



Induction Lighting Retrofit

Facility/Project Name: **Stephen AutoMall Centre**

Facility Owner: _____

Facility Address: **1097 Farmington Ave Bristol Ct. 06010.**

Facility Manager: **Victor Bequary**

Energy Savings

0.1644 Electric kWh Rate:

Existing Fixtures

* Yearly hours calc. 12hrs day operation x 7 days x 52 week =4380 hrs

Description	CRI	Life Span	PF	THD	VOLTS	Watts/Fixture	QTY	Hrs/Year	Total kW	Annual kWh	Annual Energy Costs	20yr Cycle Costs
metal halide flood lights	78	1100	0.89	>10%	207	1150	65	4,380	75	327,405	\$ 53,825	\$ 1,076,508
								4,380	-			\$ -
								4,380	-			\$ -
								4,380	-			\$ -
Totals										327,405	\$ 53,825	\$ 1,076,508

Proposed Fixtures

NEW ENERGY COST PER YEAR

Description	CRI	Life Span	PF	THD	VOLTS	Watts/Fixture	QTY	Hrs/Year	Total kW	Annual kWh	Annual Energy Costs	20yr Cycle Costs
induction floos lights	85	100000	0.98	<10%	207	402	65	4,380	26	114,449	\$ 18,815	\$ 376,310
			0.98	<10%	207		65	4,380	-			\$ -
									-			\$ -
									-			\$ -
Totals										114,449	\$ 18,815	\$ 376,310

ENERGY COSTS SAVINGS	15 Years Total kWh Savings	Annual kWh Savings	Annual Energy Savings	15 Year Life Cycle Energy Savings
	3,194,334	212,956	\$ 35,010	\$ 700,198

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Saving Analysis for Induction Lighting

Facility/Project Name: Stephen AutoMall Centre

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Facility Management Co: Victor Bequary

Labor Savings

Existing Lamps			Labor \$75/Hr.				20yr Cycle Costs-Labor
Bulb Type	Life Span/Hrs	Hrs/Year	Quantity	1 Bulb Change Cost	Aver. Labor Cost/1 Fixt	Total Annual Labor Costs	
metal halide flood lights	1100	4,380	65	\$75.00	\$75.00	\$1,625	\$32,500
BALLAST ONLY	50000	4,380	65		\$75.00	\$0	\$4,875
0	0						\$0
0							\$0
Totals						\$1,625	\$37,375

Proposed Fixtures							20yr Cycle Costs-Labor
Induction Bulb	Life Span/Hrs	Hrs/Year	Quantity	1 Bulb Change Cost	Aver. Labor Cost/1 Fixt	Yearly Labor Costs	
induction flocs lights	100000	4,380	65	\$0.00	0	\$0	\$0
ballast only							\$0
			0				\$0
Totals						\$0	\$0

TOTAL MAINTENANCE LABOR SAVINGS	Annual Maintenance Labor Savings		15 Year Life Cycle Maintenance Labor Saving
	\$1,625		\$37,375

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Material Savings

Existing Lamps

Bulb Type	Life Span/Hrs	Hrs/Year	Quantity	Material Cost	Annual Material Costs	20yr Cycle Material Costs
metal halide flood lights	1100	4,380	65	\$45.00	\$975	\$19,500
BALLAST ONLY	50000	4,380	65	\$53.00	\$0	\$3,445
						\$0
						\$0
Totals						\$22,945

Proposed Fixtures

Induction Bulb	Life Span/Hrs	Hrs/Year	Quantity	Main. Material Cost	Yr Maintenance Costs	20yr Cycle Material Costs
induction floos lights	100000	4,380	65	\$0.00	\$0.00	\$0.00
BALLAST ONLY	100000	4,380	65	\$0.00	\$0.00	\$0.00
			0			\$0.00
			0			\$0.00
Totals					\$0.00	\$0.00

TOTAL MAINTENANCE MATERIAL SAVINGS	Total Annual Maintenance Material Savings	15 Year Life Cycle Total Maintenance Material Savings
	\$0.00	\$22,945.00

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Saving Analysis for Induction Lighting

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Total Combined NET Savings for 15 Year Cycle by Year

15 Years Cycle	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10
Total Net Savings by Year	\$10,717.87	\$51,790.73	\$92,863.60	\$133,936.47	\$175,009.33	\$216,082.20	\$257,155.07	\$298,227.93	\$339,300.80	\$380,373.67
	Year 11	Year 12	Year 13	Year 14	Year 15					
	\$421,446.53	\$462,519.40	\$503,592.27	\$544,665.13	\$585,738.00					

Total Combined NET Savings for 15 Year Cycle by Type

15 Year Energy	\$555,773.00
15 Year Labor	\$37,375.00
15 Year Material	\$22,945.00
Total NET SAVINGS	\$616,093.00

Total Costs of Retrofit and Payback Years

	Cost Per Fixture	Total Cost of Fixtures		Labor Cost Per Fixture	Total Installation Labor
200 Induction Flood	\$392.00	\$25,480.00	Fixture 1	\$75.00	\$4,875.00
		\$0.00	Fixture 1		\$0.00
rebates from local utility		\$0.00	Fixture 1		\$0.00
		\$0.00	Fixture 1		\$0.00
PRICES GOOD FOR 40 DAYS		\$25,480.00	labor \$75 /hr, 1 fixture /hour		\$4,875.00

Total Project Cost (Fixtures + Labor)	\$30,355.00	Project Payback in Years	0.99
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Summary of Savings

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Facility Owner:	0
Facility Management Co:	Victor Bequary

Life Cycle kWh Savings	3,194,334	Simple Pay Back in Years 0.99
Life Cycle Energy Cost Savings	\$700,198.01	
Life Cycle Labor Cost Savings	\$37,375.00	
Life Cycle Material Cost Savings	\$22,945.00	
Life Cycle Gross Cost Savings	\$616,093.00	
Life Cycle Net Cost Savings		

Summary of Benefits

Life cycle air pollution reduction (lbs of CO₂)	4,567,898
Life cycle air pollution reduction (number of cars removed from the road)	3,951
Life cycle air pollution reduction equivalence (acres of forest)	6,229