

Lighting Choices

(all these bulbs have same light output)

	cost of 1 bulb	power consumption (watts)	bulb life (years)	cost of bulbs over 20 years	cost of electricity over 20 years	total cost over 20 years
standard incandescent	£ 0.40	60	1			
halogen incandescent	£ 1.20	43	1.5			
compact fluorescent	£ 2.50	13	10			
LED	£ 10.00	10	20			

cost (in £) = power (in kW) x time used (in hours) x cost per unit (assume £0.15)

Assume that each bulb is used for 3 hours per day.

What are the potential problems with predicting cost over a timeframe of 20 years?