FY 2000 Cornell University Energy Fast Facts¹

PRIMARY ENERGY CONSUMPTION					
Primary Consumption (trillion B Coal Electricity (Purchased) Hydro Natural Gas Oil	tu) 1.54 0.71 0.01 0.17 0.00	2.43			
1990 Primary Consumption per Square Foot (million Btu) 2000 Primary Consumption per Square Foot (million Btu)					
END-USE ENERGY CONSUMPTION					

By Building Type:

Lab Buildings TBD
Residence Halls TBD
Other TBD

ENERGY RELATED CO₂ EMISSIONS					
1990 Total CO ₂ Emissions (thousand tons)					
2000 Total CO ₂ Emissions (thousand tons)					
	<u> 1990</u>	2000			
By Primary Energy Type:					
Coal	42%	62%			
Electricity (purchased)	49%	34%			
Hydro	0%	0%			
Natural Gas	5%	4%			
Oil	4%	0%			
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By Utility Type:					
Chilled Water	5%	4%			
Electricity - Procured	49%	34%			
Electricity - Cogenerated	3%	6%			
Steam	48%	60%			

GLOSSARY

BtuBritish thermal unitCO2Carbon DioxidePrimaryCentral Plant UsageEnd UseBuilding metered usageCOPCoefficient of Performance

NOTES

- 1 Information provided is for Ithaca central utility campus only.
- 2 Chilled Water end use Btu are energy input to the central plants for production and distribution of cooling water.
- 3 1990 purchased electric emission rate determined from New York State Electric & Gas (NYSEG) 1990 annual report.
- 4 2000 purchased electric emission rate provided by New York State Public Service Comission (NYSPSC).

CHILLE	D WATER				
1990 Total Chilled Water Product 2000 Total Chilled Water Product	0.34 0.39				
	<u>1990</u>	2000			
Generation Sources Chillers Lake/Free Cooling	83% 17%	89% 11%			
Total Energy Input (trillion Btu) System COP	0.08 4.15	0.11 3.71			
ELEC.	TRICITY				
1990 Total Consumption (mwh) Cornell Generated Purchased 2000 Total Consumption (mwh) Cornell Generated		26,000 175,000 33,000	201,000 242,000		
Purchased		209,000			
Cornell Generated Sources:	<u>1990</u>	2000			
Cogeneration Hydro	81% 20%	89% 13%			
Purchased Electricity Sources ^{3,4} : Biomass Coal Natural Gas Hydro Nuclear Oil Solar Solid Waste Wind	0% 74% 5% 14% 5% 2% 0% 0%	2% 15% 35% 19% 20% 6% 0% 3% <1%			
ST	EAM				
1990 Total Steam Export (trillion 2000 Total Steam Export (trillion			1.31 1.28		
Fuel Sources (10 ¹² Btu) Coal Natural Gas Oil Total Energy Input (10 ¹² Btu) Thermal Efficiency	1.33 0.29 0.13 1.75 68%	2000 1.54 0.17 0.00 1.71 70%			
ADDITIONAL STATISTICS					
Total Enrollment Campus Area (1000 sq. ft.) Square Feet per Student Heating Degree Days (7050 ave.)	1990 18,450 11,800 640 6,919	2000 19,023 13,300 699 6,615			