

Utilities Trivia for the New Brunswick and Piscataway Campuses



	Busch Livingston Campus	College Ave Campus	Cook Douglass Campus
Production Equipment: 12 Mega Watt - 120 Million KWH per Year of Electric, 578.1 Million BTU/hr of Heating, 16,625 Tons of Cooling			
Electric	3 solar turbines – 4.0 megawatts (MW) each Yearly production	12 MW 120 Million KWH 12 MW	
Sub-Total in MegaWatts			
Heat	Recoverable engine exhaust & ductburners 3 boilers	150M. BTU/hr 250M. BTU/hr 400 M BTU/hr	9 boilers, 3 plants 124.1 MBTU/hr 124.1 MBTU/hr
Sub-Total in Million BTU's			
Cooling	East Loop, 6 units West Loop 8 units	4,040 tons 4,510 tons 8,550 Tons	7 chillers, 3 plants 2,775 tons 2,775 tons
Sub-Total in Tons			
Consumption Levels: 178 Million KWH of Total Electric, 25.9 Therms of Total Gas & 766.2 Million Gallons of Total Water			
Electric:	167 million kWh	45 million kWh	66 million kWh
Gas: (1 therm = 100 Cubic Ft)	19 million Therms	2.5 million Therms	4.4 million Therms
Water:	550 million Gallons	79.2 million Gallons	137 million Gallons
Underground Utilities: 192.80 Total Miles			
	Miles	Miles	Miles
Elect. Cable	29	4.23	12.45
HTHW	11.74	1.84	0
Chilled Water	3.06	2.42	2.93
Water	30.1	2.26	12.5
Sanitary	17.36	3.62	10.9
Storm	18.26	3.1	8.8
Mixed Temp.	7.44	0.47	6.32
Air Lines	4	0	0
Sub-Total in Miles			
	120.96	17.94	53.9
2001 Annual Consumption of an Average American Home (2,200 sq.ft.), family of 4 in the Mid Atlantic States (NJ included)			
Electric:	10,656 kWh		
Gas: (1 therm = 100 Cubic Ft)	.76 Therm (76 Cubic Ft.)		
Water:	12,000 Gallons		