

COST TO OPERATE COMPUTERS

The cost to operate computers is a complex issue because every district and every user operates their computer differently. Below are some very simple calculations based on assumptions from studies done nationally and referenced by the Comptroller.

Assumptions:

Cost/KW hr = \$0.10 Over the last three years, it has ranged from \$.10 →\$.15

Total hours in year:

Office - 8,760 hours

Classroom -7,248 hours (does not include summer hours)

Maximum amount of energy used in year by computer if left on

Comptroller – 874 KW hr

Labella - Office: 639.5 KW hr

Classroom : 529.1 KW hr

The following table provides a range of yearly operating cost of computers, using different power scenarios. The maximum annual usage posted in a reference by the NYS Comptroller's office is \$100/year for office computer, with annual savings of \$40/year.

Power Management of Computers

The information Below represents the Cost/yr to run a desktop computer

Power Scenario	Cost/Yr Instructional	Cost/Yr Office
(1) Comptroller		\$ 100.00
(2) Maximum (24/7) Usage	\$ 52.91	\$ 63.95
(3) Minimum Usage 9/5	\$ 12.92	\$ 17.66
(4) Typical Usage	\$ 26.56	\$ 34.53
(5) Power Management Usage	\$ 13.84	\$ 17.93
(6) Labella - Before PM	\$ 26.39	\$ 35.18
(7) Labella - After PM	\$ 14.81	\$ 21.21
Est. Savings Based on above		
Maximum Savings (2) - (3)	\$ 39.99	\$ 46.29
Typical Savings (4)-(5)	\$ 12.72	\$ 16.60
LaBella Savings (6) - (7)	\$ 11.58	\$ 13.97

Example: District containing 646 Instructional Computers (Median for WNYRIC Districts)

Savings Scenerio	1 Yr Savings	3 Yr Savings	License Cost	Net Savings 3 Yrs	Avg Annual Savings
Maximum	\$ 25,833.54	\$77,500.62	\$2,280.38	\$75,220.24	\$25,073.41
Typical	\$ 8,217.12	\$24,651.36	\$2,280.38	\$22,370.98	\$ 7,456.99
Labella	\$ 7,480.68	\$22,442.04	\$2,280.38	\$20,161.66	\$ 6,720.55

Note: Cost of Licenses to Erie 1 for 3 years: 3.53

Notes:

Maximum Usage is based on running computers 24/7. For Office it is based on 365 days

For Classroom it is based on 302 days (excludes summer)

S:cost to operate computers