



United States Department of Agriculture
Natural Resources Conservation Service

Energy Self Assessment

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Step 4: Analysis

What does the output tell me?

The program calculates the amount of light generated from each lamp type selected and then calculates the energy savings potential if an appropriate LED lamp was used to produce the same amount of light. The energy savings value is listed in the summary table. The summary table lists the estimated baseline energy use and the energy use for three types of high efficiency LED lamp / fixtures that are recommended for use in agricultural facilities. If there is a value listed in the table under the lamp type, then it would be an appropriate replacement lamp. If the value is zero, then this is not an appropriate replacement. If all the values are zero, then the lamp is already a high efficiency lamp. The maximum potential savings column selects the highest energy savings from the row and then sums the column to indicate the total potential energy savings.

User Input

Locations	Current Fixture Type	Number of Fixtures	Days per year used	Number of hours used per day
Barn	Compact Fluorescent - 60W - 2 inch	3	20	1

Estimated Annual Energy Savings in kWh

Locations	Current Fixture Type	Current Energy Use	LED A-type Lamps	Linear LED Lamps	High Bay LED Lamps	Potential Maximum Savings
		kWh/yr	Energy savings per year (kWh)			
Barn	Compact Fluorescent - 60W - 2 inch	4	1	2	2	2
Est. Annual Energy Use		4	Total Potential Savings (kWh)			2
Greenhouse Gas Emissions		7 lbs. CO2	Btu			6826
Value of "0" indicates "No Savings" or it's not a recommended replacement.			Percent Savings			49%
			Potential Greenhouse Gas Reduction			3 lbs. CO2

Estimated Annual Cost Savings in \$ USD/Yr

Location	Current Fixture Type	Current Annual Cost	LED A-type Lamps	Linear LED Lamps	High Bay LED Lamps	Potential Maximum Savings	
		\$/yr	Cost savings per year (\$)				
Barn	Compact Fluorescent - 60W - 2 inch	0	0	0	0	0	
Total Lighting Cost (\$/yr)		\$0					
Value of "0" indicates "No Savings" or it's not a recommended replacement.						Potential Total Savings	\$0
						Potential Percent Savings	49%