

LED GLOBE SAVINGS TABLE ON APPLICATION

A comparison to 100watt incandescent / 20watt CFL / 120watt exterior floodlight – a non-sustainable & high energy consumption and lead to contribution to further additional emission of carbon dioxide

LED GLOBE SAVINGS TABLE – 5watt / 13watt / PAR38 floodlight 6.2watt against incandescent / CFL / Floodlight The payback period is from 12months to 24 months on invested capital of LED globe								
category	lifespan/ hour	6hour/day/ watt / 10 units	365 days/ Kwh	\$ Energy cost / year	CO2*/ tonne 10 lamps	\$ cost of carbon***	energy saving Kwh / carbon Kg	\$ saving on power bill***
Incandescent 100w - 240v	8,000	6,000	3990	\$798	5.6	\$140.00	0.00	\$0.00
LED globe 13w - 240v	30,000	780	284.70	\$56.95	0.40	\$10.00	3,706 / 5,1885Co ² -e	\$741.05
CFL 20w - 240v	8,000	1,200	438.00	\$87.60	0.60	\$15.00	0.00	\$0.00
LED globe 5w - 240v	30,000	330	120.45	\$24.10	0.17	\$4.25	318 / 445Co ² -e	\$63.50
Floodlight 120w - 240v	30,000	7,200	2628	\$525.60	3.70	\$92.50	0.00	\$0.00
LED PAR 38 6.2w - 240v	30,000	372	135.80	\$29.15	0.19	\$4.75	2,492 / 3,448Co ² -e	\$496.45
<p>*source from EPA – 1Kwh of brown coal electricity produces 1.4kg of CO²-e (carbon dioxide) or GHG (green house gas)</p> <p>***carbon is assumed at \$25.00 per tonne, and saving on utility bill to be factored @ \$20c per Kwh (extrapolated projection of future rate). This rate including services are likely to increase to accommodate environmental and economic measures of climate changes issues</p>								
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