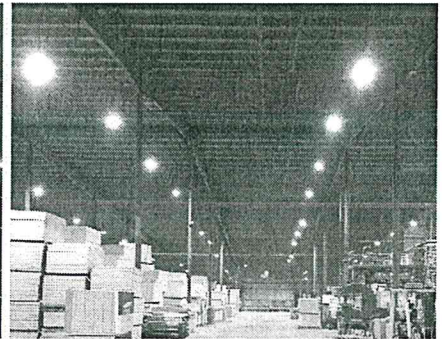
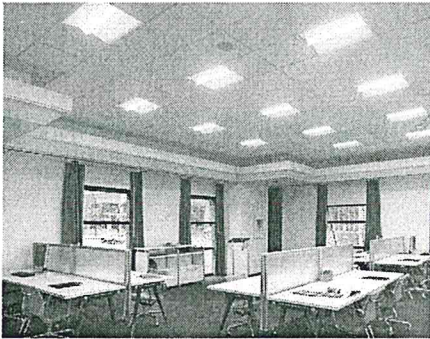


SCES
LED
lights
Gym

✱

ReXel



Building Name
Spencer Co. Elementary School

Proposal Name
Spencer Co. Elementary School LED Proposal

A Proposal For
Jim Oliver
Director of Facilities and Grounds
Spencer Co. Elementary School

Tuesday, June 03, 2014



LED



Executive Summary

Project Overview

Total Material Cost (\$)	7,000
Less Rebates and Incentives (\$)	1,000
Net Cost of Project (\$)	6,000

Annual Operating Savings	
Energy Savings (\$) ^{1,2}	1,061
Maintenance Savings (\$) ³	260
Total Annual Operating Savings (\$)	1,321

Operating Savings Over 10 Years	
Energy Savings (\$) ^{1,2}	10,614
Maintenance Savings (\$)	2,607
Total Operating Savings Over 10 Years (\$)	13,221

Payback Period (yrs)	4.0
Net Present Value (\$) ⁴	4,369
Internal Rate of Return (%)	27.46

1. Energy cost (\$) = 0.0700/kWh; Annual energy cost escalation (%) = 3.76
2. Energy savings are averaged over 10 year analysis period
3. Maintenance costs are averaged over 10 year analysis period
4. Assumed cost of capital (%) = 6
5. Product Tax Rate (%) = 0.00
6. Service Tax Rate (%) = 0.00

Financial Summary

Total Project Cost (\$)	Net Project Cost (\$)	10 Yr Operating Savings (\$) ^{1,2}	Payback Period (yrs)	NPV (\$) ³	IRR (%)
7,000	6,000	13,221	4.0	4,369	27.46

1. Energy cost (\$) = 0.0700/kWh; Annual energy cost escalation (%) = 3.76
2. Operating Savings equals the energy cost savings plus the maintenance savings averaged over the analysis period
3. Assumed Cost of capital (%) = 6
4. Product Tax Rate (%) = 0.00
5. Service Tax Rate (%) = 0.00



Tuesday, June 03, 2014

Jim Oliver
Director of Facilities and Ground
Spencer Co. Elementary School
520 Taylorsville Road
Taylorsville KY 40071

Many businesses are searching for various means to reduce their operating expenses. In many cases, the search need not be any more tedious than simply looking at something most of us take for granted on a daily basis - our lighting systems. By carefully analyzing the equipment and usage patterns of these systems, we can uncover hidden expenditures and provide an optimal return on investment that improves your bottom line and environmental impact.

Our team of energy experts surveyed your facility and compiled data from your existing equipment. The equipment reviewed and analyzed included lamps, ballasts, controls, fixtures, lenses, and/or voltage, lamp temperature, color of light, foot candles, lumens and maintenance schedule.

The Energy Savings Assessment provides a model for retro-fits and upgrade recommendation. It allows us to visualize the energy reduction and financial benefits of the proposed changes as well as the cost of doing nothing. Using the information collected during the audit process and the integrated market data, we can quickly and accurately model various projects and upgrade scenarios. The integration of product performance, market and industry data at the point in time when it's needed is a powerful component of the Energy Savings Assessment's analysis suite.

Ultimately, we can see the impact the recommended efficiency measures will have on a building's energy usage and financial performance. Using equipment and occupancy information collected during the audit, the Energy Savings Assessment enables us to view proposed upgrades and determine how these recommendations compare to the operating cost and energy consumption of the existing equipment. Rexel can quickly create project alternatives and compare them to determine the best return on investment for the customer and the project.

We look forward to discussing the proposed options and working with you to provide your company the best possible solution.

Thank you for the opportunity.

Micah Cheak
Account Manager
Phone: 859-338-9419
Email: Micah.Cheak@RexelUSA.com



Upgrade Summary

Total Cost (\$)	Total Incentives (\$)	Net Cost (\$)	Total Energy Savings (\$) ^{1,2}	Maintenance Savings (\$)	10 Yr NPV (\$) ³	Payback Period (yrs)
7,000	1,000	6,000	10,614	2,607	4,369	4.0

1. Energy cost (\$) = 0.0700/kWh; Annual energy cost escalation (%) = 3.76

2. Energy savings are for the 10-year analysis period

3. Assumed Cost of capital (%) = 6

4. Product Tax Rate (%) = 0.00

5. Service Tax Rate (%) = 0.00

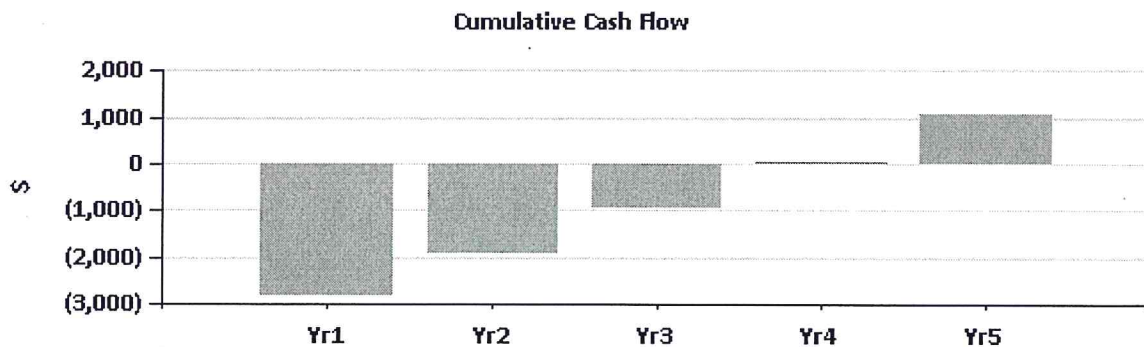
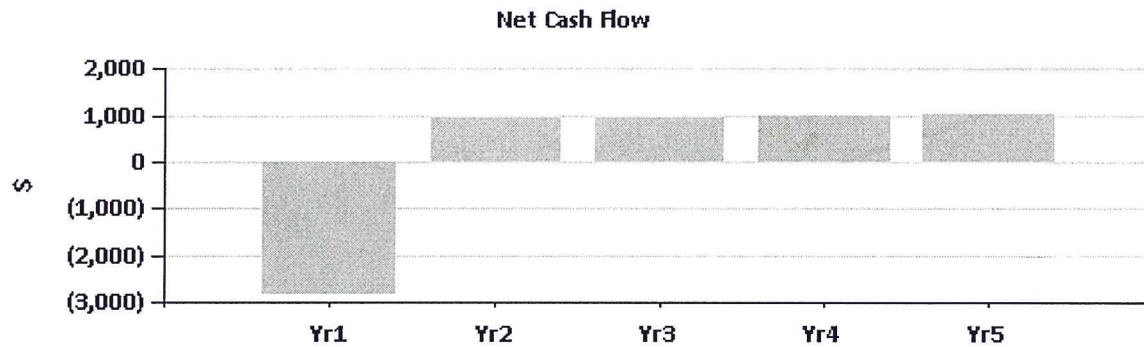
There is no data to be presented for Lighting Controls Summary.



Cash Flow Analysis

10 Year Cash Flow Analysis (\$)

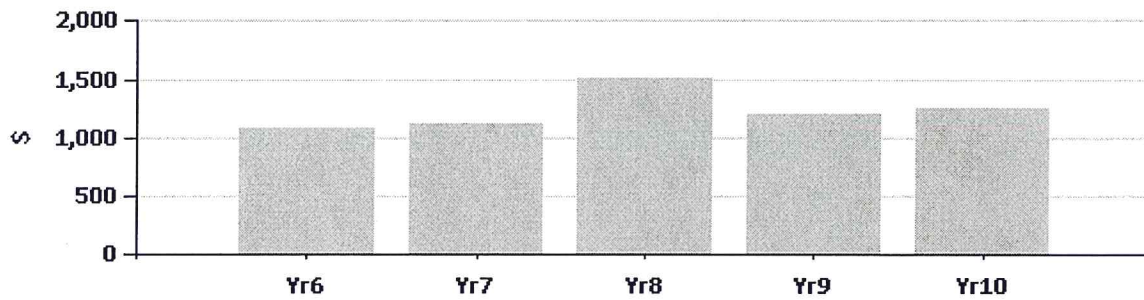
	Yr1	Yr2	Yr3	Yr4	Yr5
Product Costs	7,000	-	-	-	-
Incentives	1,000	-	-	-	-
Energy Savings	894	928	962	999	1,036
Maintenance Savings	2,254	-	-	-	-
Net Cash Flow	(2,852)	928	962	999	1,036
Cumulative Cash Flow	(2,852)	(1,925)	(962)	36	1,073



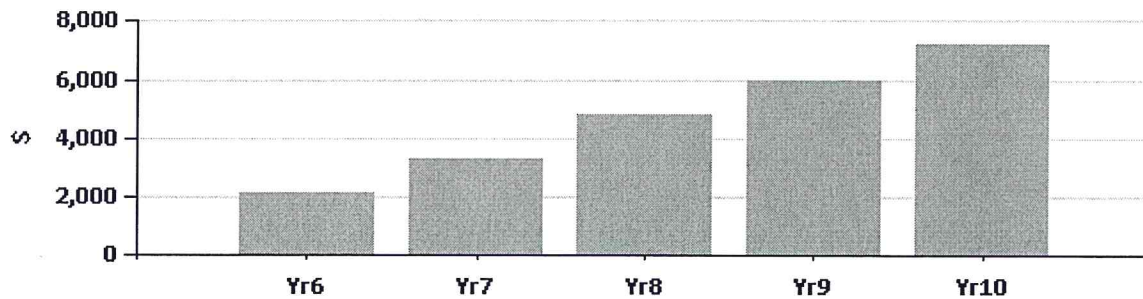
10 Year Cash Flow Analysis (\$)

	Yr6	Yr7	Yr8	Yr9	Yr10	Total
Product Costs	-	-	-	-	-	7,000
Incentives	-	-	-	-	-	1,000
Energy Savings	1,075	1,116	1,158	1,201	1,246	10,615
Maintenance Savings	-	-	354	-	-	2,607
Net Cash Flow	1,075	1,116	1,511	1,201	1,246	7,222
Cumulative Cash Flow	2,148	3,263	4,774	5,976	7,222	7,222

Net Cash Flow



Cumulative Cash Flow

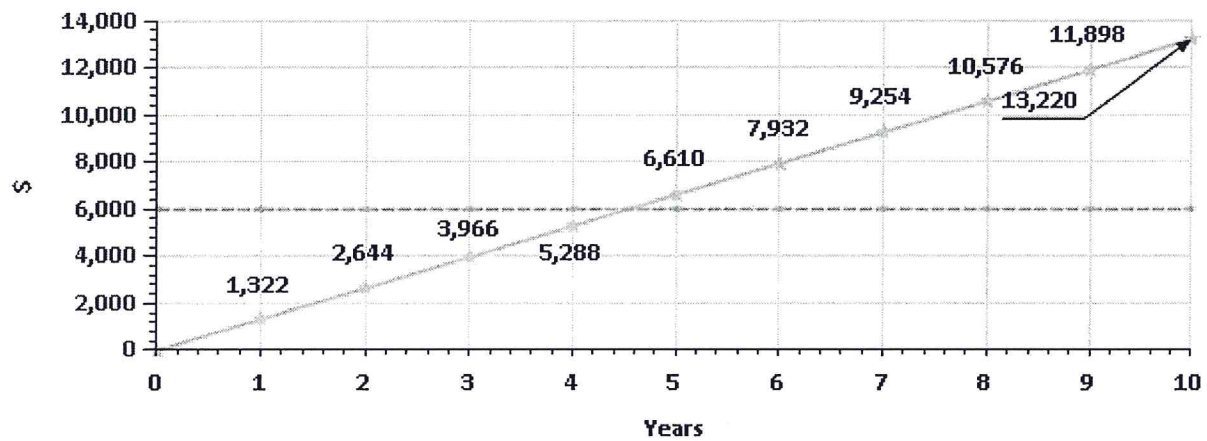




Cost of Waiting

Cost of Waiting

Monthly (\$)	Yearly (\$)	10 Years (\$)
110	1,322	13,220



—●— Cost of Waiting --- Net Project Cost : 6,000

1. Cost of waiting includes energy savings and maintenance savings applied as an average annual amount over a 10 year analysis period

Energy Usages and Costs

Annual Energy Usage			<i>MI</i>	<i>LED</i>		
Current Usage (kWh)	<i>LED</i> Projected Usage (kWh)	Reduction (%)	Current Cost (\$) ^{1, 2}	Projected Cost (\$) ^{1, 2}	Savings (\$)	Cost Savings (%)
19,011	6,240	67	1,580	518	1,061	67

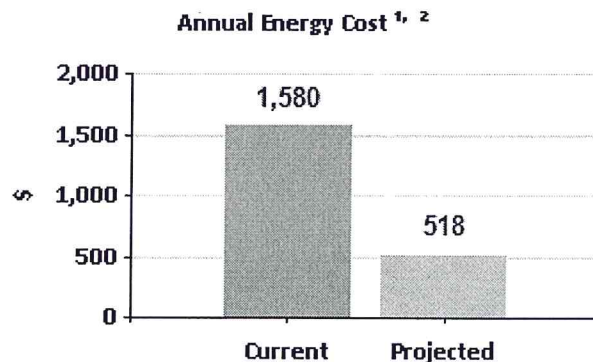
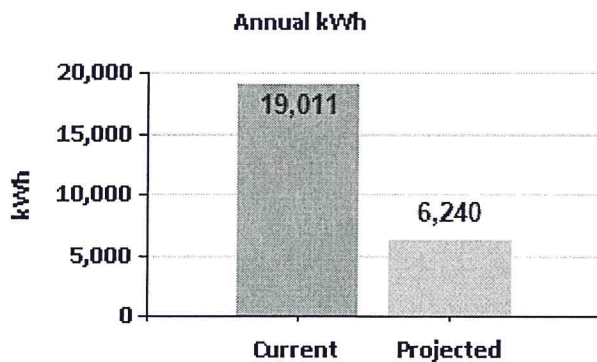
1. Energy cost (\$) = 0.0700/kWh; Annual energy cost escalation (%) = 3.76

2. Energy costs are averaged over 10-year analysis period

Annual Energy Usage Reduction

Current Usage (kWh)	Projected Usage (kWh)	Reduction (kWh)	Reduction (%)
19,011	6,240	12,771	67

Energy Comparison



1. Energy Cost (\$) = 0.0700/kWh; Annual energy cost escalation (%) = 3.76

2. Energy costs are averaged over 10-year analysis period

Watts Summary

Existing Watts ¹	<i>LED</i> Proposed Watts ¹	Reduced Watts	Reduction (%)
9,140	3,000	6,140	67

1. The watts calculations in this table take into account existing fixtures that are being replaced, upgraded, and/or have new lighting controls being proposed for them



There is no data to be presented for Fixture Replacement Wattage Comparison.

Component Upgrade Wattage Comparison

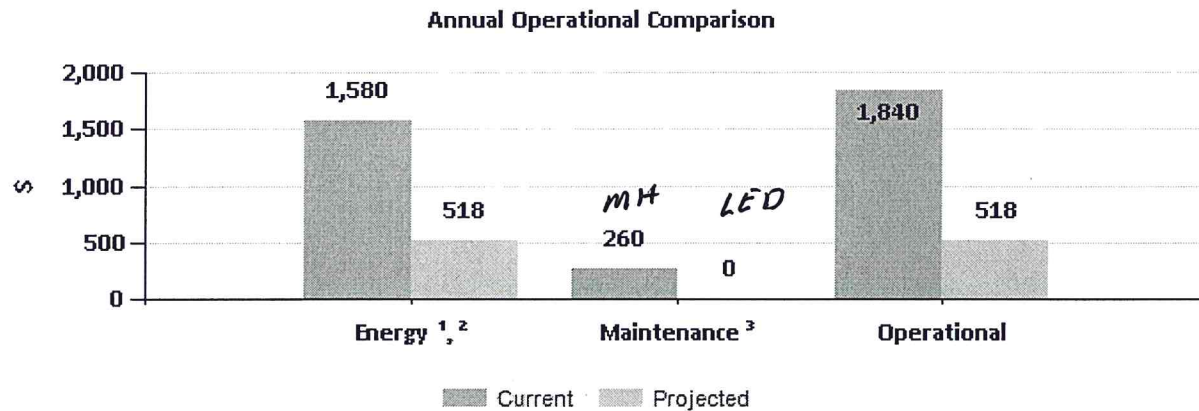
Area :

Space	Existing Fixture	Qty	<i>MH</i> Watts	Total Watts	Proposed Fixture	Qty	<i>LED</i> Watts	Total Watts
Interior :								
High Bay	MH, 400W, Mag Probe	20	457	9,140	Lamps: 1 150W LED Retrofit Ballasts: 0	20 0	150	3,000
Total(s)			457	9,140			150	3,000



Operational Overview

Annual Operational Savings Comparison



1. Energy cost (\$) = 0.0700/kWh; Annual energy cost escalation (%) = 3.76
2. Energy costs are averaged over 10-year analysis period
3. Maintenance costs are averaged over 10-year analysis period



Upgrade Analysis

There is no data to be presented for Fixture Replacement Summary.

Component Upgrade Summary

Existing Fixture	Qty	Proposed Upgrade	Qty
MH, 400W, Mag Probe	20	Lamps: 1 150W LED Retrofit	20
		Ballasts: 0	0
Total Fixtures:	20	Total Lamps:	20
		Total Ballasts:	0



Bill of Materials

Products

Component Upgrade

Part Number	Short Description	Qty	Cost (\$)	Extended (\$)
LED 8030M57	150W LED Retrofit	20	350.00	7,000.00
Total(s)				7,000.00

There is no data to be presented for Installation.

There is no data to be presented for Additional Items.

There is no data to be presented for Additional Cost.

Appendix

Incentives

Rebates and incentives are estimated and subject to change. All rebates require preapproval from your utility company or partner. Actual rebate amounts received may vary and are subject to utility program rules and conditions.

Description	Amount (\$)	Est. Receipt Date
Salt River RECC Estimated Rebate	1,000.00	Immediate
Total(s)	1,000.00	

Disclaimer

Recycling costs, labor costs, and taxes are not included.

All sales transactions are subject to credit approval. Any quotation and all transactions with Rexel are conditioned upon Rexel's Terms and Conditions of Sale located at <http://www.rexelusa.com/terms>. Quotation is valid for 30 days after the date of issue unless otherwise specified with the exception of commodity items. Quotation for commodity items is valid for the day of the quote only unless otherwise specified. All amounts quoted do not include state, local or municipal taxes of any kind. Applicable sales tax will be added at the time of the sale.