

Projected Savings from LED Light Bulb Retrofit

LED Light Bulb retrofit inputs and assumptions:

Product life:	20	years ¹
Watts used by the LED light bulb:	9	watts ¹
Hours of operation per day:	2.81	hours per day ²
Average watts used by the replaced light bulb:	54.08	watts ³
Installation / participation rate of:	62.74%	³
Number of participants:	1,202	³

Projected Electricity Savings:

The LED Light Bulb retrofit projects an annual reduction of:	34,870	kWh ^{2,4}
The LED Light Bulb retrofit projects a lifetime reduction of:	339,975	kWh ^{2,5}

¹ Provided by manufacturer.

² Frontier Associates. (2011). Oncor's LivingWise Program: Measurement & Verification Update.

³ Data reported by program participants.

⁴ $\{[(\text{Average wattage of light bulb replaced} - \text{Wattage of LED light bulb}) \times \text{Hours of operation per day} \times 365 \text{ Days}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$

⁵ $\{[(\text{Average wattage of light bulb replaced} - \text{Wattage of LED light bulb}) \times \text{Product Life}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$