

Annual Energy savings of a Compact Fluorescent Bulb (cfl) compared to a Incandescent Bulb

	Watts per Bulb	X	Hours per Day	X	Days per Year	X	Total Watts per Year	/	1,000	=	Watts per Kilowatt Hour	X	Cost per Kwh	=	Cost per Year
60 Watt Incandescent	60	X	3	X	365	X	65,700	/	1,000	=	66	X	\$0.09	=	\$5.94
14 Watt CFL	14	X	3	X	365	X	15,330	/	1,000	=	15	X	\$0.09	=	\$1.35

Energy Savings Per Year per Bulb \$4.59

Life of the Compact Fluorescent Bulb is rated at 10,000 hours
Compared to
Life of the Incandescent Bulb rated

Estimated Cost of 14 watt Compact Fluorescent Bulb at \$2.00
Compared to
Estimated Cost of 60 watt Incandescent Bulb at \$0.40

Payback period of 14 watt Compact Fluorescent Bulb
Annual Energy Savings of \$4.59
Additional Cost Difference of \$1.60
Cost Difference of \$1.60 divided by Annual Savings of \$4.59
Equals a Payback Period of 5 Months

	If every Residential Household on AEC's System converted to only one 14 watt cfl, the peaking electrical load could decrease by 1,748 Kilowatts.			If every Residential Household on TVA's Grid converted to only one 14 watt cfl, the peaking electrical load could decrease by 184 Megawatts		
	Watts per Bulb	Number of Residential Housholds	Total Coidental KW Demand	Watts per Bulb	Number of Residential Housholds	Total Coidental KW Demand
60 Watt Incandescent	60	38,000	2,280	60	4,000,000	240,000
14 Watt CFL	14	38,000	532	14	4,000,000	56,000
			1,748 KW			184,000 KW 184 MW