



ENERGY STAR

ENERGY STAR[®], a U.S. Environmental Protection Agency program, helps us all save money and protect our environment through energy efficient products and practices. For more information, visit www.energystar.gov

ENERGY STAR[®] Advanced Lighting Package (ALP) Energy Bill Savings Chart

This table illustrates the potential annual energy bill and bulb replacement savings that could be realized by using fixtures that earned the ENERGY STAR in your home. ENERGY STAR qualified lighting provides bright, warm light similar to incandescent while requiring less energy, generating less heat, and use bulbs lasting up to 10 times longer.

Electricity price per kilowatt-hour	Fixture quantity	Total annual electricity and bulb replacement savings	Increase to home sales price	Total annual mortgage increase	Net annual electricity and bulb replacement savings	Net savings over bulb life (approximately 9 years)
\$0.16	40	\$1,004	\$500	\$31	\$973	\$8,010
	36	\$904	\$450	\$28	\$875	\$7,209
	32	\$803	\$400	\$25	\$778	\$6,408
	28	\$703	\$350	\$22	\$681	\$5,607
	24	\$602	\$300	\$19	\$584	\$4,806
	20	\$502	\$250	\$16	\$486	\$4,005
	16	\$402	\$200	\$13	\$389	\$3,204
	12	\$301	\$150	\$9	\$292	\$2,403
	8	\$201	\$100	\$6	\$195	\$1,602



The Advanced Lighting Package Defined:

- + A comprehensive set of ENERGY STAR qualified light fixtures and ceiling fans.
- + Must consist of a minimum of 60% ENERGY STAR qualified hard-wired fixtures—indoor and/or outdoor.
- + All ceiling fans must be ENERGY STAR qualified.

ENERGY STAR QUALIFIED LIGHTING USES 75% LESS ENERGY THAN STANDARD LIGHTING AND LASTS UP TO 10 TIMES LONGER





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\$0.14	40	\$886	\$500	\$31	\$854	\$6,974
	36	\$797	\$450	\$28	\$769	\$6,276
	32	\$708	\$400	\$25	\$683	\$5,579
	28	\$620	\$350	\$22	\$598	\$4,881
	24	\$531	\$300	\$19	\$513	\$4,184
	20	\$443	\$250	\$16	\$427	\$3,487
	16	\$354	\$200	\$13	\$342	\$2,789
	12	\$266	\$150	\$9	\$256	\$2,092
	8	\$177	\$100	\$6	\$171	\$1,395



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\$0.12	40	\$767	\$500	\$31	\$736	\$5,937
	36	\$690	\$450	\$28	\$662	\$5,343
	32	\$614	\$400	\$25	\$589	\$4,750
	28	\$537	\$350	\$22	\$515	\$4,156
	24	\$460	\$300	\$19	\$441	\$3,562
	20	\$384	\$250	\$16	\$368	\$2,969
	16	\$307	\$200	\$13	\$294	\$2,375
	12	\$230	\$150	\$9	\$221	\$1,781
	8	\$153	\$100	\$6	\$147	\$1,187



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\$0.10	40	\$649	\$500	\$31	\$617	\$4,901
	36	\$584	\$450	\$28	\$556	\$4,411
	32	\$519	\$400	\$25	\$494	\$3,920
	28	\$454	\$350	\$22	\$432	\$3,430
	24	\$389	\$300	\$19	\$370	\$2,940
	20	\$324	\$250	\$16	\$309	\$2,450
	16	\$259	\$200	\$13	\$247	\$1,960
	12	\$195	\$150	\$9	\$185	\$1,470
	8	\$130	\$100	\$6	\$123	\$980



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\$0.08	40	\$530	\$500	\$31	\$499	\$3,864
	36	\$477	\$450	\$28	\$449	\$3,478
	32	\$424	\$400	\$25	\$399	\$3,091
	28	\$371	\$350	\$22	\$349	\$2,705
	24	\$318	\$300	\$19	\$299	\$2,318
	20	\$265	\$250	\$16	\$249	\$1,932
	16	\$212	\$200	\$13	\$200	\$1,546
	12	\$159	\$150	\$9	\$150	\$1,159
	8	\$106	\$100	\$6	\$100	\$773



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\$0.07	40	\$471	\$500	\$31	\$440	\$3,346
	36	\$424	\$450	\$28	\$396	\$3,011
	32	\$377	\$400	\$25	\$352	\$2,677
	28	\$330	\$350	\$22	\$308	\$2,342
	24	\$283	\$300	\$19	\$264	\$2,008
	20	\$235	\$250	\$16	\$220	\$1,673
	16	\$188	\$200	\$13	\$176	\$1,338
	12	\$141	\$150	\$9	\$132	\$1,004
	8	\$94	\$100	\$6	\$88	\$669



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\$0.06	40	\$412	\$500	\$31	\$380	\$2,828
	36	\$370	\$450	\$28	\$342	\$2,545
	32	\$329	\$400	\$25	\$304	\$2,262
	28	\$288	\$350	\$22	\$266	\$1,979
	24	\$247	\$300	\$19	\$228	\$1,697
	20	\$206	\$250	\$16	\$190	\$1,414
	16	\$165	\$200	\$13	\$152	\$1,131
	12	\$123	\$150	\$9	\$114	\$848
	8	\$82	\$100	\$6	\$76	\$566



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General Assumptions	
estimate	Household fixture quantity.
4.75% Interest 30 Year	Mortgage impact based on. (Source: www.wellsfargo.com, June 2009, base loan \$225,000)
1143	Average annual hours of use (3.13 hours per day).
Base Line Assumptions	
107	Average bulb wattage.
1.64	Average # of sockets/fixture
\$40	Average initial fixture cost
\$0.75	Average annual bulb replacement cost.
1000	Average Rated Lamp Life.
ES Assumptions	
28	Average bulb wattage.
1.64	Average # of sockets/fixture.
\$53	Average initial fixture cost.
\$0	Average annual bulb replacement cost.
10,000	Average rated lamp life.

To learn more, visit our Web site at
<http://www.energystar.gov> or contact
the ENERGY STAR hotline at hotline@energystar.gov
United States Environmental Protection Agency
Office of Air and Radiation (6202J)
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