	72%	1.03	.
Warehouse	Lighting Interior Other	1.00	100%	0%	0.01	2.06
Warehouse	Lighting Interior Screw Base	1.00	100%	47%	0.55	.
Warehouse	Other Plug Load	1.00	100%	0%	0.23	0.23
Warehouse	Photo Copiers	1.00	100%	83%	0.04	0.04
Warehouse	Printers	1.00	100%	70%	0.02	0.02
Warehouse	Refrigerators	1.00	100%	0%	0.02	0.02
Warehouse	Space Heat	0.59	16%	0%	2.25	1.73
Warehouse	Vending Machines	1.00	100%	27%	0.03	0.03
Warehouse	Ventilation and Circulation	1.00	100%	0%	1.04	0.81
Warehouse	Water Heat GT 55 Gal	0.07	52%	11%	0.26	0.26
Warehouse	Water Heat LE 55 Gal	0.81	52%	11%	0.27	0.26

**Table C-1.9. Idaho Commercial Saturations, Fuel Shares,
Share Above Standard, and EUIs**

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Grocery	Computers	1.00	100%	60%	0.04	0.04
Grocery	Cooking	0.56	22%	0%	2.17	2.17
Grocery	Cooling DX Evap	0.73	100%	30%	3.40	2.01
Grocery	Fax	1.00	100%	6%	0.01	0.01
Grocery	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Grocery	Freezers	1.00	100%	0%	0.02	0.02
Grocery	Heat Pump	0.05	100%	3%	8.59	4.12
Grocery	Lighting Exterior	1.00	100%	0%	1.05	1.05
Grocery	Lighting Interior Fluorescent	1.00	100%	7%	7.70	.
Grocery	Lighting Interior HID	1.00	100%	94%	1.11	.
Grocery	Lighting Interior Other	1.00	100%	0%	0.16	8.41
Grocery	Lighting Interior Screw Base	1.00	100%	48%	1.18	.
Grocery	Other Plug Load	1.00	100%	0%	0.92	0.92
Grocery	Photo Copiers	1.00	100%	83%	0.05	0.05
Grocery	Printers	1.00	100%	70%	0.01	0.01
Grocery	Refrigeration	0.72	100%	0%	22.36	22.36
Grocery	Refrigerators	1.00	100%	0%	0.15	0.15
Grocery	Space Heat	0.83	27%	0%	5.96	2.22
Grocery	Vending Machines	1.00	100%	27%	0.05	0.05
Grocery	Ventilation and Circulation	1.00	100%	0%	4.35	4.27
Grocery	Water Heat GT 55 Gal	0.08	60%	11%	0.33	0.33
Grocery	Water Heat LE 55 Gal	0.92	60%	11%	0.34	0.33
Health	Computers	1.00	100%	60%	0.31	0.29
Health	Cooking	0.26	5%	0%	0.44	0.44
Health	Cooling Chillers	0.13	100%	3%	1.10	0.53
Health	Cooling DX Evap	0.75	100%	30%	1.51	0.80
Health	Fax	1.00	100%	6%	0.01	0.01
Health	Flat Screen Monitors	1.00	100%	78%	0.06	0.07
Health	Freezers	1.00	100%	0%	0.01	0.01
Health	Heat Pump	0.04	100%	6%	7.72	4.97
Health	Lighting Exterior	1.00	100%	0%	0.58	0.58
Health	Lighting Interior Fluorescent	1.00	100%	62%	5.20	.
Health	Lighting Interior HID	1.00	100%	60%	0.12	.
Health	Lighting Interior Other	1.00	100%	0%	0.27	4.72
Health	Lighting Interior Screw Base	1.00	100%	81%	1.53	.
Health	Other Plug Load	1.00	100%	0%	2.90	2.90
Health	Photo Copiers	1.00	100%	83%	0.03	0.03
Health	Printers	1.00	100%	70%	0.08	0.07
Health	Refrigeration	0.30	100%	0%	0.64	0.64
Health	Refrigerators	1.00	100%	0%	0.09	0.09

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Health	Servers	1.00	100%	4%	0.05	0.05
Health	Space Heat	0.91	21%	0%	9.26	6.62
Health	Vending Machines	1.00	100%	27%	0.07	0.07
Health	Ventilation and Circulation	1.00	100%	0%	6.42	5.50
Health	Water Heat GT 55 Gal	0.08	34%	11%	1.71	1.69
Health	Water Heat LE 55 Gal	0.87	34%	11%	1.75	1.69
Large Office	Computers	1.00	100%	60%	0.51	0.48
Large Office	Cooling Chillers	0.20	100%	3%	0.84	0.55
Large Office	Cooling DX Evap	0.16	100%	30%	1.78	1.18
Large Office	Fax	1.00	100%	6%	0.01	0.01
Large Office	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
Large Office	Freezers	1.00	100%	0%	0.01	0.01
Large Office	Heat Pump	0.08	100%	28%	6.64	3.26
Large Office	Lighting Exterior	1.00	100%	0%	0.51	0.51
Large Office	Lighting Interior Fluorescent	1.00	100%	0%	3.36	.
Large Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Large Office	Lighting Interior Other	1.00	100%	0%	0.04	3.02
Large Office	Lighting Interior Screw Base	1.00	100%	62%	0.50	.
Large Office	Other Plug Load	1.00	100%	0%	0.47	0.47
Large Office	Photo Copiers	1.00	100%	83%	0.05	0.05
Large Office	Printers	1.00	100%	70%	0.10	0.09
Large Office	Refrigerators	1.00	100%	0%	0.06	0.06
Large Office	Servers	1.00	100%	4%	0.08	0.08
Large Office	Space Heat	0.84	20%	0%	7.57	3.44
Large Office	Vending Machines	1.00	100%	27%	0.09	0.09
Large Office	Ventilation and Circulation	1.00	100%	0%	3.24	2.80
Large Office	Water Heat GT 55 Gal	0.07	30%	11%	0.48	0.51
Large Office	Water Heat LE 55 Gal	0.77	30%	11%	0.49	0.51
Large Retail	Computers	1.00	100%	60%	0.09	0.09
Large Retail	Cooling DX Evap	0.33	100%	30%	2.06	1.48
Large Retail	Fax	1.00	100%	6%	0.01	0.01
Large Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Large Retail	Freezers	1.00	100%	0%	0.00	0.00
Large Retail	Heat Pump	0.07	100%	3%	6.17	3.55
Large Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Large Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.82	.
Large Retail	Lighting Interior HID	1.00	100%	94%	0.96	.
Large Retail	Lighting Interior Other	1.00	100%	0%	0.24	7.01
Large Retail	Lighting Interior Screw Base	1.00	100%	40%	1.78	.
Large Retail	Other Plug Load	1.00	100%	0%	0.52	0.52
Large Retail	Photo Copiers	1.00	100%	83%	0.06	0.06
Large Retail	Printers	1.00	100%	70%	0.03	0.02
Large Retail	Refrigerators	1.00	100%	0%	0.04	0.04

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Large Retail	Space Heat	0.55	14%	0%	5.53	2.82
Large Retail	Vending Machines	1.00	100%	27%	0.19	0.19
Large Retail	Ventilation and Circulation	1.00	100%	0%	2.75	2.24
Large Retail	Water Heat GT 55 Gal	0.07	42%	11%	0.29	0.28
Large Retail	Water Heat LE 55 Gal	0.80	42%	11%	0.30	0.28
Lodging	Computers	1.00	100%	60%	0.20	0.19
Lodging	Cooking	0.60	1%	0%	0.72	0.72
Lodging	Cooling Chillers	0.15	100%	3%	1.87	0.98
Lodging	Cooling DX Evap	0.29	100%	30%	2.20	1.28
Lodging	Cooling Room	0.22	100%	3%	2.59	1.57
Lodging	Fax	1.00	100%	6%	0.00	0.00
Lodging	Flat Screen Monitors	1.00	100%	78%	0.04	0.05
Lodging	Freezers	1.00	100%	0%	0.01	0.01
Lodging	Heat Pump	0.15	100%	7%	9.08	5.54
Lodging	Lighting Exterior	1.00	100%	0%	0.66	0.66
Lodging	Lighting Interior Fluorescent	1.00	100%	3%	1.16	.
Lodging	Lighting Interior HID	1.00	100%	99%	0.04	.
Lodging	Lighting Interior Other	1.00	100%	0%	0.04	2.55
Lodging	Lighting Interior Screw Base	1.00	100%	51%	3.53	.
Lodging	Other Plug Load	1.00	100%	0%	0.52	0.52
Lodging	Photo Copiers	1.00	100%	83%	0.02	0.02
Lodging	Printers	1.00	100%	70%	0.02	0.01
Lodging	Refrigeration	0.11	100%	0%	1.17	1.17
Lodging	Refrigerators	1.00	100%	0%	0.10	0.10
Lodging	Space Heat	0.78	43%	0%	7.53	5.16
Lodging	Vending Machines	1.00	100%	27%	0.06	0.06
Lodging	Ventilation and Circulation	1.00	100%	0%	3.28	3.27
Lodging	Water Heat GT 55 Gal	0.08	34%	11%	1.77	1.75
Lodging	Water Heat LE 55 Gal	0.87	34%	11%	1.81	1.76
Miscellaneous	Computers	1.00	100%	60%	0.12	0.12
Miscellaneous	Cooking	0.31	1%	0%	0.30	0.30
Miscellaneous	Cooling Chillers	0.01	100%	3%	1.56	0.91
Miscellaneous	Cooling DX Evap	0.38	100%	32%	1.80	1.17
Miscellaneous	Fax	1.00	100%	6%	0.01	0.01
Miscellaneous	Flat Screen Monitors	1.00	100%	78%	0.03	0.03
Miscellaneous	Freezers	1.00	100%	0%	0.01	0.01
Miscellaneous	Heat Pump	0.02	100%	4%	6.61	3.39
Miscellaneous	Lighting Exterior	1.00	100%	0%	1.23	1.23
Miscellaneous	Lighting Interior Fluorescent	1.00	100%	0%	2.88	.
Miscellaneous	Lighting Interior HID	1.00	100%	97%	0.98	.
Miscellaneous	Lighting Interior Other	1.00	100%	0%	0.13	3.76
Miscellaneous	Lighting Interior Screw Base	1.00	100%	56%	0.79	.
Miscellaneous	Other Plug Load	1.00	100%	0%	1.25	1.25

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Miscellaneous	Photo Copiers	1.00	100%	83%	0.07	0.07
Miscellaneous	Printers	1.00	100%	70%	0.03	0.03
Miscellaneous	Refrigeration	0.11	100%	0%	0.81	0.81
Miscellaneous	Refrigerators	1.00	100%	0%	0.05	0.05
Miscellaneous	Servers	1.00	100%	4%	0.01	0.01
Miscellaneous	Space Heat	0.72	10%	0%	6.55	3.13
Miscellaneous	Vending Machines	1.00	100%	27%	0.12	0.12
Miscellaneous	Ventilation and Circulation	1.00	100%	0%	2.51	2.09
Miscellaneous	Water Heat GT 55 Gal	0.06	58%	11%	0.39	0.39
Miscellaneous	Water Heat LE 55 Gal	0.70	58%	11%	0.40	0.39
Restaurant	Computers	1.00	100%	60%	0.05	0.05
Restaurant	Cooking	0.81	25%	0%	10.44	10.44
Restaurant	Cooling DX Evap	0.70	100%	43%	3.31	1.91
Restaurant	Fax	1.00	100%	6%	0.06	0.06
Restaurant	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Restaurant	Freezers	1.00	100%	0%	0.03	0.03
Restaurant	Lighting Exterior	1.00	100%	0%	2.36	2.36
Restaurant	Lighting Interior Fluorescent	1.00	100%	0%	4.54	.
Restaurant	Lighting Interior HID	1.00	100%	100%	0.31	.
Restaurant	Lighting Interior Other	1.00	100%	0%	0.32	7.70
Restaurant	Lighting Interior Screw Base	1.00	100%	90%	3.92	.
Restaurant	Other Plug Load	1.00	100%	0%	0.82	0.82
Restaurant	Photo Copiers	1.00	100%	83%	0.28	0.28
Restaurant	Printers	1.00	100%	70%	0.01	0.01
Restaurant	Refrigeration	0.77	100%	0%	9.00	9.00
Restaurant	Refrigerators	1.00	100%	0%	0.31	0.31
Restaurant	Space Heat	0.93	10%	0%	4.39	1.73
Restaurant	Ventilation and Circulation	1.00	100%	0%	4.16	3.92
Restaurant	Water Heat GT 55 Gal	0.07	29%	11%	8.32	8.25
Restaurant	Water Heat LE 55 Gal	0.85	29%	11%	8.51	8.27
School	Computers	1.00	100%	60%	0.46	0.44
School	Cooking	0.60	28%	0%	0.36	0.36
School	Cooling Chillers	0.23	100%	3%	0.29	0.21
School	Cooling DX Evap	0.40	100%	30%	0.40	0.30
School	Fax	1.00	100%	6%	0.01	0.01
School	Flat Screen Monitors	1.00	100%	78%	0.10	0.11
School	Freezers	1.00	100%	0%	0.00	0.00
School	Lighting Exterior	1.00	100%	0%	0.76	0.76
School	Lighting Interior Fluorescent	1.00	100%	0%	3.08	.
School	Lighting Interior HID	1.00	100%	85%	0.32	.
School	Lighting Interior Other	1.00	100%	0%	0.02	3.08
School	Lighting Interior Screw Base	1.00	100%	48%	0.16	.
School	Other Plug Load	1.00	100%	0%	0.12	0.12

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
School	Photo Copiers	1.00	100%	83%	0.04	0.04
School	Printers	1.00	100%	70%	0.04	0.04
School	Refrigeration	0.35	100%	0%	0.42	0.42
School	Refrigerators	1.00	100%	0%	0.03	0.03
School	Servers	1.00	100%	4%	0.03	0.03
School	Space Heat	0.97	13%	0%	17.01	10.17
School	Vending Machines	1.00	100%	27%	0.09	0.09
School	Ventilation and Circulation	1.00	100%	0%	2.09	1.72
School	Water Heat GT 55 Gal	0.07	41%	11%	1.58	1.57
School	Water Heat LE 55 Gal	0.83	41%	11%	1.62	1.57
Small Office	Computers	1.00	100%	60%	0.51	0.48
Small Office	Cooling DX Evap	0.69	100%	23%	1.79	1.13
Small Office	Fax	1.00	100%	6%	0.01	0.01
Small Office	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
Small Office	Freezers	1.00	100%	0%	0.01	0.01
Small Office	Lighting Exterior	1.00	100%	0%	1.28	1.28
Small Office	Lighting Interior Fluorescent	1.00	100%	0%	3.36	.
Small Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Small Office	Lighting Interior Other	1.00	100%	0%	0.04	3.02
Small Office	Lighting Interior Screw Base	1.00	100%	73%	0.46	.
Small Office	Other Plug Load	1.00	100%	0%	1.53	1.53
Small Office	Photo Copiers	1.00	100%	83%	0.05	0.05
Small Office	Printers	1.00	100%	70%	0.10	0.09
Small Office	Refrigerators	1.00	100%	0%	0.06	0.06
Small Office	Servers	1.00	100%	4%	0.08	0.08
Small Office	Space Heat	0.93	28%	0%	7.57	3.44
Small Office	Vending Machines	1.00	100%	27%	0.09	0.09
Small Office	Ventilation and Circulation	1.00	100%	0%	2.26	1.95
Small Office	Water Heat GT 55 Gal	0.07	44%	11%	0.48	0.51
Small Office	Water Heat LE 55 Gal	0.83	44%	11%	0.49	0.51
Small Retail	Computers	1.00	100%	60%	0.09	0.09
Small Retail	Cooling DX Evap	0.52	100%	30%	1.97	1.35
Small Retail	Fax	1.00	100%	6%	0.01	0.01
Small Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Small Retail	Freezers	1.00	100%	0%	0.00	0.00
Small Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Small Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.82	.
Small Retail	Lighting Interior HID	1.00	100%	94%	0.96	.
Small Retail	Lighting Interior Other	1.00	100%	0%	0.24	7.01
Small Retail	Lighting Interior Screw Base	1.00	100%	98%	1.05	.
Small Retail	Other Plug Load	1.00	100%	0%	0.86	0.86
Small Retail	Photo Copiers	1.00	100%	83%	0.06	0.06
Small Retail	Printers	1.00	100%	70%	0.03	0.02

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Small Retail	Refrigerators	1.00	100%	0%	0.04	0.04
Small Retail	Space Heat	0.84	24%	0%	5.53	2.82
Small Retail	Vending Machines	1.00	100%	27%	0.19	0.19
Small Retail	Ventilation and Circulation	1.00	100%	0%	2.75	2.24
Small Retail	Water Heat GT 55 Gal	0.05	43%	11%	0.29	0.28
Small Retail	Water Heat LE 55 Gal	0.56	43%	11%	0.30	0.28
Warehouse	Computers	1.00	100%	60%	0.05	0.05
Warehouse	Cooling Chillers	0.04	100%	3%	0.44	0.26
Warehouse	Cooling DX Evap	0.24	100%	30%	0.51	0.35
Warehouse	Fax	1.00	100%	6%	0.01	0.01
Warehouse	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Warehouse	Freezers	1.00	100%	0%	0.00	0.00
Warehouse	Heat Pump	0.04	100%	3%	2.62	2.14
Warehouse	Lighting Exterior	1.00	100%	0%	0.28	0.28
Warehouse	Lighting Interior Fluorescent	1.00	100%	1%	1.49	.
Warehouse	Lighting Interior HID	1.00	100%	72%	1.18	.
Warehouse	Lighting Interior Other	1.00	100%	0%	0.01	2.75
Warehouse	Lighting Interior Screw Base	1.00	100%	51%	0.63	.
Warehouse	Other Plug Load	1.00	100%	0%	0.35	0.35
Warehouse	Photo Copiers	1.00	100%	83%	0.03	0.03
Warehouse	Printers	1.00	100%	70%	0.01	0.01
Warehouse	Refrigerators	1.00	100%	0%	0.02	0.02
Warehouse	Space Heat	0.59	16%	0%	4.07	3.21
Warehouse	Vending Machines	1.00	100%	27%	0.06	0.06
Warehouse	Ventilation and Circulation	1.00	100%	0%	0.96	0.70
Warehouse	Water Heat GT 55 Gal	0.07	52%	11%	0.24	0.24
Warehouse	Water Heat LE 55 Gal	0.81	52%	11%	0.25	0.24

**Table C-1.10. Utah Commercial Saturations, Fuel Shares,
Share Above Standard, and EUIs**

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Grocery	Computers	1.00	100%	60%	0.04	0.04
Grocery	Cooking	0.56	21%	0%	2.17	2.17
Grocery	Cooling DX Evap	0.73	100%	29%	4.36	2.81
Grocery	Fax	1.00	100%	6%	0.01	0.01
Grocery	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Grocery	Freezers	1.00	100%	0%	0.02	0.02
Grocery	Heat Pump	0.05	100%	3%	7.86	4.37
Grocery	Lighting Exterior	1.00	100%	0%	1.05	1.05
Grocery	Lighting Interior Fluorescent	1.00	100%	7%	7.70	.
Grocery	Lighting Interior HID	1.00	100%	94%	1.11	.
Grocery	Lighting Interior Other	1.00	100%	0%	0.16	8.41
Grocery	Lighting Interior Screw Base	1.00	100%	67%	1.11	.
Grocery	Other Plug Load	1.00	100%	0%	0.76	0.76
Grocery	Photo Copiers	1.00	100%	83%	0.05	0.05
Grocery	Printers	1.00	100%	70%	0.01	0.01
Grocery	Refrigeration	0.72	100%	0%	22.36	22.36
Grocery	Refrigerators	1.00	100%	0%	0.15	0.15
Grocery	Space Heat	0.83	24%	0%	4.05	1.50
Grocery	Vending Machines	1.00	100%	27%	0.05	0.05
Grocery	Ventilation and Circulation	1.00	100%	0%	4.01	3.88
Grocery	Water Heat GT 55 Gal	0.08	27%	11%	0.28	0.27
Grocery	Water Heat LE 55 Gal	0.92	27%	11%	0.29	0.27
Health	Computers	1.00	100%	60%	0.31	0.29
Health	Cooking	0.26	5%	0%	0.44	0.44
Health	Cooling Chillers	0.13	100%	3%	1.74	0.89
Health	Cooling DX Evap	0.75	100%	3%	2.56	1.43
Health	Fax	1.00	100%	6%	0.01	0.01
Health	Flat Screen Monitors	1.00	100%	78%	0.06	0.07
Health	Freezers	1.00	100%	0%	0.01	0.01
Health	Heat Pump	0.04	100%	6%	5.79	3.73
Health	Lighting Exterior	1.00	100%	0%	0.58	0.58
Health	Lighting Interior Fluorescent	1.00	100%	62%	5.20	.
Health	Lighting Interior HID	1.00	100%	60%	0.12	.
Health	Lighting Interior Other	1.00	100%	0%	0.27	4.72
Health	Lighting Interior Screw Base	1.00	100%	56%	1.85	.
Health	Other Plug Load	1.00	100%	0%	2.73	2.73
Health	Photo Copiers	1.00	100%	83%	0.03	0.03
Health	Printers	1.00	100%	70%	0.08	0.07
Health	Refrigeration	0.30	100%	0%	0.64	0.64
Health	Refrigerators	1.00	100%	0%	0.09	0.09

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Health	Servers	1.00	100%	4%	0.05	0.05
Health	Space Heat	0.91	20%	0%	5.43	4.15
Health	Vending Machines	1.00	100%	27%	0.07	0.07
Health	Ventilation and Circulation	1.00	100%	0%	6.14	5.26
Health	Water Heat GT 55 Gal	0.08	11%	11%	1.35	1.34
Health	Water Heat LE 55 Gal	0.87	11%	11%	1.38	1.34
Large Office	Computers	1.00	100%	60%	0.51	0.48
Large Office	Cooling Chillers	0.20	100%	3%	1.95	1.17
Large Office	Cooling DX Evap	0.16	100%	22%	2.98	1.94
Large Office	Fax	1.00	100%	6%	0.01	0.01
Large Office	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
Large Office	Freezers	1.00	100%	0%	0.01	0.01
Large Office	Heat Pump	0.08	100%	28%	5.31	2.70
Large Office	Lighting Exterior	1.00	100%	0%	0.51	0.51
Large Office	Lighting Interior Fluorescent	1.00	100%	0%	3.36	.
Large Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Large Office	Lighting Interior Other	1.00	100%	0%	0.04	3.02
Large Office	Lighting Interior Screw Base	1.00	100%	90%	0.36	.
Large Office	Other Plug Load	1.00	100%	0%	0.47	0.47
Large Office	Photo Copiers	1.00	100%	83%	0.05	0.05
Large Office	Printers	1.00	100%	70%	0.10	0.09
Large Office	Refrigerators	1.00	100%	0%	0.06	0.06
Large Office	Servers	1.00	100%	4%	0.08	0.08
Large Office	Space Heat	0.84	20%	0%	2.63	0.82
Large Office	Vending Machines	1.00	100%	27%	0.09	0.09
Large Office	Ventilation and Circulation	1.00	100%	0%	3.24	2.90
Large Office	Water Heat GT 55 Gal	0.07	30%	11%	0.41	0.44
Large Office	Water Heat LE 55 Gal	0.77	30%	11%	0.42	0.44
Large Retail	Computers	1.00	100%	60%	0.09	0.09
Large Retail	Cooling DX Evap	0.33	100%	22%	3.11	2.24
Large Retail	Fax	1.00	100%	6%	0.01	0.01
Large Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Large Retail	Freezers	1.00	100%	0%	0.00	0.00
Large Retail	Heat Pump	0.07	100%	3%	6.45	3.79
Large Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Large Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.82	.
Large Retail	Lighting Interior HID	1.00	100%	94%	0.96	.
Large Retail	Lighting Interior Other	1.00	100%	0%	0.24	7.01
Large Retail	Lighting Interior Screw Base	1.00	100%	40%	1.78	.
Large Retail	Other Plug Load	1.00	100%	0%	0.52	0.52
Large Retail	Photo Copiers	1.00	100%	83%	0.06	0.06
Large Retail	Printers	1.00	100%	70%	0.03	0.02
Large Retail	Refrigerators	1.00	100%	0%	0.04	0.04

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Large Retail	Space Heat	0.55	14%	0%	3.21	1.46
Large Retail	Vending Machines	1.00	100%	27%	0.19	0.19
Large Retail	Ventilation and Circulation	1.00	100%	0%	2.90	2.29
Large Retail	Water Heat GT 55 Gal	0.07	42%	11%	0.26	0.26
Large Retail	Water Heat LE 55 Gal	0.80	42%	11%	0.27	0.26
Lodging	Computers	1.00	100%	60%	0.20	0.19
Lodging	Cooking	0.60	3%	0%	0.72	0.72
Lodging	Cooling Chillers	0.15	100%	3%	1.99	1.10
Lodging	Cooling DX Evap	0.29	100%	22%	2.20	1.35
Lodging	Cooling Room	0.22	100%	3%	2.46	1.57
Lodging	Fax	1.00	100%	6%	0.00	0.00
Lodging	Flat Screen Monitors	1.00	100%	78%	0.04	0.05
Lodging	Freezers	1.00	100%	0%	0.01	0.01
Lodging	Heat Pump	0.15	100%	7%	4.89	2.87
Lodging	Lighting Exterior	1.00	100%	0%	0.66	0.66
Lodging	Lighting Interior Fluorescent	1.00	100%	3%	1.16	.
Lodging	Lighting Interior HID	1.00	100%	99%	0.04	.
Lodging	Lighting Interior Other	1.00	100%	0%	0.04	2.55
Lodging	Lighting Interior Screw Base	1.00	100%	73%	3.16	.
Lodging	Other Plug Load	1.00	100%	0%	0.41	0.41
Lodging	Photo Copiers	1.00	100%	83%	0.02	0.02
Lodging	Printers	1.00	100%	70%	0.02	0.01
Lodging	Refrigeration	0.11	100%	0%	1.81	1.81
Lodging	Refrigerators	1.00	100%	0%	0.10	0.10
Lodging	Space Heat	0.78	38%	0%	3.84	2.22
Lodging	Vending Machines	1.00	100%	27%	0.06	0.06
Lodging	Ventilation and Circulation	1.00	100%	0%	2.57	2.55
Lodging	Water Heat GT 55 Gal	0.08	17%	11%	1.63	1.62
Lodging	Water Heat LE 55 Gal	0.87	17%	11%	1.67	1.62
Miscellaneous	Computers	1.00	100%	60%	0.12	0.12
Miscellaneous	Cooking	0.31	1%	0%	0.30	0.30
Miscellaneous	Cooling Chillers	0.01	100%	3%	2.34	1.35
Miscellaneous	Cooling DX Evap	0.38	100%	26%	2.83	1.81
Miscellaneous	Fax	1.00	100%	6%	0.01	0.01
Miscellaneous	Flat Screen Monitors	1.00	100%	78%	0.03	0.03
Miscellaneous	Freezers	1.00	100%	0%	0.01	0.01
Miscellaneous	Heat Pump	0.02	100%	4%	5.83	2.96
Miscellaneous	Lighting Exterior	1.00	100%	0%	1.23	1.23
Miscellaneous	Lighting Interior Fluorescent	1.00	100%	0%	2.88	.
Miscellaneous	Lighting Interior HID	1.00	100%	97%	0.98	.
Miscellaneous	Lighting Interior Other	1.00	100%	0%	0.13	3.76
Miscellaneous	Lighting Interior Screw Base	1.00	100%	54%	0.79	.
Miscellaneous	Other Plug Load	1.00	100%	0%	0.79	0.79

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Miscellaneous	Photo Copiers	1.00	100%	83%	0.07	0.07
Miscellaneous	Printers	1.00	100%	70%	0.03	0.03
Miscellaneous	Refrigeration	0.11	100%	0%	0.81	0.81
Miscellaneous	Refrigerators	1.00	100%	0%	0.05	0.05
Miscellaneous	Servers	1.00	100%	4%	0.01	0.01
Miscellaneous	Space Heat	0.72	23%	0%	2.92	1.14
Miscellaneous	Vending Machines	1.00	100%	27%	0.12	0.12
Miscellaneous	Ventilation and Circulation	1.00	100%	0%	2.56	2.14
Miscellaneous	Water Heat GT 55 Gal	0.06	26%	11%	0.34	0.35
Miscellaneous	Water Heat LE 55 Gal	0.70	26%	11%	0.35	0.35
Restaurant	Computers	1.00	100%	60%	0.05	0.05
Restaurant	Cooking	0.81	6%	0%	10.44	10.44
Restaurant	Cooling DX Evap	0.70	100%	19%	5.42	3.10
Restaurant	Fax	1.00	100%	6%	0.06	0.06
Restaurant	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Restaurant	Freezers	1.00	100%	0%	0.03	0.03
Restaurant	Lighting Exterior	1.00	100%	0%	2.36	2.36
Restaurant	Lighting Interior Fluorescent	1.00	100%	0%	4.54	.
Restaurant	Lighting Interior HID	1.00	100%	100%	0.31	.
Restaurant	Lighting Interior Other	1.00	100%	0%	0.32	7.70
Restaurant	Lighting Interior Screw Base	1.00	100%	67%	5.18	.
Restaurant	Other Plug Load	1.00	100%	0%	0.80	0.80
Restaurant	Photo Copiers	1.00	100%	83%	0.28	0.28
Restaurant	Printers	1.00	100%	70%	0.01	0.01
Restaurant	Refrigeration	0.77	100%	0%	9.00	9.00
Restaurant	Refrigerators	1.00	100%	0%	0.31	0.31
Restaurant	Space Heat	0.93	29%	0%	3.74	1.75
Restaurant	Ventilation and Circulation	1.00	100%	0%	4.17	4.13
Restaurant	Water Heat GT 55 Gal	0.07	17%	11%	8.10	8.03
Restaurant	Water Heat LE 55 Gal	0.85	17%	11%	8.29	8.05
School	Computers	1.00	100%	60%	0.46	0.44
School	Cooking	0.60	23%	0%	0.36	0.36
School	Cooling Chillers	0.23	100%	3%	0.58	0.40
School	Cooling DX Evap	0.40	100%	22%	0.74	0.53
School	Fax	1.00	100%	6%	0.01	0.01
School	Flat Screen Monitors	1.00	100%	78%	0.10	0.11
School	Freezers	1.00	100%	0%	0.00	0.00
School	Lighting Exterior	1.00	100%	0%	0.76	0.76
School	Lighting Interior Fluorescent	1.00	100%	0%	3.08	.
School	Lighting Interior HID	1.00	100%	85%	0.32	.
School	Lighting Interior Other	1.00	100%	0%	0.02	3.08
School	Lighting Interior Screw Base	1.00	100%	71%	0.15	.
School	Other Plug Load	1.00	100%	0%	0.12	0.12

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
School	Photo Copiers	1.00	100%	83%	0.04	0.04
School	Printers	1.00	100%	70%	0.04	0.04
School	Refrigeration	0.35	100%	0%	0.42	0.42
School	Refrigerators	1.00	100%	0%	0.03	0.03
School	Servers	1.00	100%	4%	0.03	0.03
School	Space Heat	0.97	0%	0%	10.87	6.37
School	Vending Machines	1.00	100%	27%	0.09	0.09
School	Ventilation and Circulation	1.00	100%	0%	1.90	1.51
School	Water Heat GT 55 Gal	0.07	18%	11%	1.41	1.40
School	Water Heat LE 55 Gal	0.83	18%	11%	1.44	1.40
Small Office	Computers	1.00	100%	60%	0.51	0.48
Small Office	Cooling DX Evap	0.69	100%	4%	3.21	1.96
Small Office	Fax	1.00	100%	6%	0.01	0.01
Small Office	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
Small Office	Freezers	1.00	100%	0%	0.01	0.01
Small Office	Lighting Exterior	1.00	100%	0%	1.28	1.28
Small Office	Lighting Interior Fluorescent	1.00	100%	0%	3.36	.
Small Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Small Office	Lighting Interior Other	1.00	100%	0%	0.04	3.02
Small Office	Lighting Interior Screw Base	1.00	100%	69%	0.47	.
Small Office	Other Plug Load	1.00	100%	0%	2.31	2.31
Small Office	Photo Copiers	1.00	100%	83%	0.05	0.05
Small Office	Printers	1.00	100%	70%	0.10	0.09
Small Office	Refrigerators	1.00	100%	0%	0.06	0.06
Small Office	Servers	1.00	100%	4%	0.08	0.08
Small Office	Space Heat	0.93	26%	0%	2.63	0.82
Small Office	Vending Machines	1.00	100%	27%	0.09	0.09
Small Office	Ventilation and Circulation	1.00	100%	0%	2.21	1.98
Small Office	Water Heat GT 55 Gal	0.07	19%	11%	0.41	0.44
Small Office	Water Heat LE 55 Gal	0.83	19%	11%	0.42	0.44
Small Retail	Computers	1.00	100%	60%	0.09	0.09
Small Retail	Cooling DX Evap	0.52	100%	55%	2.30	1.60
Small Retail	Fax	1.00	100%	6%	0.01	0.01
Small Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Small Retail	Freezers	1.00	100%	0%	0.00	0.00
Small Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Small Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.82	.
Small Retail	Lighting Interior HID	1.00	100%	94%	0.96	.
Small Retail	Lighting Interior Other	1.00	100%	0%	0.24	7.01
Small Retail	Lighting Interior Screw Base	1.00	100%	57%	1.78	.
Small Retail	Other Plug Load	1.00	100%	0%	1.06	1.06
Small Retail	Photo Copiers	1.00	100%	83%	0.06	0.06
Small Retail	Printers	1.00	100%	70%	0.03	0.02

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Small Retail	Refrigerators	1.00	100%	0%	0.04	0.04
Small Retail	Space Heat	0.84	9%	0%	3.21	1.46
Small Retail	Vending Machines	1.00	100%	27%	0.19	0.19
Small Retail	Ventilation and Circulation	1.00	100%	0%	2.90	2.29
Small Retail	Water Heat GT 55 Gal	0.05	41%	11%	0.26	0.26
Small Retail	Water Heat LE 55 Gal	0.56	41%	11%	0.27	0.26
Warehouse	Computers	1.00	100%	60%	0.05	0.05
Warehouse	Cooling Chillers	0.04	100%	3%	0.69	0.43
Warehouse	Cooling DX Evap	0.24	100%	22%	0.86	0.59
Warehouse	Fax	1.00	100%	6%	0.01	0.01
Warehouse	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Warehouse	Freezers	1.00	100%	0%	0.00	0.00
Warehouse	Heat Pump	0.04	100%	3%	2.21	1.72
Warehouse	Lighting Exterior	1.00	100%	0%	0.28	0.28
Warehouse	Lighting Interior Fluorescent	1.00	100%	1%	1.49	.
Warehouse	Lighting Interior HID	1.00	100%	72%	1.18	.
Warehouse	Lighting Interior Other	1.00	100%	0%	0.01	2.75
Warehouse	Lighting Interior Screw Base	1.00	100%	65%	0.60	.
Warehouse	Other Plug Load	1.00	100%	0%	0.35	0.35
Warehouse	Photo Copiers	1.00	100%	83%	0.03	0.03
Warehouse	Printers	1.00	100%	70%	0.01	0.01
Warehouse	Refrigerators	1.00	100%	0%	0.02	0.02
Warehouse	Space Heat	0.59	16%	0%	2.18	1.74
Warehouse	Vending Machines	1.00	100%	27%	0.06	0.06
Warehouse	Ventilation and Circulation	1.00	100%	0%	0.84	0.66
Warehouse	Water Heat GT 55 Gal	0.07	52%	11%	0.21	0.21
Warehouse	Water Heat LE 55 Gal	0.81	52%	11%	0.21	0.21

Table C-1.11. Washington Commercial Saturations, Fuel Shares, Share Above Standard, and EUIs

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Grocery	Computers	1.00	100%	60%	0.05	0.05
Grocery	Cooking	0.59	22%	0%	2.17	2.17
Grocery	Cooling DX Evap	0.56	100%	11%	4.01	2.35
Grocery	Fax	1.00	100%	6%	0.02	0.02
Grocery	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Grocery	Freezers	1.00	100%	100%	0.00	0.00
Grocery	Heat Pump	0.07	100%	3%	7.11	3.61
Grocery	Lighting Exterior	1.00	100%	0%	1.05	1.05
Grocery	Lighting Interior Fluorescent	1.00	100%	7%	7.29	.
Grocery	Lighting Interior HID	1.00	100%	94%	1.07	.
Grocery	Lighting Interior Other	1.00	100%	0%	0.16	7.46
Grocery	Lighting Interior Screw Base	1.00	100%	100%	0.62	.
Grocery	Other Plug Load	1.00	100%	0%	0.94	0.94
Grocery	Photo Copiers	1.00	100%	83%	0.11	0.11
Grocery	Printers	1.00	100%	70%	0.02	0.02
Grocery	Refrigeration	0.72	100%	0%	22.21	22.21
Grocery	Refrigerators	1.00	100%	100%	0.05	0.05
Grocery	Space Heat	0.82	27%	0%	4.53	2.72
Grocery	Vending Machines	1.00	100%	27%	0.19	0.19
Grocery	Ventilation and Circulation	1.00	100%	0%	3.99	3.89
Grocery	Water Heat GT 55 Gal	0.08	60%	100%	0.13	0.13
Grocery	Water Heat LE 55 Gal	0.90	60%	100%	0.29	0.29
Health	Computers	1.00	100%	60%	0.35	0.33
Health	Cooking	0.29	12%	0%	0.44	0.44
Health	Cooling Chillers	0.06	100%	3%	1.56	0.70
Health	Cooling DX Evap	0.76	100%	11%	2.15	1.05
Health	Fax	1.00	100%	6%	0.01	0.00
Health	Flat Screen Monitors	1.00	100%	78%	0.07	0.08
Health	Freezers	1.00	100%	100%	0.01	0.01
Health	Heat Pump	0.06	100%	6%	5.38	2.96
Health	Lighting Exterior	1.00	100%	0%	0.58	0.58
Health	Lighting Interior Fluorescent	1.00	100%	62%	5.20	.
Health	Lighting Interior HID	1.00	100%	60%	0.12	.
Health	Lighting Interior Other	1.00	100%	0%	0.27	4.72
Health	Lighting Interior Screw Base	1.00	100%	60%	1.82	.
Health	Other Plug Load	1.00	100%	0%	3.49	3.49
Health	Photo Copiers	1.00	100%	83%	0.02	0.02
Health	Printers	1.00	100%	70%	0.08	0.07
Health	Refrigeration	0.35	100%	0%	0.65	0.65
Health	Refrigerators	1.00	100%	100%	0.09	0.09

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Health	Servers	1.00	100%	4%	0.06	0.06
Health	Space Heat	0.94	19%	0%	5.43	3.39
Health	Vending Machines	1.00	100%	27%	0.05	0.05
Health	Ventilation and Circulation	1.00	100%	0%	6.01	5.03
Health	Water Heat GT 55 Gal	0.07	50%	100%	0.65	0.65
Health	Water Heat LE 55 Gal	0.76	50%	100%	1.39	1.39
Large Office	Computers	1.00	100%	60%	0.63	0.60
Large Office	Cooling Chillers	0.20	100%	3%	1.35	0.83
Large Office	Cooling DX Evap	0.16	100%	11%	2.22	1.48
Large Office	Fax	1.00	100%	6%	0.01	0.01
Large Office	Flat Screen Monitors	1.00	100%	78%	0.13	0.14
Large Office	Freezers	1.00	100%	100%	0.00	0.00
Large Office	Heat Pump	0.08	100%	28%	4.84	2.50
Large Office	Lighting Exterior	1.00	100%	0%	0.51	0.51
Large Office	Lighting Interior Fluorescent	1.00	100%	0%	3.22	.
Large Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Large Office	Lighting Interior Other	1.00	100%	0%	0.04	2.74
Large Office	Lighting Interior Screw Base	1.00	100%	32%	0.48	.
Large Office	Other Plug Load	1.00	100%	0%	0.31	0.31
Large Office	Photo Copiers	1.00	100%	83%	0.03	0.03
Large Office	Printers	1.00	100%	70%	0.11	0.09
Large Office	Refrigerators	1.00	100%	100%	0.04	0.04
Large Office	Servers	1.00	100%	4%	0.10	0.10
Large Office	Space Heat	0.84	20%	0%	5.12	2.45
Large Office	Vending Machines	1.00	100%	27%	0.09	0.09
Large Office	Ventilation and Circulation	1.00	100%	0%	3.24	2.84
Large Office	Water Heat GT 55 Gal	0.07	30%	100%	0.21	0.21
Large Office	Water Heat LE 55 Gal	0.77	30%	100%	0.45	0.45
Large Retail	Computers	1.00	100%	60%	0.08	0.08
Large Retail	Cooling DX Evap	0.33	100%	11%	2.71	1.91
Large Retail	Fax	1.00	100%	6%	0.01	0.01
Large Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Large Retail	Freezers	1.00	100%	100%	0.00	0.00
Large Retail	Heat Pump	0.07	100%	3%	4.86	3.05
Large Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Large Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.37	.
Large Retail	Lighting Interior HID	1.00	100%	94%	0.91	.
Large Retail	Lighting Interior Other	1.00	100%	0%	0.24	6.22
Large Retail	Lighting Interior Screw Base	1.00	100%	40%	1.68	.
Large Retail	Other Plug Load	1.00	100%	0%	0.62	0.62
Large Retail	Photo Copiers	1.00	100%	83%	0.03	0.03
Large Retail	Printers	1.00	100%	70%	0.03	0.02
Large Retail	Refrigerators	1.00	100%	100%	0.01	0.01

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Large Retail	Space Heat	0.55	14%	0%	3.59	2.02
Large Retail	Vending Machines	1.00	100%	27%	0.08	0.07
Large Retail	Ventilation and Circulation	1.00	100%	0%	2.95	2.43
Large Retail	Water Heat GT 55 Gal	0.07	42%	100%	0.13	0.13
Large Retail	Water Heat LE 55 Gal	0.80	42%	100%	0.29	0.28
Lodging	Computers	1.00	100%	60%	0.08	0.07
Lodging	Cooking	0.62	1%	0%	0.72	0.72
Lodging	Cooling Chillers	0.05	100%	3%	1.87	1.05
Lodging	Cooling DX Evap	0.21	100%	11%	2.18	1.36
Lodging	Cooling Room	0.20	100%	3%	2.26	1.48
Lodging	Fax	1.00	100%	6%	0.00	0.00
Lodging	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Lodging	Freezers	1.00	100%	100%	0.02	0.02
Lodging	Heat Pump	0.13	100%	7%	5.88	3.30
Lodging	Lighting Exterior	1.00	100%	0%	0.66	0.66
Lodging	Lighting Interior Fluorescent	1.00	100%	3%	1.16	.
Lodging	Lighting Interior HID	1.00	100%	99%	0.04	.
Lodging	Lighting Interior Other	1.00	100%	0%	0.04	2.55
Lodging	Lighting Interior Screw Base	1.00	100%	65%	3.37	.
Lodging	Other Plug Load	1.00	100%	0%	0.80	0.80
Lodging	Photo Copiers	1.00	100%	83%	0.01	0.01
Lodging	Printers	1.00	100%	70%	0.03	0.02
Lodging	Refrigeration	0.11	100%	0%	1.15	1.15
Lodging	Refrigerators	1.00	100%	100%	0.17	0.17
Lodging	Space Heat	0.84	43%	0%	6.22	3.54
Lodging	Vending Machines	1.00	100%	27%	0.09	0.09
Lodging	Ventilation and Circulation	1.00	100%	0%	2.51	2.47
Lodging	Water Heat GT 55 Gal	0.08	34%	100%	0.78	0.78
Lodging	Water Heat LE 55 Gal	0.89	34%	100%	1.67	1.67
Miscellaneous	Computers	1.00	100%	60%	0.15	0.15
Miscellaneous	Cooking	0.24	2%	0%	0.30	0.30
Miscellaneous	Cooling Chillers	0.02	100%	3%	1.76	1.01
Miscellaneous	Cooling DX Evap	0.23	100%	7%	2.41	1.52
Miscellaneous	Cooling Room	0.02	100%	3%	2.44	1.61
Miscellaneous	Fax	1.00	100%	6%	0.02	0.02
Miscellaneous	Flat Screen Monitors	1.00	100%	78%	0.03	0.04
Miscellaneous	Freezers	1.00	100%	100%	0.00	0.00
Miscellaneous	Heat Pump	0.05	100%	4%	5.03	2.74
Miscellaneous	Lighting Exterior	1.00	100%	0%	1.23	1.23
Miscellaneous	Lighting Interior Fluorescent	1.00	100%	0%	2.69	.
Miscellaneous	Lighting Interior HID	1.00	100%	97%	0.94	.
Miscellaneous	Lighting Interior Other	1.00	100%	0%	0.13	3.42
Miscellaneous	Lighting Interior Screw Base	1.00	100%	69%	0.71	.

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Miscellaneous	Other Plug Load	1.00	100%	0%	0.53	0.53
Miscellaneous	Photo Copiers	1.00	100%	83%	0.07	0.07
Miscellaneous	Printers	1.00	100%	70%	0.04	0.03
Miscellaneous	Refrigeration	0.14	100%	0%	0.87	0.87
Miscellaneous	Refrigerators	1.00	100%	100%	0.04	0.04
Miscellaneous	Servers	1.00	100%	4%	0.53	0.52
Miscellaneous	Space Heat	0.84	43%	0%	4.35	2.23
Miscellaneous	Vending Machines	1.00	100%	27%	0.08	0.08
Miscellaneous	Ventilation and Circulation	1.00	100%	0%	2.52	2.13
Miscellaneous	Water Heat GT 55 Gal	0.07	81%	100%	0.17	0.17
Miscellaneous	Water Heat LE 55 Gal	0.76	81%	100%	0.37	0.37
Restaurant	Computers	1.00	100%	60%	0.13	0.13
Restaurant	Cooking	0.72	14%	0%	10.44	10.44
Restaurant	Cooling DX Evap	0.72	100%	15%	4.21	2.45
Restaurant	Fax	1.00	100%	6%	0.02	0.02
Restaurant	Flat Screen Monitors	1.00	100%	78%	0.03	0.03
Restaurant	Freezers	1.00	100%	100%	0.00	0.00
Restaurant	Heat Pump	0.03	100%	3%	7.30	3.98
Restaurant	Lighting Exterior	1.00	100%	0%	2.36	2.36
Restaurant	Lighting Interior Fluorescent	1.00	100%	0%	3.71	.
Restaurant	Lighting Interior HID	1.00	100%	100%	0.26	.
Restaurant	Lighting Interior Other	1.00	100%	0%	0.32	5.78
Restaurant	Lighting Interior Screw Base	1.00	100%	64%	4.47	.
Restaurant	Other Plug Load	1.00	100%	0%	1.22	1.22
Restaurant	Photo Copiers	1.00	100%	83%	0.10	0.11
Restaurant	Printers	1.00	100%	70%	0.04	0.03
Restaurant	Refrigeration	0.79	100%	0%	9.70	9.70
Restaurant	Refrigerators	1.00	100%	100%	0.04	0.04
Restaurant	Space Heat	0.86	54%	0%	4.18	2.04
Restaurant	Ventilation and Circulation	1.00	100%	0%	4.33	4.05
Restaurant	Water Heat GT 55 Gal	0.07	50%	100%	3.85	3.85
Restaurant	Water Heat LE 55 Gal	0.85	50%	100%	8.23	8.23
School	Computers	1.00	100%	60%	0.51	0.48
School	Cooking	0.54	28%	0%	0.36	0.36
School	Cooling Chillers	0.06	100%	3%	0.38	0.28
School	Cooling DX Evap	0.30	100%	11%	0.59	0.46
School	Fax	1.00	100%	6%	0.01	0.01
School	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
School	Freezers	1.00	100%	100%	0.00	0.00
School	Heat Pump	0.05	100%	3%	5.63	2.50
School	Lighting Exterior	1.00	100%	0%	0.76	0.76
School	Lighting Interior Fluorescent	1.00	100%	0%	2.84	.
School	Lighting Interior HID	1.00	100%	85%	0.30	.

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
School	Lighting Interior Other	1.00	100%	0%	0.02	2.57
School	Lighting Interior Screw Base	1.00	100%	98%	0.09	.
School	Other Plug Load	1.00	100%	0%	0.05	0.05
School	Photo Copiers	1.00	100%	83%	0.06	0.07
School	Printers	1.00	100%	70%	0.09	0.07
School	Refrigeration	0.42	100%	0%	0.42	0.42
School	Refrigerators	1.00	100%	100%	0.04	0.04
School	Servers	1.00	100%	4%	0.03	0.03
School	Space Heat	0.92	13%	0%	8.52	3.70
School	Vending Machines	1.00	100%	27%	0.08	0.08
School	Ventilation and Circulation	1.00	100%	0%	1.57	1.19
School	Water Heat GT 55 Gal	0.07	41%	100%	0.67	0.67
School	Water Heat LE 55 Gal	0.86	41%	100%	1.43	1.43
Small Office	Computers	1.00	100%	60%	0.63	0.60
Small Office	Cooling DX Evap	0.61	100%	6%	2.17	1.36
Small Office	Fax	1.00	100%	6%	0.01	0.01
Small Office	Flat Screen Monitors	1.00	100%	78%	0.13	0.14
Small Office	Freezers	1.00	100%	100%	0.00	0.00
Small Office	Heat Pump	0.11	100%	28%	4.99	2.51
Small Office	Lighting Exterior	1.00	100%	0%	1.28	1.28
Small Office	Lighting Interior Fluorescent	1.00	100%	0%	3.22	.
Small Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Small Office	Lighting Interior Other	1.00	100%	0%	0.04	2.74
Small Office	Lighting Interior Screw Base	1.00	100%	54%	0.50	.
Small Office	Other Plug Load	1.00	100%	0%	1.79	1.79
Small Office	Photo Copiers	1.00	100%	83%	0.03	0.03
Small Office	Printers	1.00	100%	70%	0.11	0.09
Small Office	Refrigerators	1.00	100%	100%	0.04	0.04
Small Office	Servers	1.00	100%	4%	0.10	0.10
Small Office	Space Heat	0.80	30%	0%	5.12	2.45
Small Office	Vending Machines	1.00	100%	27%	0.09	0.09
Small Office	Ventilation and Circulation	1.00	100%	0%	2.09	1.83
Small Office	Water Heat GT 55 Gal	0.07	74%	100%	0.21	0.21
Small Office	Water Heat LE 55 Gal	0.85	74%	100%	0.45	0.45
Small Retail	Computers	1.00	100%	60%	0.08	0.08
Small Retail	Cooling DX Evap	0.27	100%	30%	2.27	1.52
Small Retail	Fax	1.00	100%	6%	0.01	0.01
Small Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Small Retail	Freezers	1.00	100%	100%	0.00	0.00
Small Retail	Heat Pump	0.02	100%	3%	4.84	2.92
Small Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Small Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.37	.
Small Retail	Lighting Interior HID	1.00	100%	94%	0.91	.

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Small Retail	Lighting Interior Other	1.00	100%	0%	0.24	6.22
Small Retail	Lighting Interior Screw Base	1.00	100%	54%	1.69	.
Small Retail	Other Plug Load	1.00	100%	0%	1.09	1.09
Small Retail	Photo Copiers	1.00	100%	83%	0.03	0.03
Small Retail	Printers	1.00	100%	70%	0.03	0.02
Small Retail	Refrigerators	1.00	100%	100%	0.01	0.01
Small Retail	Space Heat	0.73	32%	0%	3.59	2.02
Small Retail	Vending Machines	1.00	100%	27%	0.08	0.07
Small Retail	Ventilation and Circulation	1.00	100%	0%	2.95	2.43
Small Retail	Water Heat GT 55 Gal	0.06	87%	100%	0.13	0.13
Small Retail	Water Heat LE 55 Gal	0.72	87%	100%	0.29	0.28
Warehouse	Computers	1.00	100%	60%	0.10	0.10
Warehouse	Cooling Chillers	0.04	100%	3%	0.32	0.22
Warehouse	Cooling DX Evap	0.24	100%	11%	0.42	0.32
Warehouse	Fax	1.00	100%	6%	0.01	0.01
Warehouse	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Warehouse	Freezers	1.00	100%	100%	0.00	0.00
Warehouse	Heat Pump	0.04	100%	3%	1.05	0.91
Warehouse	Lighting Exterior	1.00	100%	0%	0.28	0.28
Warehouse	Lighting Interior Fluorescent	1.00	100%	1%	1.15	.
Warehouse	Lighting Interior HID	1.00	100%	72%	0.99	.
Warehouse	Lighting Interior Other	1.00	100%	0%	0.01	1.72
Warehouse	Lighting Interior Screw Base	1.00	100%	51%	0.53	.
Warehouse	Other Plug Load	1.00	100%	0%	0.23	0.23
Warehouse	Photo Copiers	1.00	100%	83%	0.04	0.04
Warehouse	Printers	1.00	100%	70%	0.02	0.02
Warehouse	Refrigerators	1.00	100%	100%	0.01	0.01
Warehouse	Space Heat	0.59	16%	0%	2.11	1.75
Warehouse	Vending Machines	1.00	100%	27%	0.03	0.03
Warehouse	Ventilation and Circulation	1.00	100%	0%	0.51	0.50
Warehouse	Water Heat GT 55 Gal	0.07	52%	100%	0.09	0.09
Warehouse	Water Heat LE 55 Gal	0.81	52%	100%	0.20	0.20
Warehouse Controlled Atmosphere	Lighting Exterior	1.00	100%	0%	0.35	0.35
Warehouse Controlled Atmosphere	Lighting Interior HID	1.00	100%	0%	2.81	.
Warehouse Controlled Atmosphere	Lighting Interior Other	1.00	100%	0%	0.01	1.72
Warehouse Controlled Atmosphere	Refrigeration	0.26	100%	0%	92.18	92.18

**Table C-1.12. Wyoming Commercial Saturations, Fuel Shares,
Share Above Standard, and EUIs**

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Grocery	Computers	1.00	100%	60%	0.04	0.04
Grocery	Cooking	0.56	22%	0%	2.17	2.17
Grocery	Cooling DX Evap	0.73	100%	23%	3.36	1.81
Grocery	Fax	1.00	100%	6%	0.01	0.01
Grocery	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Grocery	Freezers	1.00	100%	0%	0.02	0.02
Grocery	Heat Pump	0.05	100%	3%	8.66	4.13
Grocery	Lighting Exterior	1.00	100%	0%	1.05	1.05
Grocery	Lighting Interior Fluorescent	1.00	100%	7%	7.70	.
Grocery	Lighting Interior HID	1.00	100%	94%	1.11	.
Grocery	Lighting Interior Other	1.00	100%	0%	0.16	8.41
Grocery	Lighting Interior Screw Base	1.00	100%	100%	0.64	.
Grocery	Other Plug Load	1.00	100%	0%	0.92	0.92
Grocery	Photo Copiers	1.00	100%	83%	0.05	0.05
Grocery	Printers	1.00	100%	70%	0.01	0.01
Grocery	Refrigeration	0.72	100%	0%	22.36	22.36
Grocery	Refrigerators	1.00	100%	0%	0.15	0.15
Grocery	Space Heat	0.83	27%	0%	5.91	2.60
Grocery	Vending Machines	1.00	100%	27%	0.05	0.05
Grocery	Ventilation and Circulation	1.00	100%	0%	4.21	4.40
Grocery	Water Heat GT 55 Gal	0.08	60%	11%	0.40	0.39
Grocery	Water Heat LE 55 Gal	0.92	60%	11%	0.41	0.39
Health	Computers	1.00	100%	60%	0.31	0.29
Health	Cooking	0.26	2%	0%	0.44	0.44
Health	Cooling Chillers	0.13	100%	3%	1.03	0.49
Health	Cooling DX Evap	0.75	100%	18%	1.37	0.71
Health	Fax	1.00	100%	6%	0.01	0.01
Health	Flat Screen Monitors	1.00	100%	78%	0.06	0.07
Health	Freezers	1.00	100%	0%	0.01	0.01
Health	Heat Pump	0.04	100%	6%	9.63	6.03
Health	Lighting Exterior	1.00	100%	0%	0.58	0.58
Health	Lighting Interior Fluorescent	1.00	100%	62%	5.84	.
Health	Lighting Interior HID	1.00	100%	60%	0.12	.
Health	Lighting Interior Other	1.00	100%	0%	0.27	5.67
Health	Lighting Interior Screw Base	1.00	100%	51%	1.96	.
Health	Other Plug Load	1.00	100%	0%	2.50	2.50
Health	Photo Copiers	1.00	100%	83%	0.03	0.03
Health	Printers	1.00	100%	70%	0.08	0.07
Health	Refrigeration	0.30	100%	0%	0.64	0.64
Health	Refrigerators	1.00	100%	0%	0.09	0.09

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Health	Servers	1.00	100%	4%	0.05	0.05
Health	Space Heat	0.91	12%	0%	12.40	8.42
Health	Vending Machines	1.00	100%	27%	0.07	0.07
Health	Ventilation and Circulation	1.00	100%	0%	6.78	5.73
Health	Water Heat GT 55 Gal	0.08	30%	11%	2.10	2.06
Health	Water Heat LE 55 Gal	0.87	30%	11%	2.15	2.07
Large Office	Computers	1.00	100%	60%	0.51	0.48
Large Office	Cooling Chillers	0.20	100%	3%	0.98	0.59
Large Office	Cooling DX Evap	0.16	100%	23%	1.48	0.97
Large Office	Fax	1.00	100%	6%	0.01	0.01
Large Office	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
Large Office	Freezers	1.00	100%	0%	0.01	0.01
Large Office	Heat Pump	0.08	100%	28%	7.61	3.40
Large Office	Lighting Exterior	1.00	100%	0%	0.51	0.51
Large Office	Lighting Interior Fluorescent	1.00	100%	0%	3.36	.
Large Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Large Office	Lighting Interior Other	1.00	100%	0%	0.04	3.02
Large Office	Lighting Interior Screw Base	1.00	100%	40%	0.51	.
Large Office	Other Plug Load	1.00	100%	0%	0.47	0.47
Large Office	Photo Copiers	1.00	100%	83%	0.05	0.05
Large Office	Printers	1.00	100%	70%	0.10	0.09
Large Office	Refrigerators	1.00	100%	0%	0.06	0.06
Large Office	Servers	1.00	100%	4%	0.08	0.08
Large Office	Space Heat	0.84	20%	0%	9.05	3.99
Large Office	Vending Machines	1.00	100%	27%	0.09	0.09
Large Office	Ventilation and Circulation	1.00	100%	0%	3.24	2.76
Large Office	Water Heat GT 55 Gal	0.07	30%	11%	0.50	0.49
Large Office	Water Heat LE 55 Gal	0.77	30%	11%	0.51	0.49
Large Retail	Computers	1.00	100%	60%	0.09	0.09
Large Retail	Cooling DX Evap	0.33	100%	23%	1.60	1.16
Large Retail	Fax	1.00	100%	6%	0.01	0.01
Large Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Large Retail	Freezers	1.00	100%	0%	0.00	0.00
Large Retail	Heat Pump	0.07	100%	3%	6.20	3.46
Large Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Large Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.82	.
Large Retail	Lighting Interior HID	1.00	100%	94%	0.96	.
Large Retail	Lighting Interior Other	1.00	100%	0%	0.24	7.01
Large Retail	Lighting Interior Screw Base	1.00	100%	40%	1.78	.
Large Retail	Other Plug Load	1.00	100%	0%	0.52	0.52
Large Retail	Photo Copiers	1.00	100%	83%	0.06	0.06
Large Retail	Printers	1.00	100%	70%	0.03	0.02
Large Retail	Refrigerators	1.00	100%	0%	0.04	0.04

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Large Retail	Space Heat	0.55	14%	0%	6.13	3.28
Large Retail	Vending Machines	1.00	100%	27%	0.19	0.19
Large Retail	Ventilation and Circulation	1.00	100%	0%	2.28	1.89
Large Retail	Water Heat GT 55 Gal	0.07	42%	11%	0.24	0.23
Large Retail	Water Heat LE 55 Gal	0.80	42%	11%	0.25	0.23
Lodging	Computers	1.00	100%	60%	0.20	0.19
Lodging	Cooking	0.60	0%	0%	0.72	0.72
Lodging	Cooling Chillers	0.15	100%	3%	1.41	0.65
Lodging	Cooling DX Evap	0.29	100%	23%	1.55	0.80
Lodging	Cooling Room	0.22	100%	3%	1.75	0.94
Lodging	Fax	1.00	100%	6%	0.00	0.00
Lodging	Flat Screen Monitors	1.00	100%	78%	0.04	0.05
Lodging	Freezers	1.00	100%	0%	0.01	0.01
Lodging	Heat Pump	0.15	100%	7%	6.97	4.36
Lodging	Lighting Exterior	1.00	100%	0%	0.66	0.66
Lodging	Lighting Interior Fluorescent	1.00	100%	3%	1.16	.
Lodging	Lighting Interior HID	1.00	100%	99%	0.04	.
Lodging	Lighting Interior Other	1.00	100%	0%	0.04	2.55
Lodging	Lighting Interior Screw Base	1.00	100%	61%	3.43	.
Lodging	Other Plug Load	1.00	100%	0%	0.65	0.65
Lodging	Photo Copiers	1.00	100%	83%	0.02	0.02
Lodging	Printers	1.00	100%	70%	0.02	0.01
Lodging	Refrigeration	0.11	100%	0%	1.40	1.40
Lodging	Refrigerators	1.00	100%	0%	0.10	0.10
Lodging	Space Heat	0.78	28%	0%	7.69	5.72
Lodging	Vending Machines	1.00	100%	27%	0.06	0.06
Lodging	Ventilation and Circulation	1.00	100%	0%	2.64	2.64
Lodging	Water Heat GT 55 Gal	0.08	19%	11%	1.82	1.80
Lodging	Water Heat LE 55 Gal	0.87	19%	11%	1.86	1.81
Miscellaneous	Computers	1.00	100%	60%	0.12	0.12
Miscellaneous	Cooking	0.31	2%	0%	0.30	0.30
Miscellaneous	Cooling Chillers	0.01	100%	3%	1.20	0.69
Miscellaneous	Cooling DX Evap	0.38	100%	34%	1.37	0.88
Miscellaneous	Fax	1.00	100%	6%	0.01	0.01
Miscellaneous	Flat Screen Monitors	1.00	100%	78%	0.03	0.03
Miscellaneous	Freezers	1.00	100%	0%	0.01	0.01
Miscellaneous	Heat Pump	0.02	100%	4%	7.12	3.41
Miscellaneous	Lighting Exterior	1.00	100%	0%	1.23	1.23
Miscellaneous	Lighting Interior Fluorescent	1.00	100%	0%	2.88	.
Miscellaneous	Lighting Interior HID	1.00	100%	97%	0.98	.
Miscellaneous	Lighting Interior Other	1.00	100%	0%	0.13	3.76
Miscellaneous	Lighting Interior Screw Base	1.00	100%	63%	0.77	.
Miscellaneous	Other Plug Load	1.00	100%	0%	1.01	1.01

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Miscellaneous	Photo Copiers	1.00	100%	83%	0.07	0.07
Miscellaneous	Printers	1.00	100%	70%	0.03	0.03
Miscellaneous	Refrigeration	0.11	100%	0%	0.81	0.81
Miscellaneous	Refrigerators	1.00	100%	0%	0.05	0.05
Miscellaneous	Servers	1.00	100%	4%	0.01	0.01
Miscellaneous	Space Heat	0.72	19%	0%	7.59	3.64
Miscellaneous	Vending Machines	1.00	100%	27%	0.12	0.12
Miscellaneous	Ventilation and Circulation	1.00	100%	0%	2.25	1.89
Miscellaneous	Water Heat GT 55 Gal	0.06	26%	11%	0.37	0.36
Miscellaneous	Water Heat LE 55 Gal	0.70	26%	11%	0.38	0.36
Restaurant	Computers	1.00	100%	60%	0.05	0.05
Restaurant	Cooking	0.81	20%	0%	10.44	10.44
Restaurant	Cooling DX Evap	0.70	100%	12%	3.67	2.06
Restaurant	Fax	1.00	100%	6%	0.06	0.06
Restaurant	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Restaurant	Freezers	1.00	100%	0%	0.03	0.03
Restaurant	Lighting Exterior	1.00	100%	0%	2.36	2.36
Restaurant	Lighting Interior Fluorescent	1.00	100%	0%	4.54	.
Restaurant	Lighting Interior HID	1.00	100%	100%	0.31	.
Restaurant	Lighting Interior Other	1.00	100%	0%	0.32	7.70
Restaurant	Lighting Interior Screw Base	1.00	100%	83%	4.38	.
Restaurant	Other Plug Load	1.00	100%	0%	0.83	0.83
Restaurant	Photo Copiers	1.00	100%	83%	0.28	0.28
Restaurant	Printers	1.00	100%	70%	0.01	0.01
Restaurant	Refrigeration	0.77	100%	0%	9.00	9.00
Restaurant	Refrigerators	1.00	100%	0%	0.31	0.31
Restaurant	Space Heat	0.93	16%	0%	4.66	2.21
Restaurant	Ventilation and Circulation	1.00	100%	0%	4.03	4.01
Restaurant	Water Heat GT 55 Gal	0.07	9%	11%	9.00	8.92
Restaurant	Water Heat LE 55 Gal	0.85	9%	11%	9.21	8.95
School	Computers	1.00	100%	60%	0.46	0.44
School	Cooking	0.60	28%	0%	0.36	0.36
School	Cooling Chillers	0.23	100%	3%	0.18	0.14
School	Cooling DX Evap	0.40	100%	23%	0.26	0.21
School	Fax	1.00	100%	6%	0.01	0.01
School	Flat Screen Monitors	1.00	100%	78%	0.10	0.11
School	Freezers	1.00	100%	0%	0.00	0.00
School	Lighting Exterior	1.00	100%	0%	0.76	0.76
School	Lighting Interior Fluorescent	1.00	100%	0%	3.08	.
School	Lighting Interior HID	1.00	100%	85%	0.32	.
School	Lighting Interior Other	1.00	100%	0%	0.02	3.08
School	Lighting Interior Screw Base	1.00	100%	40%	0.16	.
School	Other Plug Load	1.00	100%	0%	0.12	0.12

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
School	Photo Copiers	1.00	100%	83%	0.04	0.04
School	Printers	1.00	100%	70%	0.04	0.04
School	Refrigeration	0.35	100%	0%	0.42	0.42
School	Refrigerators	1.00	100%	0%	0.03	0.03
School	Servers	1.00	100%	4%	0.03	0.03
School	Space Heat	0.97	13%	0%	19.60	11.61
School	Vending Machines	1.00	100%	27%	0.09	0.09
School	Ventilation and Circulation	1.00	100%	0%	2.15	1.74
School	Water Heat GT 55 Gal	0.07	41%	11%	1.61	1.60
School	Water Heat LE 55 Gal	0.83	41%	11%	1.65	1.60
Small Office	Computers	1.00	100%	60%	0.51	0.48
Small Office	Cooling DX Evap	0.69	100%	9%	1.56	0.96
Small Office	Fax	1.00	100%	6%	0.01	0.01
Small Office	Flat Screen Monitors	1.00	100%	78%	0.11	0.12
Small Office	Freezers	1.00	100%	0%	0.01	0.01
Small Office	Lighting Exterior	1.00	100%	0%	1.28	1.28
Small Office	Lighting Interior Fluorescent	1.00	100%	0%	3.36	.
Small Office	Lighting Interior HID	1.00	100%	91%	0.13	.
Small Office	Lighting Interior Other	1.00	100%	0%	0.04	3.02
Small Office	Lighting Interior Screw Base	1.00	100%	60%	0.50	.
Small Office	Other Plug Load	1.00	100%	0%	1.31	1.31
Small Office	Photo Copiers	1.00	100%	83%	0.05	0.05
Small Office	Printers	1.00	100%	70%	0.10	0.09
Small Office	Refrigerators	1.00	100%	0%	0.06	0.06
Small Office	Servers	1.00	100%	4%	0.08	0.08
Small Office	Space Heat	0.93	23%	0%	9.05	3.99
Small Office	Vending Machines	1.00	100%	27%	0.09	0.09
Small Office	Ventilation and Circulation	1.00	100%	0%	2.22	1.89
Small Office	Water Heat GT 55 Gal	0.07	38%	11%	0.50	0.49
Small Office	Water Heat LE 55 Gal	0.83	38%	11%	0.51	0.49
Small Retail	Computers	1.00	100%	60%	0.09	0.09
Small Retail	Cooling DX Evap	0.52	100%	36%	1.39	0.96
Small Retail	Fax	1.00	100%	6%	0.01	0.01
Small Retail	Flat Screen Monitors	1.00	100%	78%	0.02	0.02
Small Retail	Freezers	1.00	100%	0%	0.00	0.00
Small Retail	Lighting Exterior	1.00	100%	0%	1.11	1.11
Small Retail	Lighting Interior Fluorescent	1.00	100%	1%	5.82	.
Small Retail	Lighting Interior HID	1.00	100%	94%	0.96	.
Small Retail	Lighting Interior Other	1.00	100%	0%	0.24	7.01
Small Retail	Lighting Interior Screw Base	1.00	100%	77%	1.55	.
Small Retail	Other Plug Load	1.00	100%	0%	0.93	0.93
Small Retail	Photo Copiers	1.00	100%	83%	0.06	0.06
Small Retail	Printers	1.00	100%	70%	0.03	0.02

Segment	End Use	Saturation	Electric Fuel Share	Share of Equipment Above Standard	Weighted Average EUI (kWh/sqft) - Existing	Weighted Average EUI (kWh/sqft) - New
Small Retail	Refrigerators	1.00	100%	0%	0.04	0.04
Small Retail	Space Heat	0.84	17%	0%	6.13	3.28
Small Retail	Vending Machines	1.00	100%	27%	0.19	0.19
Small Retail	Ventilation and Circulation	1.00	100%	0%	2.28	1.89
Small Retail	Water Heat GT 55 Gal	0.05	34%	11%	0.24	0.23
Small Retail	Water Heat LE 55 Gal	0.56	34%	11%	0.25	0.23
Warehouse	Computers	1.00	100%	60%	0.05	0.05
Warehouse	Cooling Chillers	0.04	100%	3%	0.41	0.23
Warehouse	Cooling DX Evap	0.24	100%	23%	0.51	0.32
Warehouse	Fax	1.00	100%	6%	0.01	0.01
Warehouse	Flat Screen Monitors	1.00	100%	78%	0.01	0.01
Warehouse	Freezers	1.00	100%	0%	0.00	0.00
Warehouse	Heat Pump	0.04	100%	3%	3.69	2.76
Warehouse	Lighting Exterior	1.00	100%	0%	0.28	0.28
Warehouse	Lighting Interior Fluorescent	1.00	100%	1%	1.49	.
Warehouse	Lighting Interior HID	1.00	100%	72%	1.18	.
Warehouse	Lighting Interior Other	1.00	100%	0%	0.01	2.75
Warehouse	Lighting Interior Screw Base	1.00	100%	40%	0.62	.
Warehouse	Other Plug Load	1.00	100%	0%	0.35	0.35
Warehouse	Photo Copiers	1.00	100%	83%	0.03	0.03
Warehouse	Printers	1.00	100%	70%	0.01	0.01
Warehouse	Refrigerators	1.00	100%	0%	0.02	0.02
Warehouse	Space Heat	0.59	16%	0%	7.66	5.71
Warehouse	Vending Machines	1.00	100%	27%	0.06	0.06
Warehouse	Ventilation and Circulation	1.00	100%	0%	1.47	1.02
Warehouse	Water Heat GT 55 Gal	0.07	52%	11%	0.35	0.34
Warehouse	Water Heat LE 55 Gal	0.81	52%	11%	0.36	0.34

Table C-1.13. Utah Data Center End Use Consumption

Segment	End Use	Base Year (2012) End Use Consumption - kWh	Percent of Total
Data Center	Fans	12,330,436	10%
Data Center	HVAC	30,826,091	25%
Data Center	Lighting	1,233,044	1%
Data Center	Other	78,914,792	64%

Table C-1.14. Industrial and Irrigation End Use Percents by Segment

End Use	Chem. Mfg.	Electronic Equip. Mfg.	Food Mfg.	Indust. Machinery	Irrigation	Lumber Wood Products	Mining	Mining: Wyoming	Misc. Mfg.	Paper Mfg.	Petroleum Refining	Metal Mfg.	Stone Clay Glass Products	Transp. Equip. Mfg.	Wastewater	Water
Fans	7%	4%	4%	7%	0%	10%	0%	0%	6%	16%	11%	5%	8%	5%	0%	10%
Hvac	6%	17%	7%	18%	0%	7%	0%	0%	20%	4%	3%	4%	6%	19%	0%	0%
Indirect Boiler	1%	0%	1%	0%	0%	1%	0%	0%	9%	3%	1%	0%	0%	0%	0%	0%
Lighting	4%	13%	7%	14%	0%	7%	0%	0%	15%	4%	2%	3%	5%	15%	2%	2%
Motors Other	15%	10%	19%	19%	0%	28%	88%	77%	22%	32%	31%	20%	23%	12%	0%	10%
Other	2%	8%	7%	7%	10%	8%	0%	0%	4%	2%	1%	1%	4%	4%	14%	14%
Process Aircomp	16%	10%	4%	8%	0%	11%	0%	0%	5%	4%	13%	5%	9%	12%	66%	0%
Process Cool	9%	4%	25%	3%	0%	1%	0%	0%	6%	1%	6%	1%	3%	5%	0%	0%
Process Electro Chemical	18%	3%	0%	1%	0%	0%	0%	0%	0%	2%	0%	31%	0%	1%	0%	0%
Process Heat	3%	19%	3%	7%	0%	5%	6%	0%	9%	2%	6%	28%	20%	10%	0%	0%
Process Other	0%	1%	0%	1%	0%	0%	5%	22%	0%	0%	0%	0%	1%	1%	0%	0%
Process Refrig	4%	3%	15%	3%	0%	5%	0%	0%	0%	4%	5%	0%	4%	3%	0%	0%
Pumps	15%	9%	8%	12%	90%	18%	1%	1%	3%	25%	20%	3%	15%	11%	18%	64%

Source: U.S. Energy Information Administration (EIA), Manufacturing Energy Consumption Survey (MECS) 2006 (for manufacturing industries only).

Mining: DOE EERE http://www1.eere.energy.gov/manufacturing/resources/mining/pdfs/appendix.pdf

Water/Wastewater: Puget Sound Energy (PSE) survey of wastewater treatment plants, 2003.

Note: Values may not sum to 100% due to rounding.