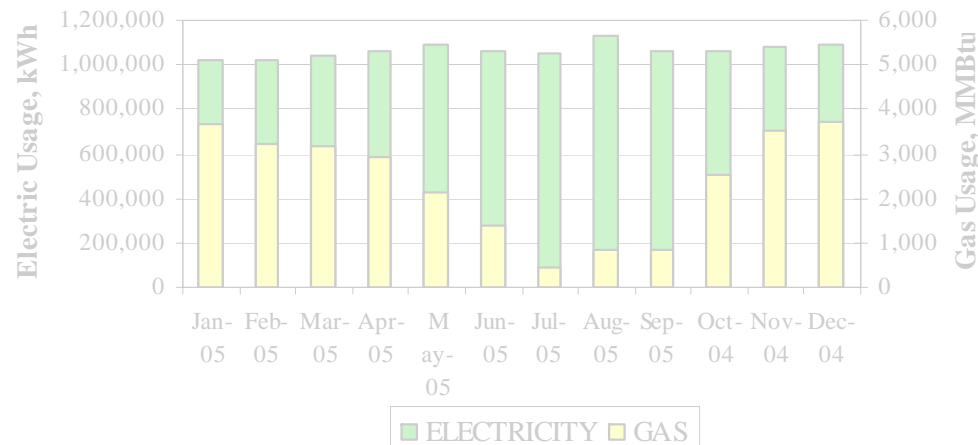


ENERGY BILL ORGANIZATION

Xcel Energy		PUBLIC SERVICE COMPANY OF COLORADO P.O. BOX 940 DENVER, CO, 80201 (800) 481-4700	
Account No. 53-201901-2		Page 2 of 2	
Customer Name	Service Address	Doc Date	Prmise Number Prmise Total
Electric Service - Account Summary			
Invoice Number		Secondary Gen	\$7,840.52
Meter No		BRSA	\$400.00
Rate	50	Demand	\$12,286.45
Days in Bill Period	25	Incentive Cost Adj	\$873.45
Current Reading	02/16/2005	Air Quality Imp	\$533.27
Previous Reading	02/17/2005	Elec Commodity Adj	\$9,563.73
Kilowatt Hours Used	463540	Franchise Fee	\$851.71
Measured Demand	576	Sales Tax	\$1,033.32
Billed Demand	576	Subtotal	\$20,278.83
		Billing Period	Kwh Usage/Month
		This Year	463540
		Last Year	462557
			Avg. Daily Temp.
			40°
			42°
change. If applicable, please pay late amount, which includes the late charge.			

FIGURE 1: FACILITY ENERGY USAGE



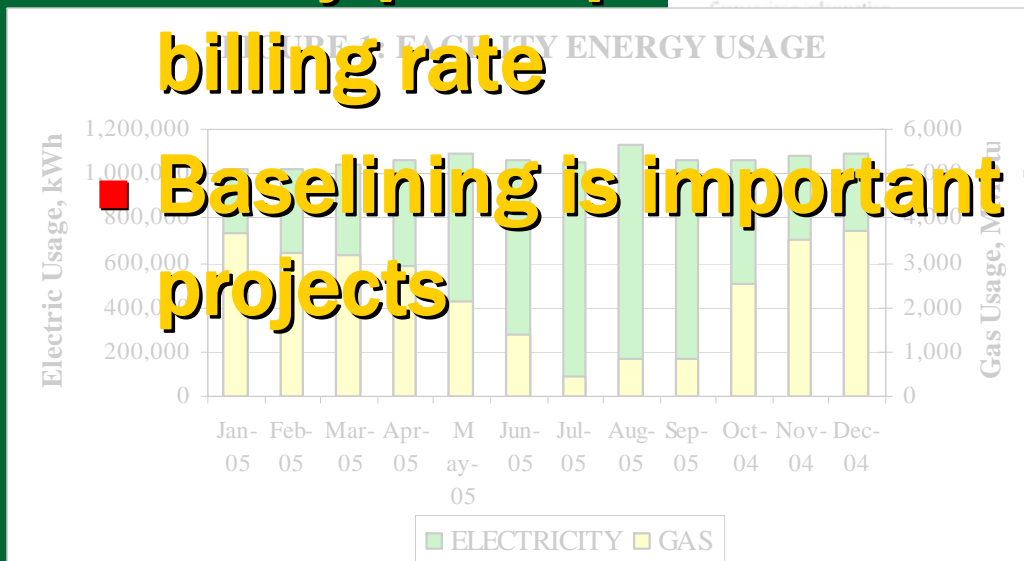
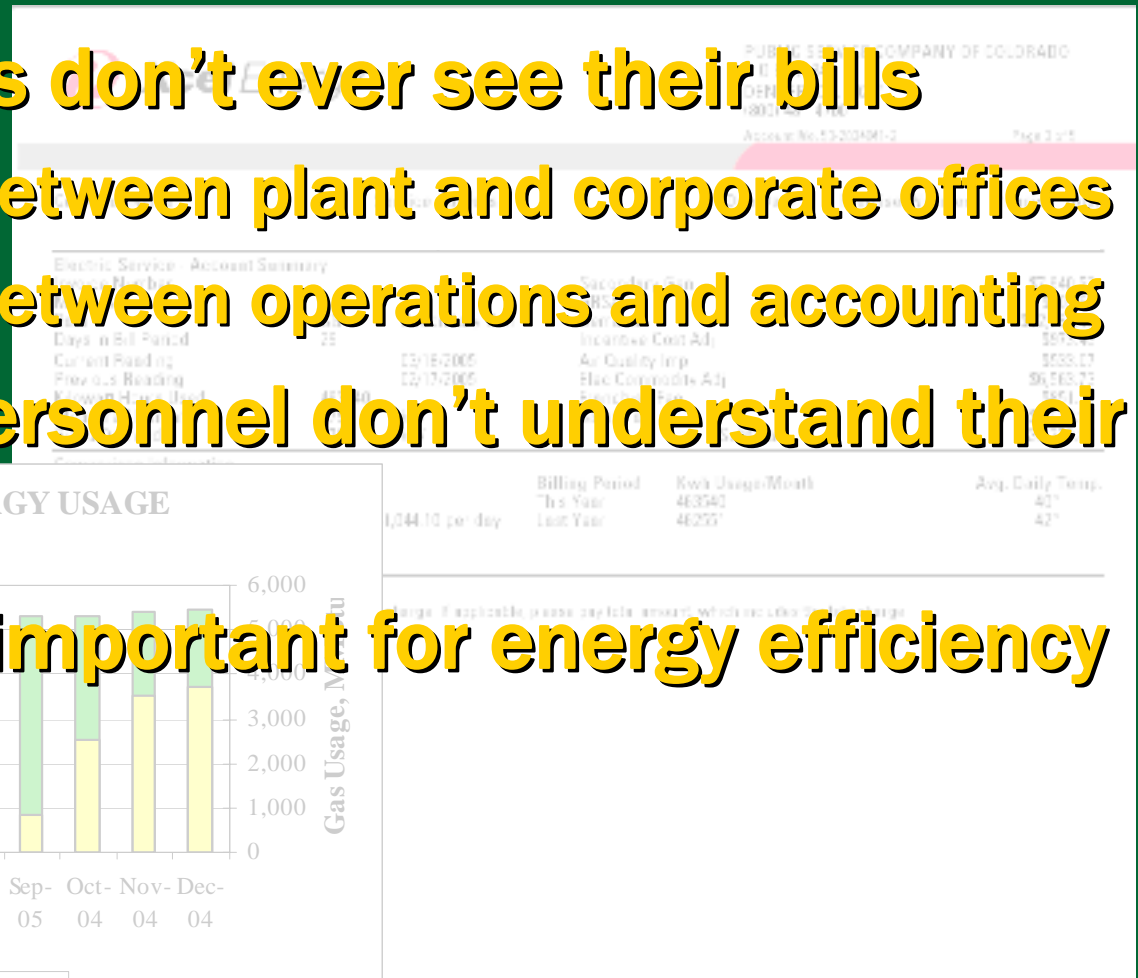
ENERGY BILL ORGANIZATION

■ Why bother?

- Many facilities don't ever see their bills
 - Disconnect between plant and corporate offices
 - Disconnect between operations and accounting
- Many plant personnel don't understand their

billing rate

- Baseline is important for energy efficiency projects



ENERGY BILL ORGANIZATION

- **Example: CSU IAC Reports**

- **Breakdown by energy**

- **Electric, peak demand, gas, water, sewer**

- **Description of rate**

- **Sample bill calculation**

PUBLIC SERVICE COMPANY OF COLORADO
 P.O. BOX 940
 DENVER, CO, 80201
 (800) 481-4700
 Account No. 442019M-2 Page 2 of 2

Account Number	Previous Total
442019M-2	\$20,278.83

Electric Service - Account Summary

Item	Unit	Rate	Amount
Secondary Gas	cu ft	\$1.40	\$7,140.00
BRSA			\$400.00
Demand			\$12,288.45
Incentive Cost Adj.			\$873.45
Air Quality Imp.			\$533.17
Elec. Commodity Adj.			\$9,763.73
Franchise Fee			\$851.71
Sales Tax			\$1,023.32
Subtotal			\$20,278.83

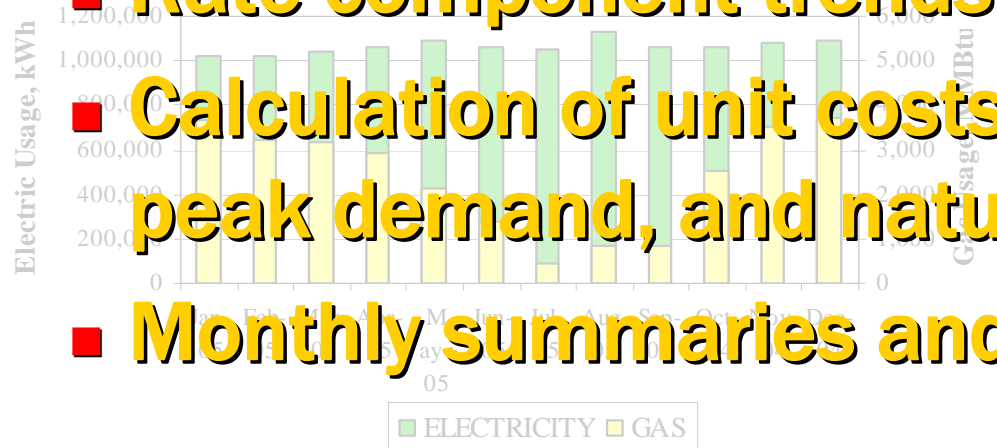
Billing Period	Kwh Usage/Month	Avg. Daily Temp.
This Year	443540	40°
Last Year	442557	42°

FIGURE 1: FACILITY ENERGY USAGE

- **Rate component trends**

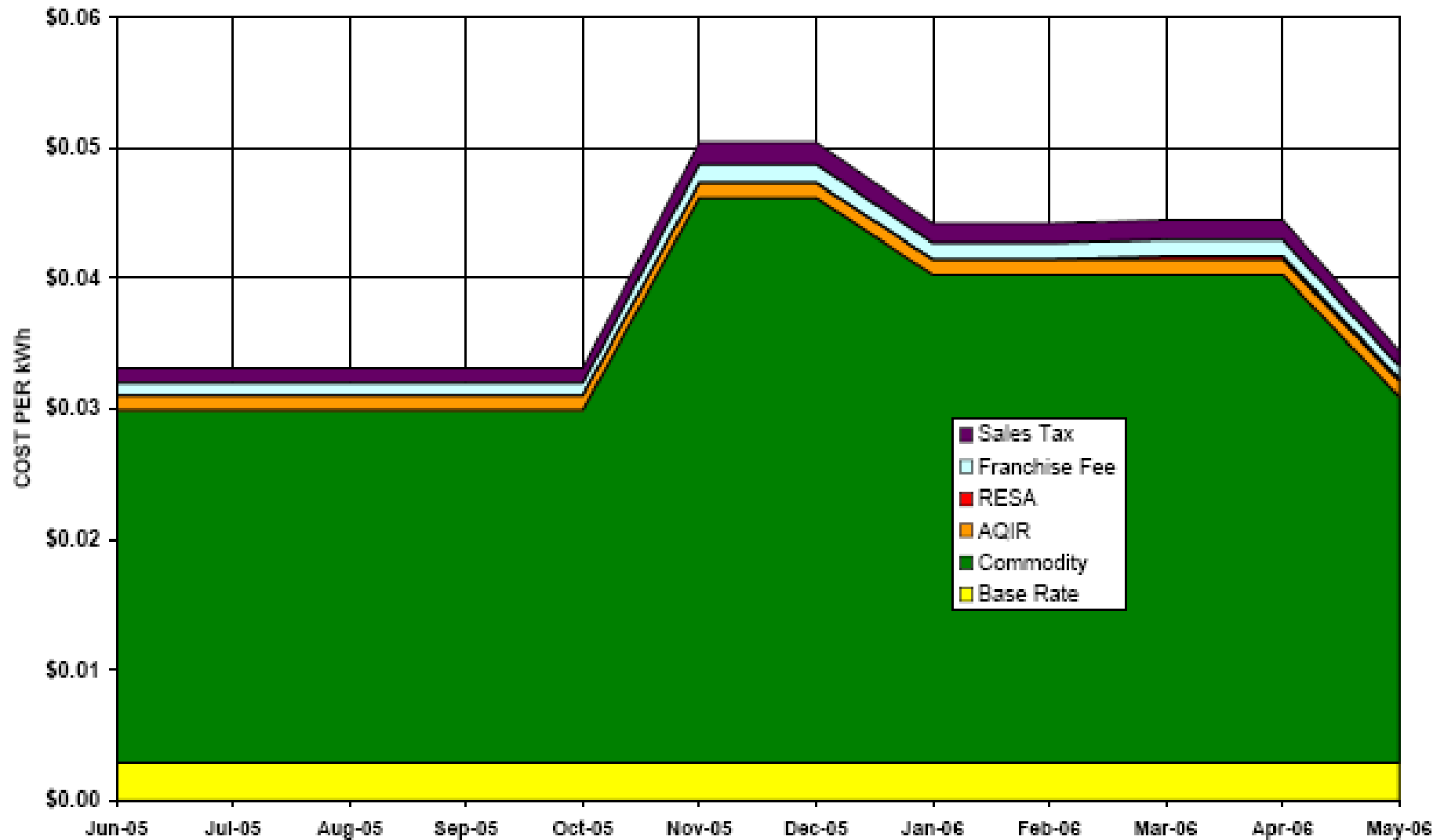
- **Calculation of unit costs of electric energy, peak demand, and natural gas**

- **Monthly summaries and graphs**



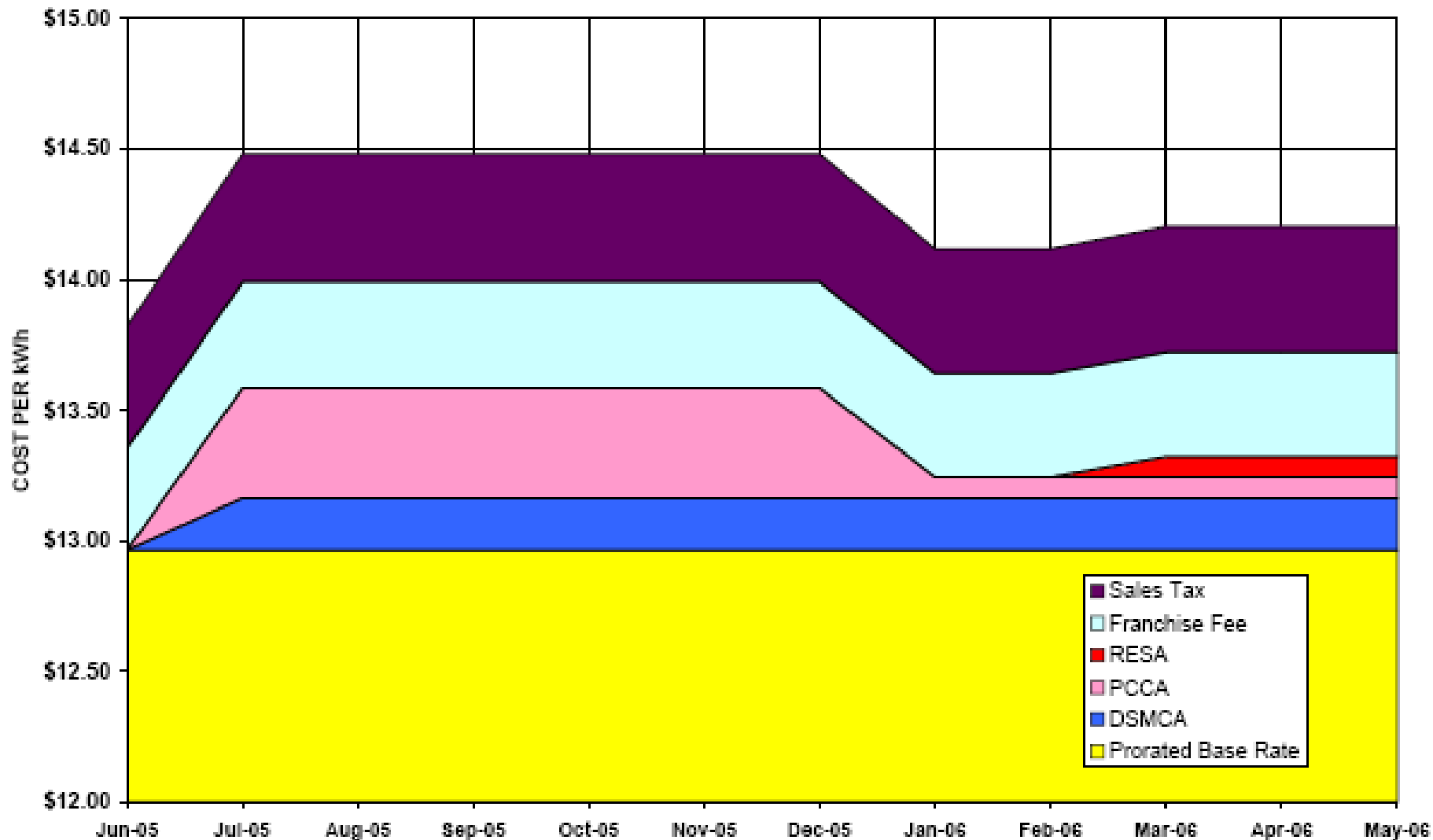
ENERGY BILL ORGANIZATION

ELECTRIC ENERGY COSTS - SG RATE
June 2005 through May 2006



ENERGY BILL ORGANIZATION

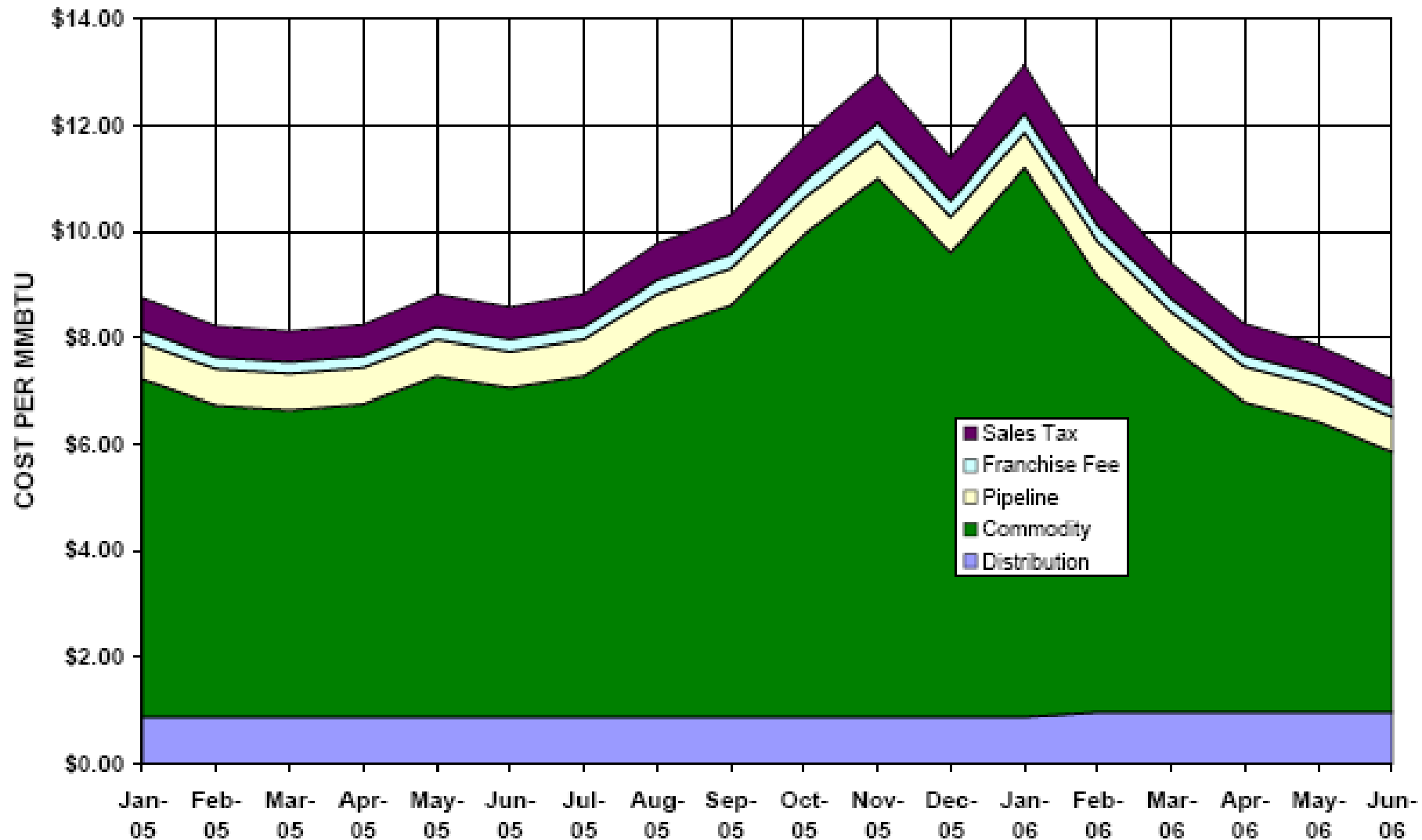
ELECTRIC DEMAND COSTS - SG RATE
June 2005 through May 2006



ENERGY BILL ORGANIZATION

NATURAL GAS PRICES - CG RATE

January 2005 through June 2006



ENERGY BILL ORGANIZATION

- Example: CSU IAC Reports

PUBLIC SERVICE COMPANY OF COLORADO

OVERALL UTILITY BILL SUMMARY

Electric Usage	4,464,494 kWh or 15,237.3 MMBtu	Electric Usage Cost	\$172,109
Pk Electric Demand	9,778 kW-mo or avg. 815 kW/mo.	Pk Electric Demand Cost	\$140,169
		Electric Meter Cost	\$298
Gas Usage	27,376.3 MMBtu	Gas Cost	\$246,012
TOTALS	42,613.6 MMBtu		\$558,588

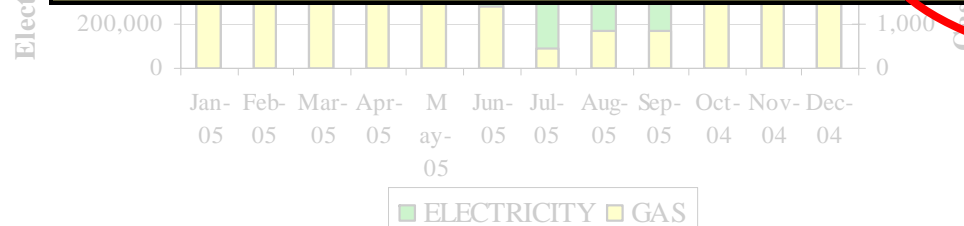
Kilowatt Hours Used 483540
 Measured Demand 578 kW
 Billed Demand 578 kW
 Franchise Fee
 Sales Tax
 Subtotal
 Tax Total
 Prorated Total
 \$7,840.55
 \$400.55
 \$12,286.45
 \$879.45
 \$539.17
 \$9,163.72
 \$851.71
 \$1,029.32
 \$20,278.83

FIGURE 1: FACILITY ENERGY USAGE

ANNUAL UTILITY USAGE BY BUILDING SIZE

Facility Size: 161,570 sq. ft.

Electric Usage:	94,308 Btu/sq. ft./yr	Electric Cost:	\$1.93 /sq. ft./yr
Gas Usage:	169,439 Btu/sq. ft./yr	Gas Cost:	\$1.52 /sq. ft./yr
Total Energy Usage:	263,747 Btu/sq. ft./yr	Total Energy Cost:	\$3.45 /sq. ft./yr



ENERGY BILL ORGANIZATION

- Example: CSU IAC Reports

PUBLIC SERVICE COMPANY OF COLORADO

FACILITY ELECTRIC BILL SUMMARY

Month	Energy Usage <i>kWh</i>	Net Usage Cost	Peak Demand <i>kW-mo</i>	Net Demand Cost	Avg. Load Factor	Net Other Costs	Total Cost
Jan-06	347,069	\$16,631	806.0	\$11,215	56.1%	\$27	\$27,873
Feb-06	348,216	\$15,394	748.0	\$10,247	62.6%	\$27	\$25,668
Mar-06	356,640	\$15,812	870.0	\$11,952	58.9%	\$27	\$27,791
Apr-05	381,247	\$13,649	788.0	\$10,757	65.0%	\$17	\$24,423
May-05	341,029	\$11,782	832.0	\$11,358	61.0%	\$17	\$23,157
Jun-05	400,569	\$13,753	831.0	\$11,914	62.8%	\$21	\$25,688
Jul-05	384,617	\$13,087	826.0	\$12,660	64.7%	\$27	\$25,774

kWh

$$\text{Load Factor} = \frac{\text{kWh consumption}}{\text{kW peak demand} \times 24 \text{ h/day} \times \text{days in billing cycle}}$$

Dec-05	401,521	\$20,259	809.0	\$11,376	62.7%	\$27	\$31,662
TOTALS	4,464,494	\$172,109	9,778.0	\$140,169	62.7%	\$298	\$312,576

■ ELECTRICITY ■ GAS

ENERGY BILL ORGANIZATION

- Example: CSU IAC Reports

GAS BILL SUMMARY - WAREHOUSE

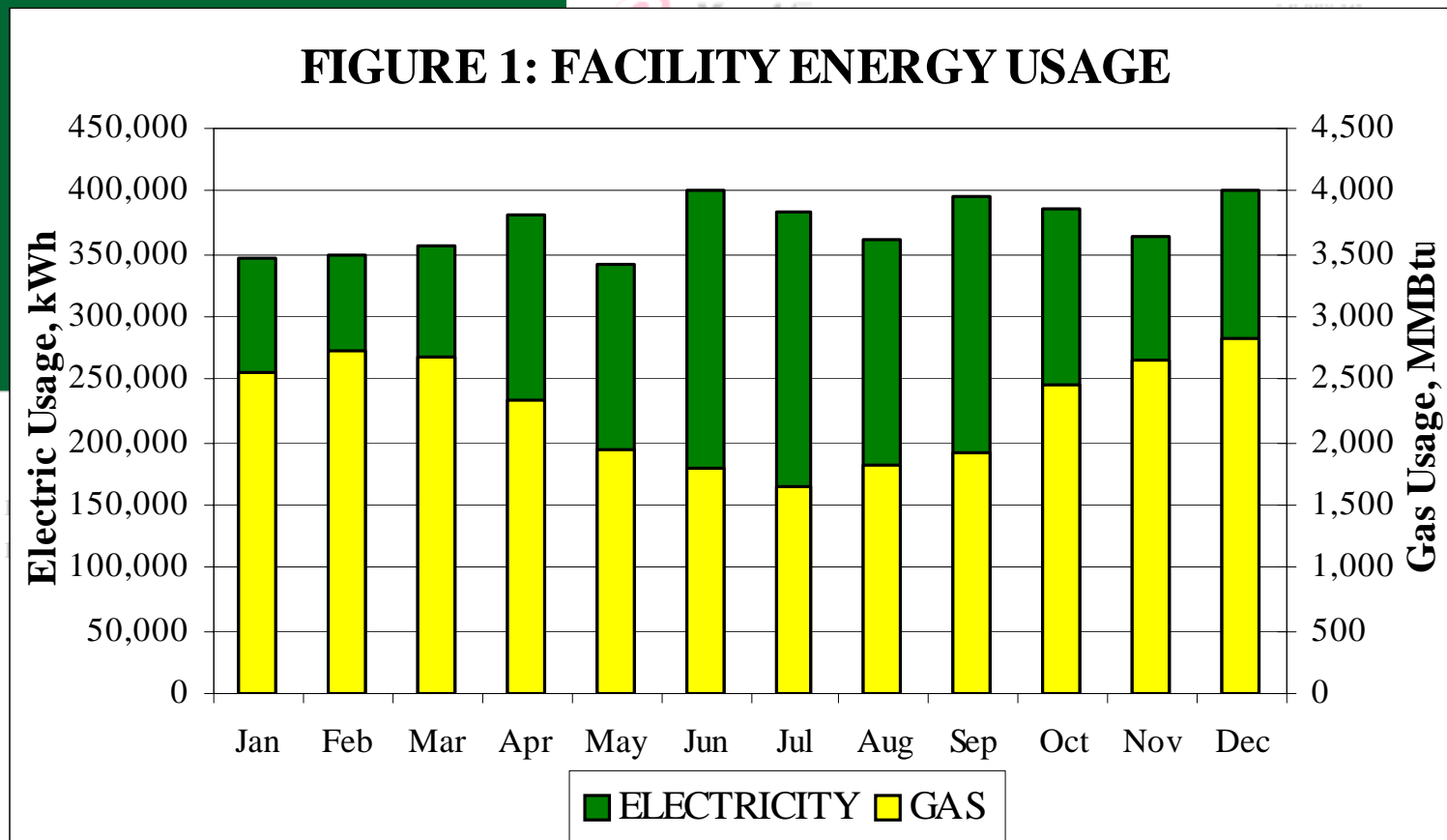
Month	Gas Usage <i>ccf</i>	Therm Factor <i>MMBtu/ccf</i>	Gas Usage <i>MMBtu</i>	Net Gas Cost	Net Other Cost	Total Cost
Jan-06	3,285	0.9853	323.7	\$3,887	\$17	\$3,904
Feb-06	3,565	0.9901	353.0	\$4,280	\$18	\$4,298
Mar-06	3,462	0.9909	343.1	\$3,525	\$22	\$3,547
Apr-05	2,604	0.9697	252.5	\$2,063	\$17	\$2,080
May-05	1,357	0.9596	130.2	\$1,102	\$17	\$1,119
Jun-05	185	0.9418	17.4	\$151	\$17	\$168
Jul-05	-	0.9299	-	\$0	\$17	\$17
Aug-05	102	0.9314	9.5	\$92	\$18	\$110
Sep-05	57	0.9298	5.3	\$53	\$18	\$71
Oct-05	474	0.9620	45.6	\$537	\$18	\$555
Nov-05	1,468	0.9741	143.0	\$1,739	\$18	\$1,757
Dec-05	3,390	1.0059	341.0	\$4,143	\$18	\$4,161
TOTALS	19,949	0.9642	1,964.3	\$21,572	\$215	\$21,787

Electric Usage, kWh

■ ELECTRICITY ■ GAS

ENERGY BILL ORGANIZATION

- Example: CSU IAC Reports



PUBLIC SERVICE COMPANY OF COLORADO

Page 2 of 2

Item	Previous Total
	\$7,840.55
	\$400.55
	\$12,286.45
	\$879.45
	\$539.17
	\$9,763.73
	\$851.71
	\$1,039.32
	\$20,278.83

Avg. Daily Temp.
40°
42°

Electric Usage, kWh

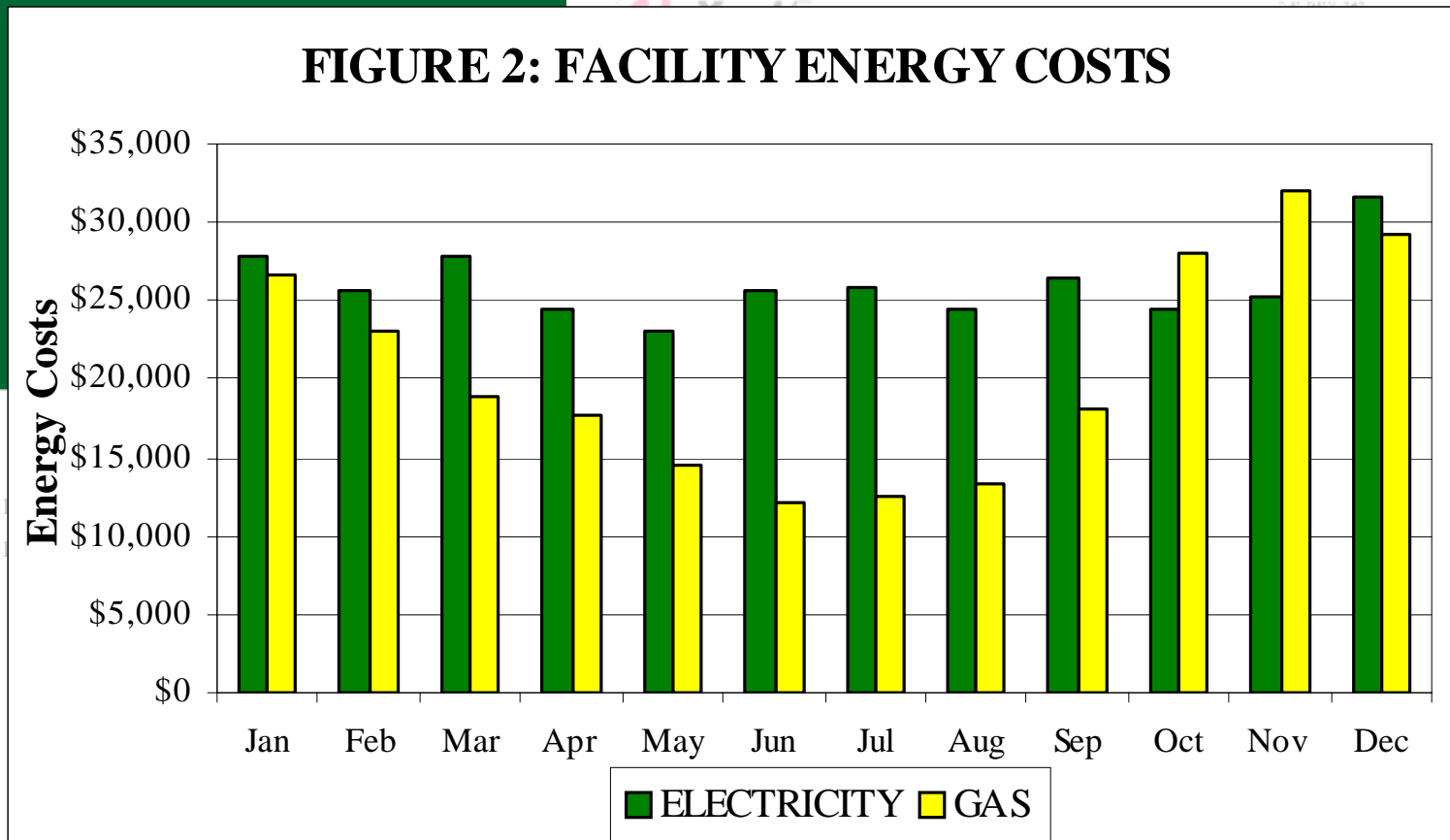
Gas Usage, MMBtu

■ ELECTRICITY ■ GAS

05
■ ELECTRICITY ■ GAS

ENERGY BILL ORGANIZATION

- Example: CSU IAC Reports



Electric Usage, kWh

FIGURE 2: FACILITY ENERGY COSTS

PUBLIC SERVICE COMPANY OF COLORADO

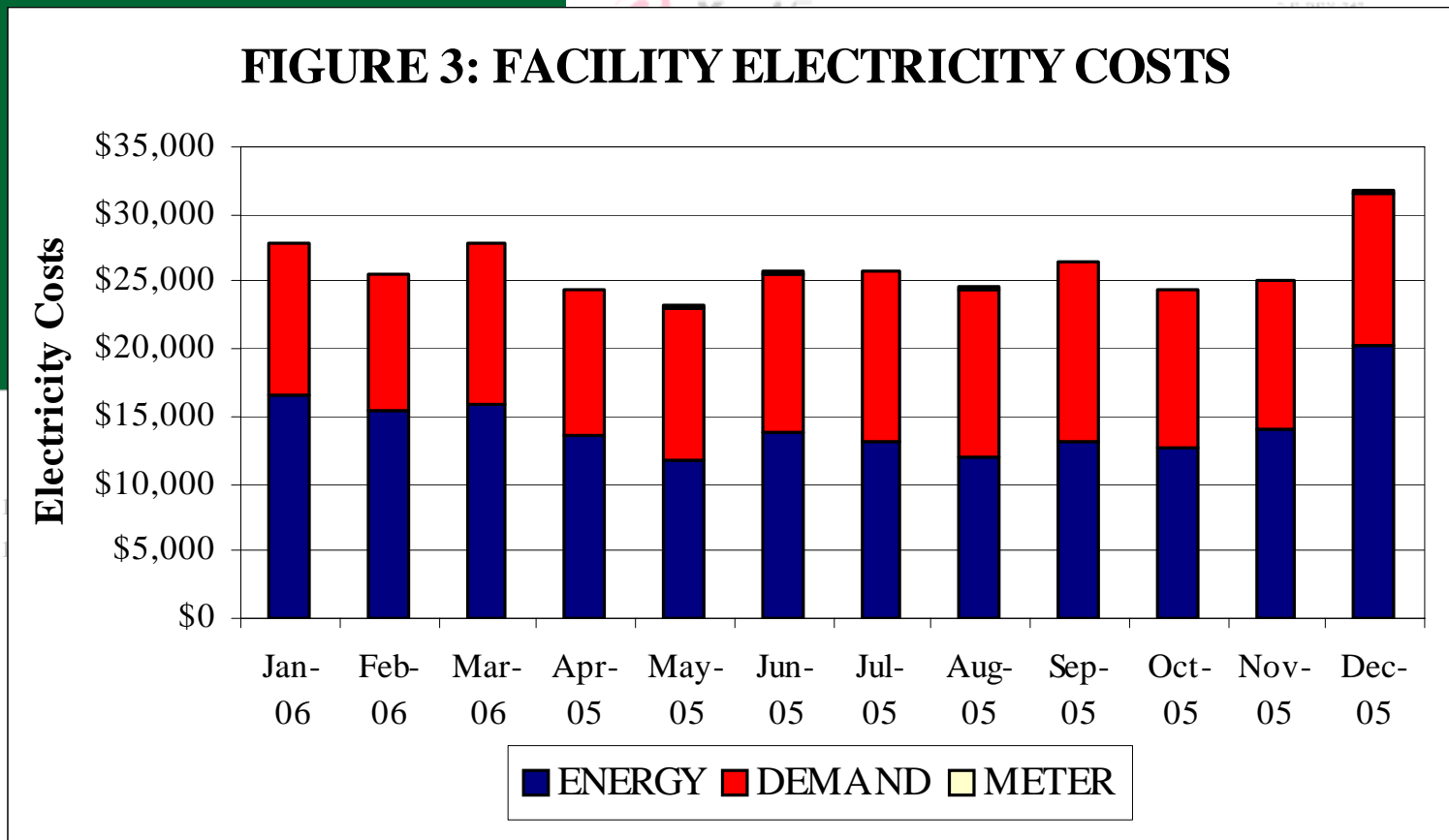
Item	Previous Total
	\$7,840.55
	\$400.55
	\$12,286.45
	\$873.45
	\$533.17
	\$9,763.73
	\$851.71
	\$1,033.32
	\$20,278.83
Avg. Daily Temp.	
	40°
	42°

05

ELECTRICITY GAS

ENERGY BILL ORGANIZATION

- Example: CSU IAC Reports



PUBLIC SERVICE COMPANY OF COLORADO

Page 2 of 2

Usage Period Total

Electricity	\$7,840.55
Gas	\$400.55
Water	\$12,286.45
Waste	\$873.45
Other	\$533.17
Subtotal	\$9,763.72
Electricity	\$851.71
Gas	\$1,033.52
Water	\$20,278.83

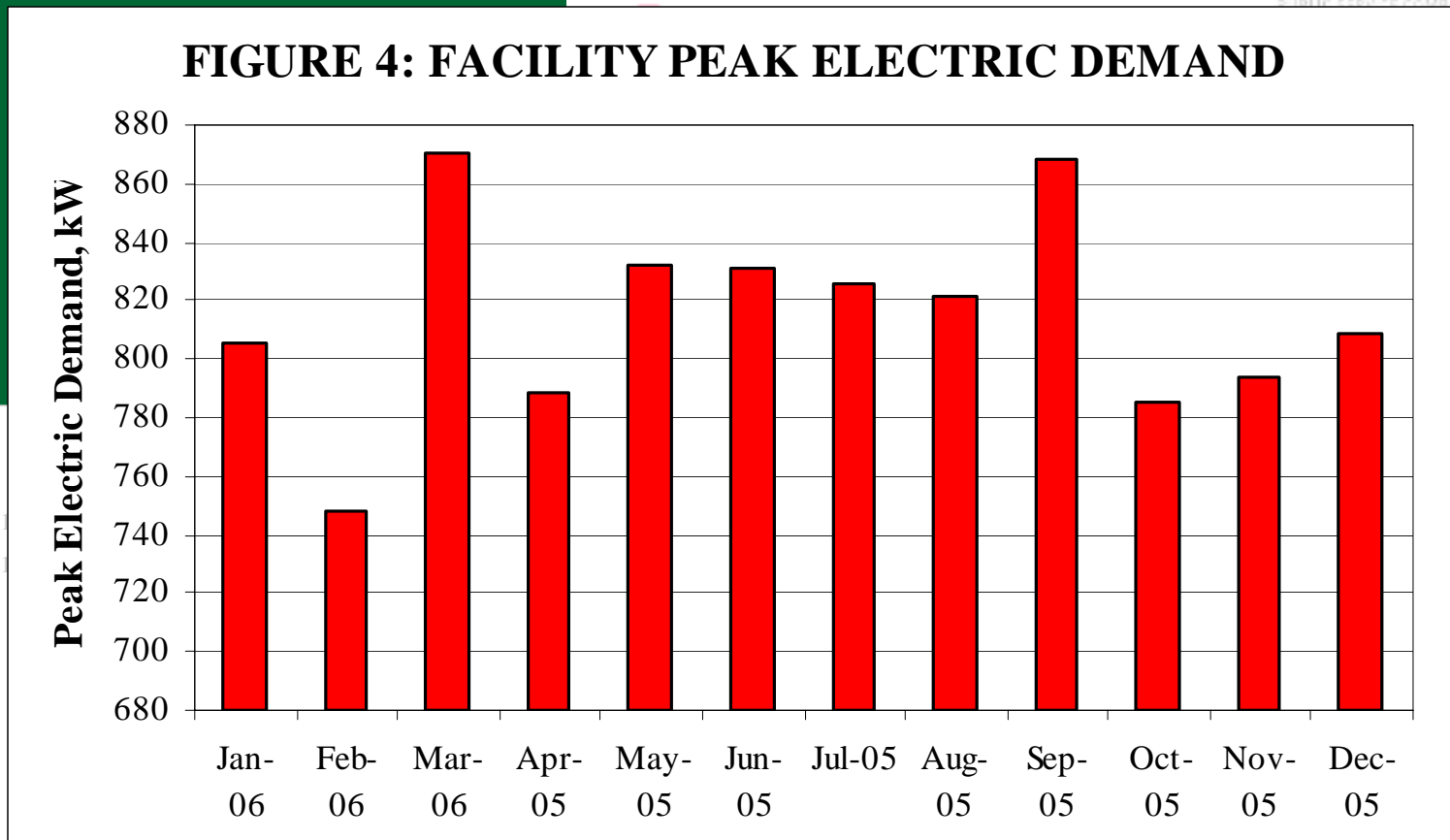
Avg. Daily Temp.
40°
42°

Electric Usage, kWh

05
ELECTRICITY GAS

ENERGY BILL ORGANIZATION

- Example: CSU IAC Reports



Electric Usage, kWh

■ ELECTRICITY ■ GAS

PUBLIC SERVICE COMPANY OF COLORADO

Page 2 of 2

Item	Previous Total
	\$7,840.55
	\$400.55
	\$12,286.45
	\$573.45
	\$533.17
	\$9,763.73
	\$851.71
	\$1,033.32
	\$20,278.83

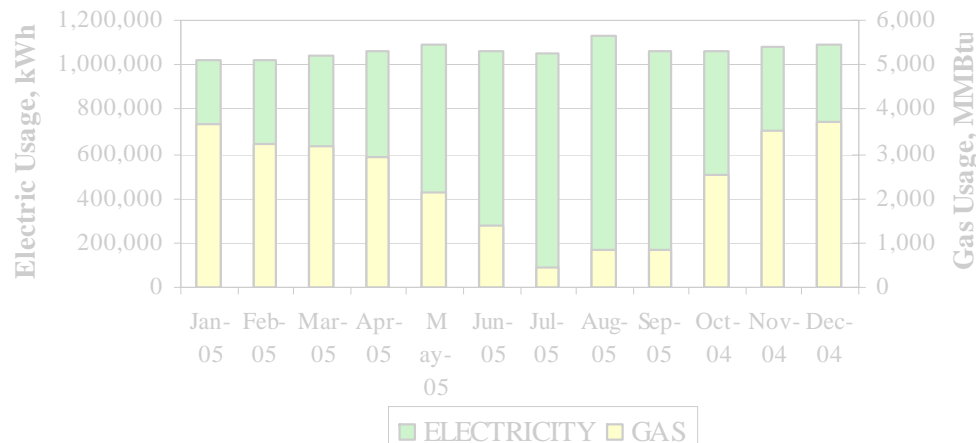
Avg. Daily Temp.
40°
42°

ENERGY BILL ORGANIZATION

- Let's look at some more detailed trend data that may be available

Xcel Energy		PUBLIC SERVICE COMPANY OF COLORADO P.O. BOX 940 DENVER, CO, 80201 (800) 487-4700	
Account No. 13-2019M-2		Page 2 of 2	
Customer Name	Service Address	Due Date	Prepaid Number
Invoice Number	Secondary Gen		Prepaid Total
Meter No	BRSA		\$7,140.52
Rate	Demand		\$400.55
Kilowatt Hours Used	Incentive Cost Adj		\$12,286.45
Measured Demand	Air Quality Imp		\$879.45
Billed Demand	Elec Commodity Adj		\$539.17
	Franchise Fee		\$9,563.73
	Sales Tax		\$851.71
	Subtotal		\$1,039.32
			\$20,278.83
Billing Period	Kwh Usage/Month	Avg. Daily Temp.	
This Year	463540	40°	
Last Year	462937	42°	
1,044.10 per day			
change. If applicable, please pay this amount, which includes the late charge.			

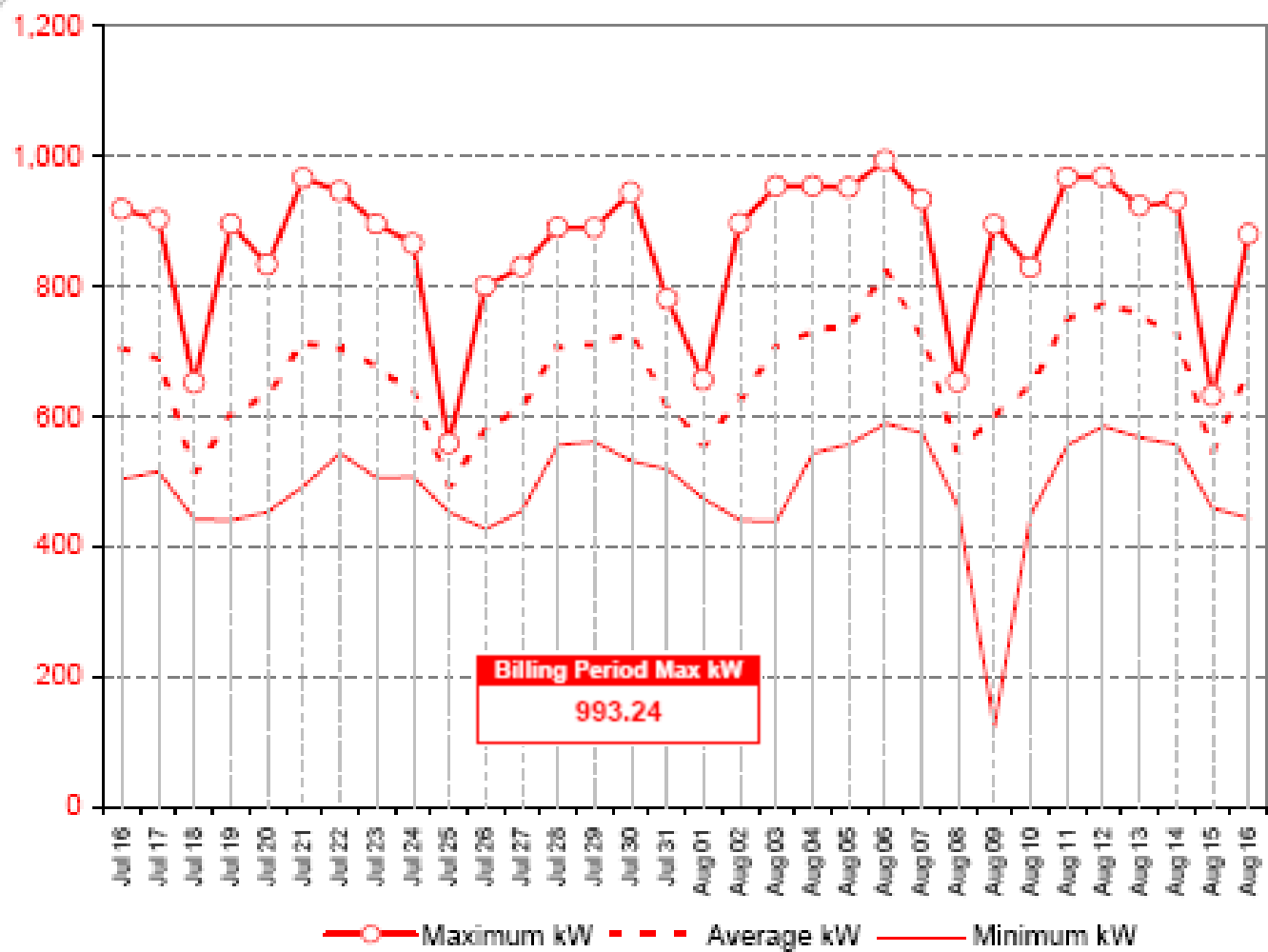
FIGURE 1: FACILITY ENERGY USAGE



ENERGY BILL ORGANIZATION

- Detailed Historic Demand Charts: Xcel Energy

Electric Usage, kWh



SERVICE COMPANY OF COLORADO
 0
 0.8000'
 700
 3203961-2 Page 2 of 2

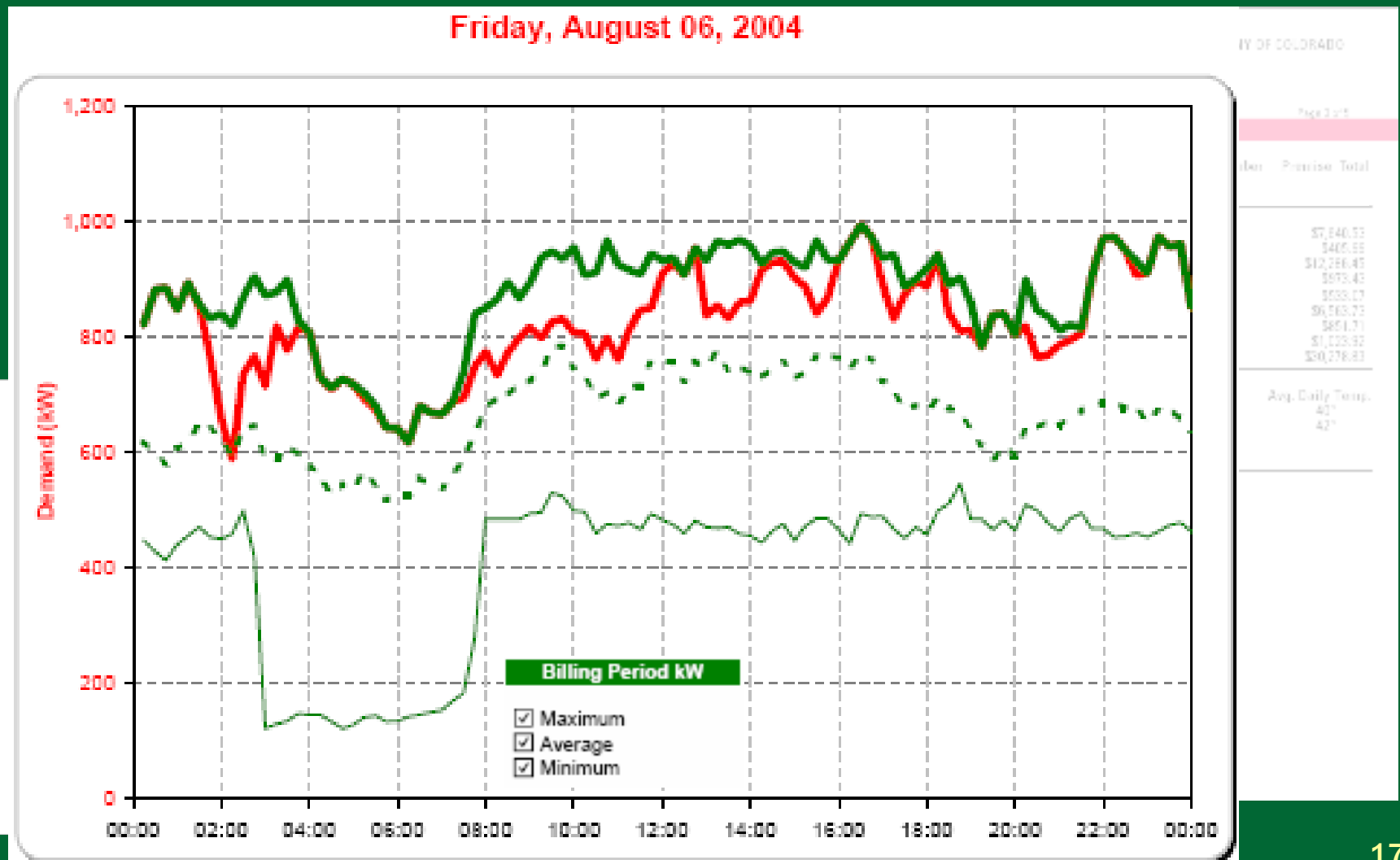
Prorise Number	Prorise Total
	\$7,840.55
	\$460.55
	\$12,286.45
	\$873.45
	\$533.17
	\$9,563.71
	\$851.71
	\$1,033.32
	\$20,278.83

Avg. Daily Temp.
 40°
 42°

Rate charge

ENERGY BILL ORGANIZATION

- Detailed Historic Demand Charts: Xcel Energy



ENERGY BILL ORGANIZATION

■ Detailed Historic Demand Charts: Xcel Energy

Friday, December 03, 2004

OF COLORADO

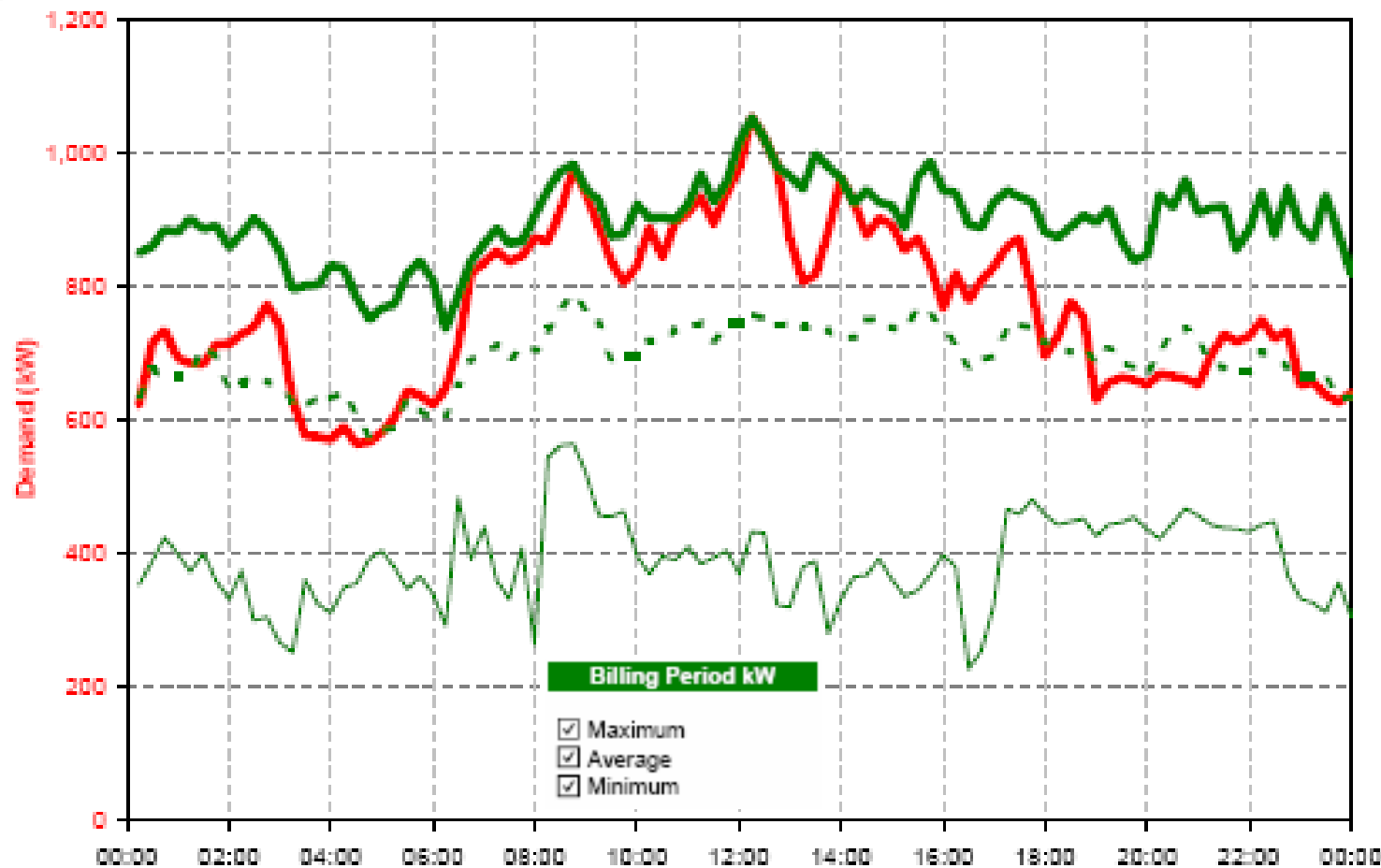
Time 2:07

Price Total

\$7,840.55
\$460.55
\$12,286.45
\$870.45
\$530.17
\$9,760.72
\$851.71
\$1,000.00
\$20,270.05

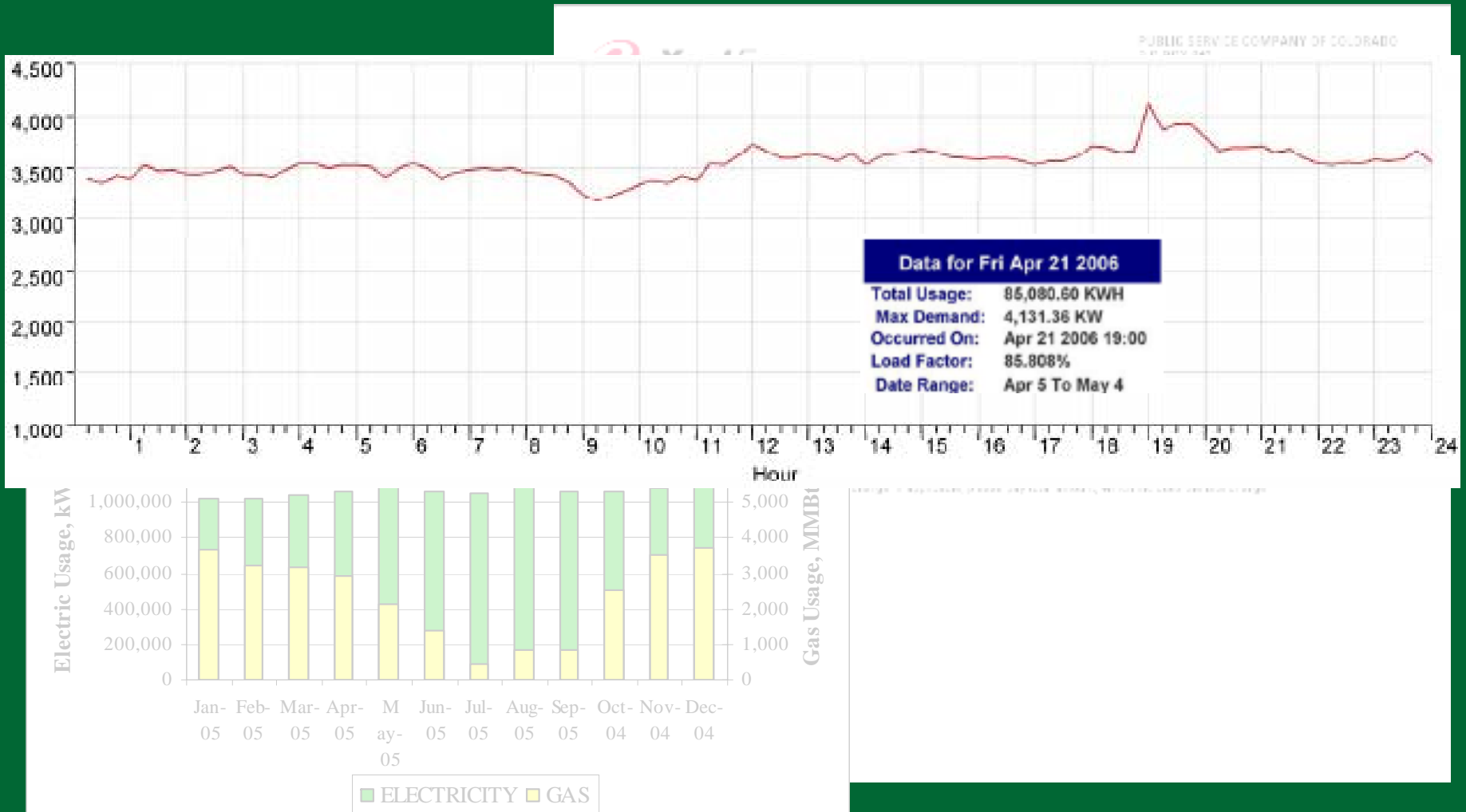
Avg. Daily Temp.
40°
42°

Electric Usage, kWh



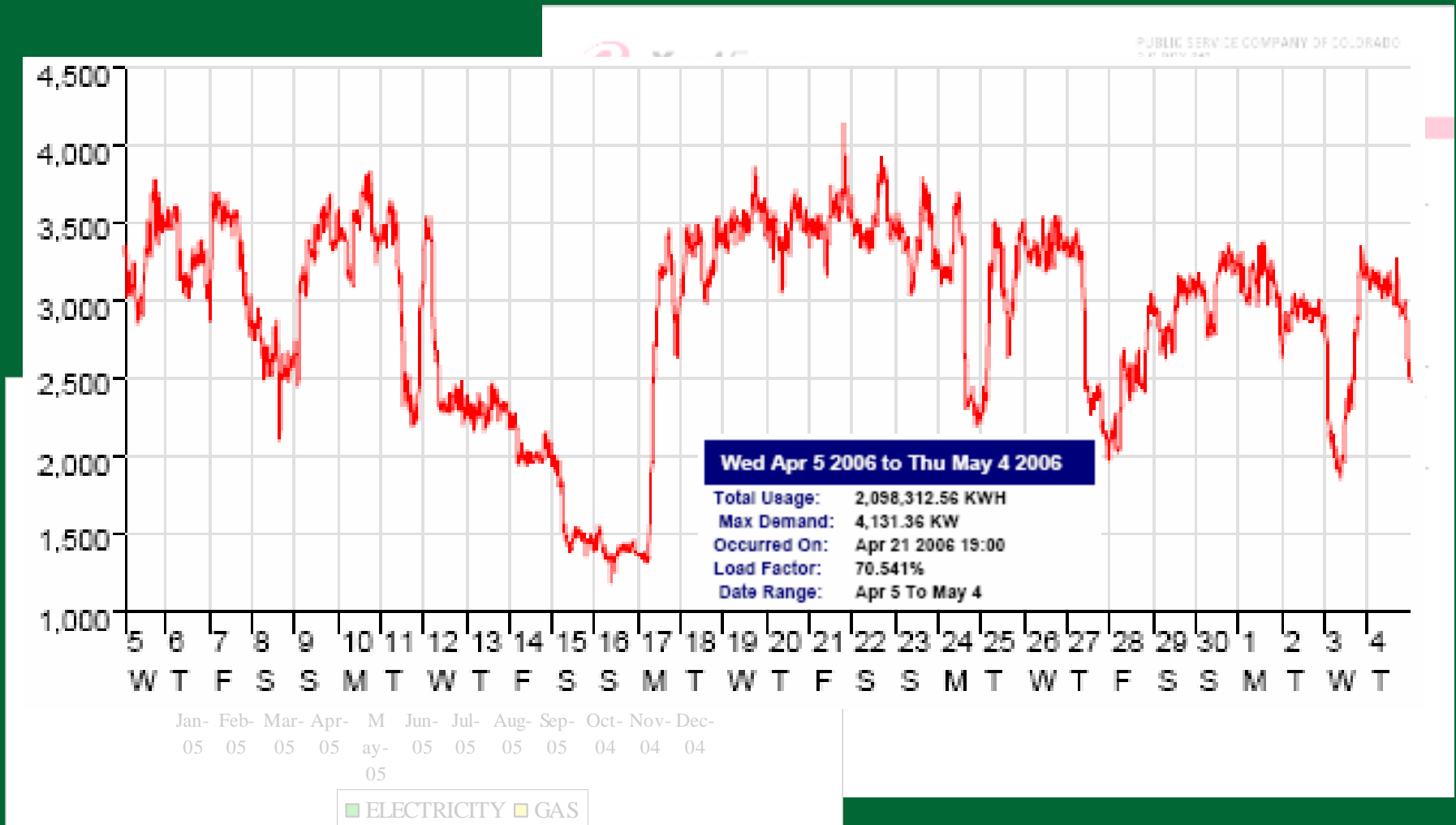
ENERGY BILL ORGANIZATION

■ Historic Demand: Example 2



ENERGY BILL ORGANIZATION

■ Historic Demand: Example 2

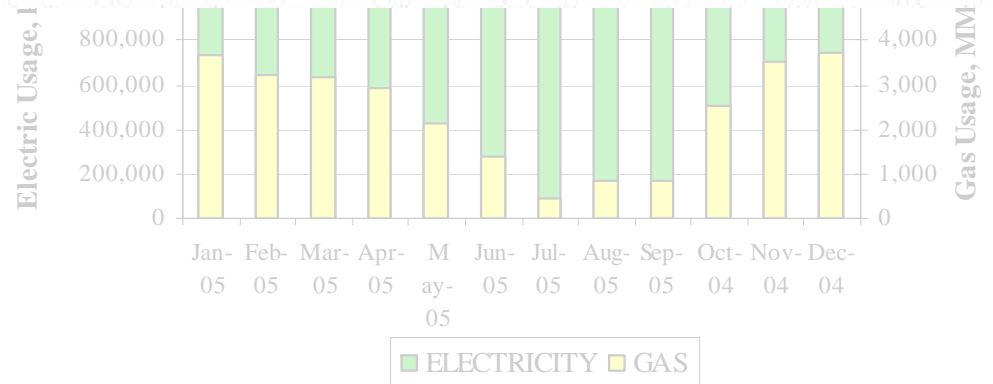
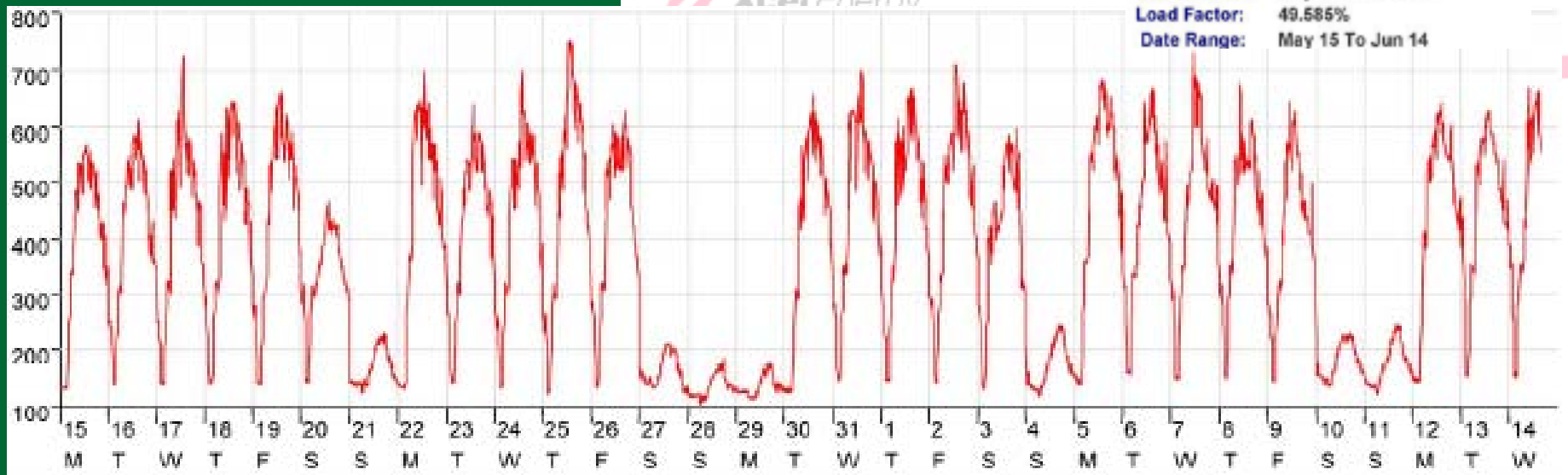


ENERGY BILL ORGANIZATION

■ Historic Demand: Example 3

Mon May 15 2006 to Wed Jun 14 2006

Total Usage: 274,134.78 KWH
 Max Demand: 751.68 KW
 Occurred On: May 25 2006 13:30
 Load Factor: 49.585%
 Date Range: May 15 To Jun 14

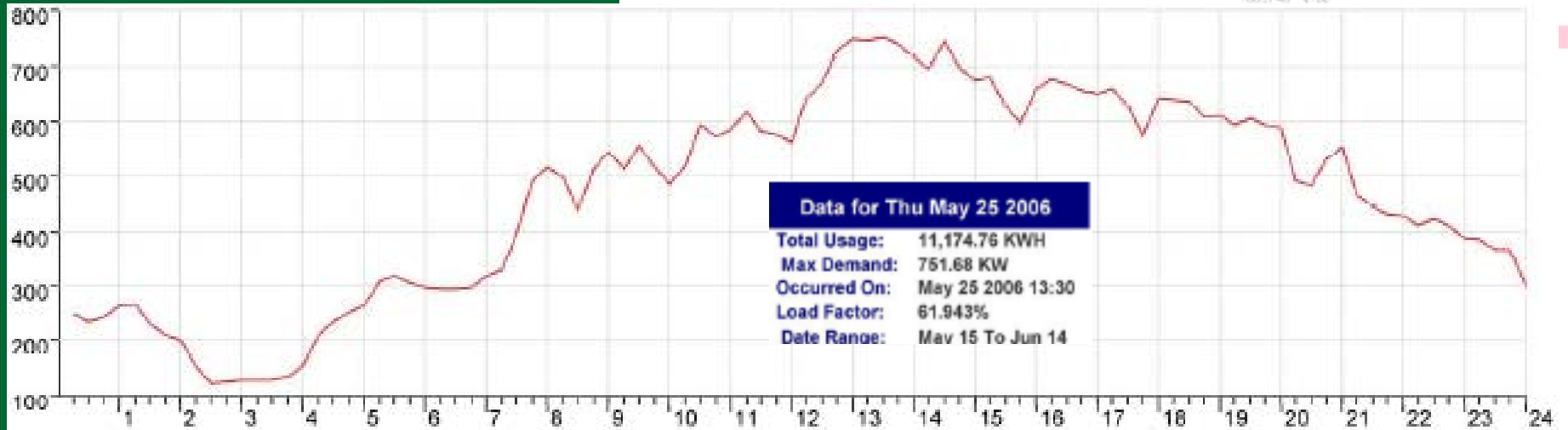


ENERGY BILL ORGANIZATION

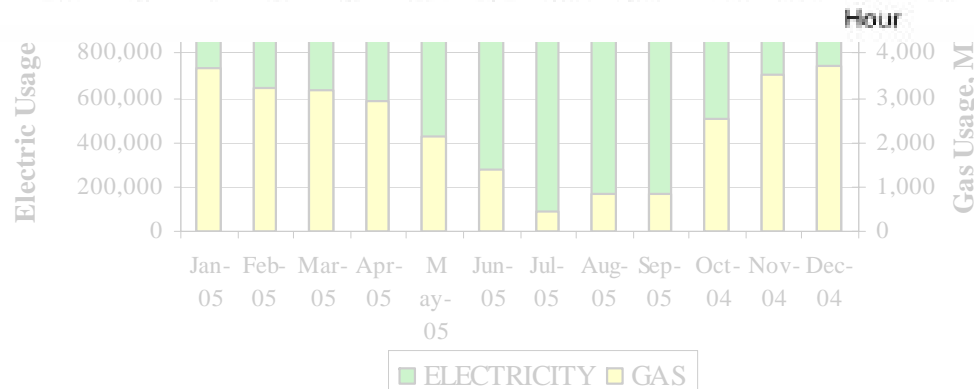
■ Historic Demand: Example 3



PUBLIC SERVICE COMPANY OF COLORADO
 P.O. BOX 940
 DENVER, CO, 80201
 (303) 481-4700

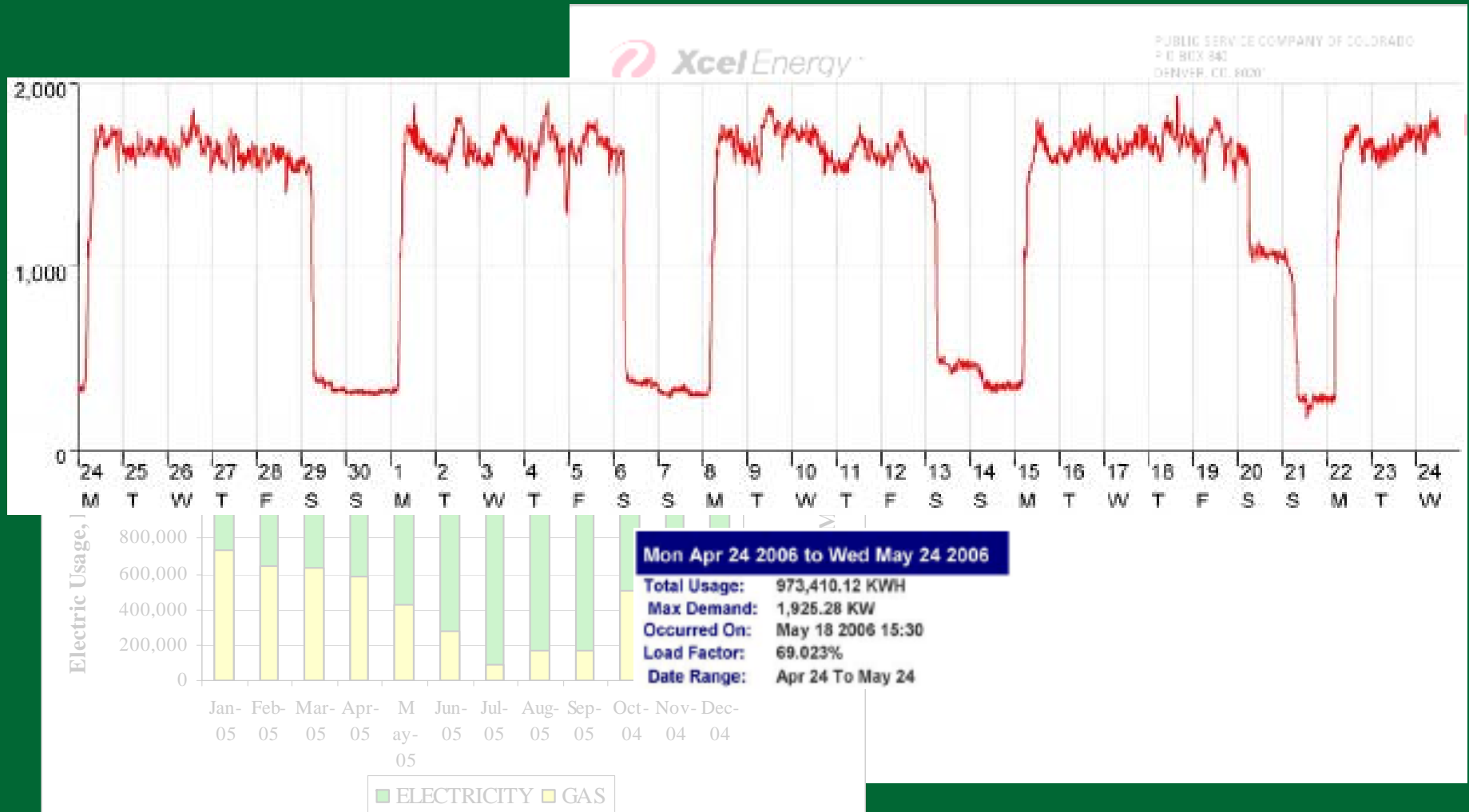


Data for Thu May 25 2006
 Total Usage: 11,174.76 KWH
 Max Demand: 751.68 KW
 Occurred On: May 25 2006 13:30
 Load Factor: 61.943%
 Date Range: May 15 To Jun 14



ENERGY BILL ORGANIZATION

■ Historic Demand: Example 4



ENERGY BILL ORGANIZATION

■ Equipment Demand Example

