



Annual Energy Cost Savings Worksheet

Use this 3-part calculation to determine annual energy cost savings resulting from an upgrade of one lamp or system type throughout a facility. This cost savings figure may be compared with the cost of the upgrade to determine simple payback and return on investment (ROI).

NOTE: For fluorescent systems, substitute "lamp" with "system" or "fixture" so that the ballast watts are included.

1. Compute the total power (kilowatts, kW) saved by upgrading older lamps to energy saving replacements

Original Lamp Wattage	Replacement Lamp Wattage	Watts Saved per Lamp	# of Lamps to Replace	Total Watts Saved	Total Kilowatts Saved
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
W	-	W	x	lamps =	W
					÷1000 =

2. Compute the total energy (kilowatt hours, kWh) saved annually by performing this upgrade

Total Kilowatts Saved	Hours of Use per Day	Days of Use per Week	Weeks of Use per Year	Total Energy Saved
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
kW	x	hrs/day	x	days/week
				x
				weeks/year
				=
				kWh/yr

3. Compute the total energy cost savings per year

Total Kilowatts Saved per Year	Your Energy Cost per kWh (Typically \$0.10)	Total Energy Cost Savings per Year
<input type="text"/>	<input type="text"/>	<input type="text"/>
kWh/yr	x	\$
		=
		\$

Initial cost of Lighting Upgrade	Total Energy Cost Savings per Year	Payback in Years
<input type="text"/>	<input type="text"/>	<input type="text"/>
\$	÷	years
		=

Return on Investment (ROI)	Simple Payback in Years	%
<input type="text"/>	<input type="text"/>	<input type="text"/>
100	÷	%
		=
		Simple Payback

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