Cartref: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: T8					
# of T8: 132					
	Cost =	Cost of LED + Labor Cost			
Price of LED	¢05.75				
6114 (\$):	\$85.75				
			6114(\$):	\$11319.00	
# of fixtures w/	bulbs <=4:	66	Watts (T8):	32	
# of fixtures w/		0	Watts (LED	16	
<=8:		Ŭ	6114):	10	
# of fixtures w/	•	0			
<=12		-			
Time taken to ch		1650			
(mins) in hours (27.5			
III IIOUIS (, iii) .	Cost of La	hor (¢)	\$962.50	
		Total Cos		\$12281.50	
Δnn	ual Return =	Energy Saving+ La	· · ·	<u> </u>	
Change in		2.112	abor Cost Saving	9	
Hours of ope		2.112			
Total Hour of					
Operation:	2080				
Change in kW-	hr (kWh):	4392.96			
Return on Energy Saving		gy Saving/Yr	±205 2664		
		(\$):		\$395.3664	
Frequency of cha	naina TQ/Vr	0.3467	Life of T8	6000	
		0.5407	(hr):	0000	
Frequency of		0.0416	Life of LED	50000	
LED/Yı			6114 (hr):		
Labor Cost/3 \		\$2217.60			
Labor Cost/3 Y	1.,	\$0.00			
Change in Labor	Cost/3 Yr:	\$2217.60	6 : (2)		
		Return on Labor Saving/3 Yr		\$2217.60	
		(\$):		\$3403.70	
		Total Return / Yr:			
Total Return / Yr: \$1134.57					
# of Years to Breakeven = Cost/Annual Return			10.82		
		# of Years to Br	eakeven (Yr):	10.02	
Smart Idea Incentive:					
Removal of 4-ft Lamp (\$):		\$7.50			
Installation of LED (<18W)		\$15.00			
(\$):		·			
		Total Incentive (\$):		\$2970.00	
		Total Cost-Total Incentive (\$):		\$9311.50	
		Years to Breakeven (Yr):		8.21	

Helfarian: Return on Investment (ROI) w/ Smart Ideas Incentive

Helfarian: Return on Investment (ROI) w/ Smart Ideas Incentive Light Bulb Model: T8					
# of T8:					
# 01 10.		Cost of LED + Labor Cost			
Price of LED			01 0000		
6114 (\$):	\$85.75				
		Cost of LED		\$28812.00	
# of fixtures w/		90	Watts (T8):	32	
# of fixtures w/ <=8:	bulbs >4,	0	Watts (LED 6114):	16	
# of fixtures w/ <=12		0			
Time taken to ch (mins)	_	2250			
in hours (37.5			
	-	Cost of La	bor (\$)	\$1312.50	
		Total Cos	st (\$):	\$30124.50	
Ann	ual Return =	Energy Saving+ La	abor Cost Savin	g	
Change in	kW:	5.376			
Hours of ope	ration:				
Total Hour of Operation:	2080				
Change in kW-	hr (kWh):	11182.08			
			Return on Energy Saving/Yr (\$):		
Frequency of cha	nging T8/Yr	0.3467	Life of T8 (hr):	6000	
Frequency of o		0.0416	Life of LED 6114 (hr):	50000	
Labor Cost/3 Y	r: T8 (\$)	\$5644.80			
Labor Cost/3 Yi	r: LED (\$)	\$0.00			
Change in Labor	Cost/3 Yr:	\$5644.80			
		Return on Labor Saving/3 Yr (\$):		\$5644.80	
		Total Return/3 Yr:		8663.96	
		Total Return / Yr:		2887.99	
# of Years to Breakeven = Cost/Annual Return					
		# of Years to Breakeven (Yr):		10.43	
Smart Idea Incentive:					
Removal of 4-ft Lamp (\$):		\$7.50			
Installation of LE (\$):	ED (<18W)	\$15.00			
		Total Incentive (\$):		\$7560.00	
		Total Cost-Total Incentive (\$):		\$22564.50	
		Years to Breakeven (Yr):		7.81	

Helfarian: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: PAR38						
# of PAR38:						
Cost = Cost of LED + Labor Cost						
Price of LED 1666 (\$):	\$82.15					
1000 (4).		Cost of LED	1666(\$):	\$739.35		
# of fixtures w/ bulbs <=4:		9	Watts (PAR38):	100		
# of fixtures w/ bulbs >4, <=8:		0	Watts (LED 1666):	10		
# of fixtures w/ <=12	•	0				
Time taken to ch (mins)		225				
in hours (hr):	3.75				
		Cost of La	* * *	\$131.25		
		Total Cos	\ \ \ \ \	\$870.60		
		Energy Saving+ La	abor Cost Saving	g		
Change in		0.81				
Hours of ope	ration:					
Total Hour of Operation:	2080					
Change in kW-	hr (kWh):	1684.8				
		Return on Energy Saving/Yr (\$):		\$151.63		
Frequency of o PAR38/		0.52	Life of PAR38 (hr):	4000		
Frequency of o		0.0416	Life of LED 1666 (hr):	50000		
Labor Cost/3 Yr:	PAR38 (\$)	\$151.20				
Labor Cost/3 Yı		\$0.00				
Change in Labor	Cost/3 Yr:	\$151.20				
		Return on Labor Saving/3 Yr (\$):		\$151.20		
			Total Return/3 Yr:			
# of Years to Breakeven = Cost/Annual Return						
		# of Years to Breakeven (Yr):		4.31		
Smart Idea Incentive:						
Removal of 4-ft Lamp (\$):		\$0.00				
Installation of LE (\$):	D (<18W)	\$15.00				
(1)		Total Incentive (\$):		\$135.00		
		Total Cost-Total Incentive (\$):		\$735.60		
		Years to Breakeven (Yr):		3.64		

Gateway: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: T8					
# of T8:	<u>-</u>				
	Cost = Cost of LED + Labor Cost				
Price of LED	\$85.75				
6114 (\$):	\$65.75				
		Cost of LED		\$9003.75	
# of fixtures w/		57	Watts (T8):	32	
# of fixtures w/ <=8:	•	0	Watts (LED 1666):	16	
# of fixtures w/ <=12	•	0			
Time taken to ch (mins)	-	1425			
in hours (23.75			
,		Cost of La	bor (\$)	\$831.25	
		Total Cos		\$9835.00	
Ann	ual Return =	Energy Saving+ La	* - /	g	
Change in	kW:	1.68			
Hours of ope	eration:				
Total Hour of Operation:	2080				
Change in kW-	hr (kWh):	3494.4			
		Return on Energy Saving/Yr (\$):		\$314.50	
Frequency of cha	nging T8/Yr	0.3467	Life of T8 (hr):	4000	
Frequency of LED/Y		0.0416	Life of LED 6114 (hr):	50000	
Labor Cost/3 \	/r: T8 (\$)	\$1764.00			
Labor Cost/3 Y	` ` '	\$0.00			
Change in Labor	Cost/3 Yr:	\$1764.00			
		Return on Labor Saving/3 Yr (\$):		\$1764.00	
			Total Return/3 Yr:		
		Total Return / Yr:		\$902.50	
# of Years to Breakeven = Cost/Annual Return					
		# of Years to Breakeven (Yr):		10.90	
Smart Idea Incentive:					
Removal of 4-ft Lamp (\$):		\$7.50			
Installation of LI (\$):	ED (<18W)	\$15.00			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Total Incentive (\$):		\$2362.50	
		Total Cost-Total Incentive (\$):		\$7472.50	
		Years to Breakeven (Yr):		8.28	

Gateway: Return on Investment (ROI) w/ Smart Ideas Incentive

Gateway: Return on Investment (ROI) w/ Smart Ideas Incentive					
Light Bulb Model: T5 3ft # of T5: 286					
# 01 13.	# of 15: 286 Cost = Cost of LED + Labor Cost				
Price of		JI LLD I LABOI C	2030		
LED(\$):	\$40.50(Estimated)				
		Cost of LED	6114(\$):	\$11583	
# of fixtures w/ bulbs <=4:		76	Watts (Short T8):	30	
# of fixtures v	v/ bulbs >4, <=8:	0	Watts (LED):	16	
# of fixtures w	/ bulbs >8, <=12:	0			
	to change bulbs nins):	1900			
in ho	urs (hr):	31.67			
		Cost of La	• • • • • • • • • • • • • • • • • • • •	\$1108.33	
		Total Cos	· · · /	\$12691.33	
	nnual Return = Energ		r Cost Saving		
	ge in kW:	4.004			
	f operation:				
Total Hour of Operation:	2080				
Change in	kW-hr (kWh):	8328.32			
		Return on Energy Saving/Yr (\$):		\$749.55	
Frequency of ch	Frequency of changing Short T8/Yr		Life of Short T8 (hr):	6000	
Frequency of	changing LED/Yr:	0.0416	Life of LED (hr):	50000	
Labor Cos	st/3 Yr: T8 (\$)	\$4804.80			
	Labor Cost/3 Yr: LED (\$)				
Change in L	abor Cost/3 Yr:	\$4804.80			
		Return on Labor Saving/3 Yr (\$):		\$4804.80	
			Total Return/3 Yr:		
		Total Return / Yr		\$2351.15	
# of Years to Breakeven = Cost/Annual Return					
		# of Years to (Yr)		5.40	
Smart Idea Incentive:					
	4-ft Lamp (\$): LED (<18W) (\$):	\$7.50 \$15.00			
2 22 1100 010 110	(/ (τ/.	Total Incen	tive (\$):	\$6435.00	
		Total Cost-Tot	al Incentive		
		Years to Breakeven (Yr):		2.66	

Gateway: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: PAR38					
# of PAR38:	-				
	Cost = Cost of LED + Labor Cost				
Price of LED 1666 (\$):	\$82.15				
1 1 1		Cost of LED	1666(\$):	\$1807.30	
# of fixtures w/	# of fixtures w/ bulbs <=4:		Watts (PAR38):	100	
	# of fixtures w/ bulbs >4, <=8:		Watts (LED 1666):	10	
# of fixtures w/ <=12	•	0			
Time taken to ch (mins)	_	550			
in hours (hr):	9.167			
		Cost of La	1	\$320.83	
		Total Cos		\$2128.13	
		Energy Saving+ La	abor Cost Saving	9	
Change in		1.98			
Hours of ope	ration:				
Total Hour of Operation:	2080		,		
Change in kW-	hr (kWh):	4118.4			
		Return on Energy Saving/Yr (\$):		\$370.65	
Frequency of o PAR38/	Yr	0.52	Life of PAR38 (hr):	4000	
	Frequency of changing LED/Yr:		Life of LED 1666 (hr):	50000	
Labor Cost/3 Yr:	PAR38 (\$)	\$369.60			
Labor Cost/3 Yi		\$0.00			
Change in Labor	Cost/3 Yr:	\$369.60			
		Return on Labor Saving/3 Yr (\$):		\$369.60	
		Total Return/3 Yr:		\$1481.55	
# of Years to Breakeven = Cost/Annual Return					
		# of Years to Breakeven (Yr):		4.31	
Smart Idea Incentive:					
Removal of 4-ft Lamp (\$):		\$0.00			
Installation of LE (\$):	ED (<18W)	\$15.00			
``'		Total Incentive (\$):		\$330.00	
		Total Cost-Total Incentive (\$):		\$1798.13	
		Years to Breakeven (Yr):		3.64	