

Thermal Conductivity Lab

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1 LED Light Bulbs

I am proposing that all the incandescent lights in the house be changed out for LED light bulbs. On average one incandescent light bulb cost 32 dollars for two years of use, and on LED light bulb only cost 12 dollars for two years of use. Most of the cost for the incandescent light is for the electricity, while most of the cost of the LED light is upfront cost. My house has approximately 62 incandescent light bulbs at this moment. Two years of use will cost 1984 dollars. If all 62 lights were changed to LED lights, it would only cost 744 dollars for two years of use. Within the first two years there would be 1240 dollars is savings. Since the LED lights would only cost 744 dollars, this project would pay for itself in the first two years of use.