Kiri
Power Where You Need It

LED vs. CFL vs. Incandescent Light Bulbs Energy Savings Calculator

The following is an LED vs. CFLs vs. Incandescent calculator; you can edit the figure in the green rows to compare the cost of running each of the different technologies against each other.

Energy Savings Calculator/Example				
	Incandescent	**CFL**	**LED**	**Units**
Watts **(electric usage rating of your items, 1 kilowatt is 1000 watts)**	40	13	4	Watts
Watts/1000 = kilowatts or kW	**0.04**	**0.013**	**0.0040**	kW
Hours used in month (use an average)*	180	180	180	Hours
Kilowatts x Hours = Kilowatt Hours or kWh	**7.2**	**2.34**	**0.72**	kWh
Electricity price (in kshs per kWh - **enter the cost you pay**)**	19.8	19.8	19.8	Kshs
kWh x Kshs = Cost (in Kshs to run the item for 1 month	**142.6**	**46.33**	**14.26**	Kshs
Number of the same items in the house	5	5	5	
Cost to run all such items in house for 1 month	**713.00**	**231.65**	**71.30**	Kshs

**Assuming 6 hours a day x 30 days*

***Domestic User Average electricity cost April 2016(KES/kWh) KPLC/ERC – See Appendix for full table of KPLC tariff guide as of April 2016*

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