



ROI analysis

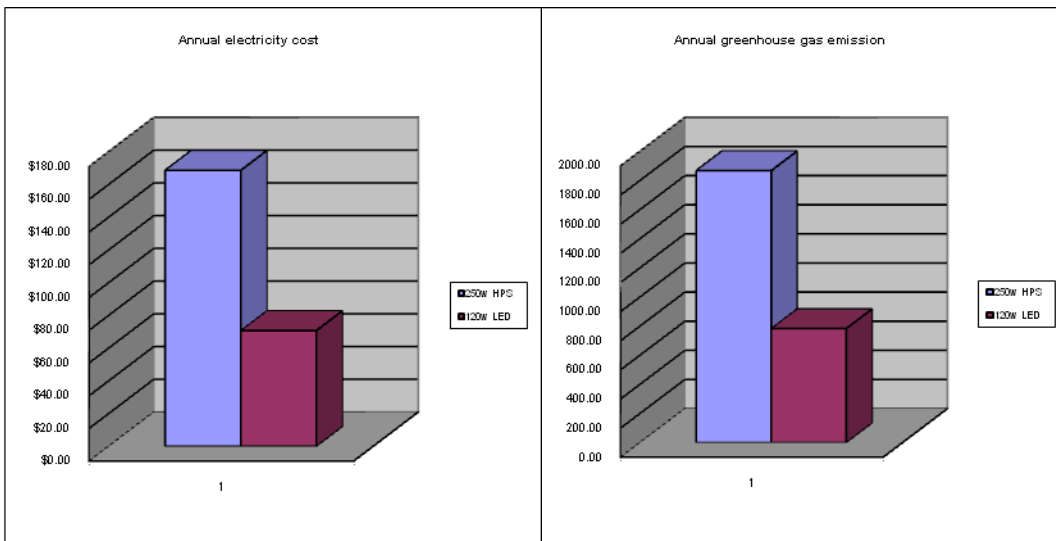
250W high pressure sodium vs. eCOBRIGHT 120W LED street light

Assumptions

Average street lighting	4000.00	hours per year
Electricity rate	\$0.14	per kwh
250w HPS purchase cost	\$260.00	
ecoBRIGHT 120w LED cost	\$1,273.00	
HPS relamping cost	\$280.00	per light (material and labor)
Greenhouse gas emission	1.55	lb/kwh

Electricity and environment

	250w HPS	ecoBRIGHT 120w LED
Power factor	0.83	0.95
Actual current draw	2.51	1.05
Annual Electricity (kwh)	1204.82	505.26
Annual electricity cost	\$168.67	\$70.74
Annual greenhouse gas emission (lb.)	1867.47	783.16
Average product life (years)	2.00	15.00





Cost of ownership

Year	HPS	LED
1	\$428.67	\$1,343.74
2	\$597.35	\$1,414.47
3	\$1,046.02	\$1,485.21
4	\$1,214.70	\$1,555.95
5	\$1,663.37	\$1,626.68
6	\$1,832.05	\$1,697.42
7	\$2,280.72	\$1,768.16
8	\$2,449.40	\$1,838.89
9	\$2,898.07	\$1,909.63
10	\$3,066.75	\$1,980.37
11	\$3,515.42	\$2,051.11
12	\$3,684.10	\$2,121.84
13	\$4,132.77	\$2,192.58
14	\$4,301.45	\$2,263.32
15	\$4,750.12	\$2,334.05
16	\$4,918.80	\$2,404.79

