



ENERGYRIGHT SOLUTIONS FOR BUSINESS + INDUSTRY

TOM IRWIN
PROGRAM MANAGER, NE
DISTRICT

TVA'S HISTORY



Founded in 1933, TVA has worked tirelessly to make life better for the people of the Tennessee Valley region, which spans 80,000 square miles across parts of seven Southeastern states.

TVA'S MISSION



Energy

Provide affordable electric power throughout the Tennessee Valley Region



Environment

Act as a steward of the Valley's natural resources



Economic Development

Serve as a catalyst for sustainable economic development



Top Dozen Questions To Ask Your Utility

1 What recommendations do you have to help me control my utility costs?

2 Are there other rate options that I should consider that might help me control my costs?

3 What programs are available that might benefit me?

4 Do you have a list of equipment and service providers that I might consider contacting?

5 Are there any complimentary state or federal programs that might be helpful to me?

6 Are there any programs available that encourage or support investment in my facility?

Top Dozen Questions To Ask Your Utility

7 Should I purchase an energy management system for my facility?

8 What new or developing technologies might be of benefit to me now or in the near future?

9 Should I purchase a standby generator?

10 What can I do to improve the quality or reliability of my power?

11 Should I have preventative maintenance performed on my mechanical equipment?

12 Who else do you know that I might need to know?



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www.EnergyRight.com

THANK YOU!

Lighting Retrofit Case Studies



Customer Information

Project #	ERS05_010893
Project Site	Womens Basketball Hall of Fame
Company	Hall of Fame Management Inc

Simple Payback

Initial Cost	\$36,727.00
Incentive	\$8,072.20
Other Reductions	\$0.00
Final Cost	\$28,654.80

Current View
As-installed
Post-Measurement Incentive
22% of Project Cost Paid by Incentive

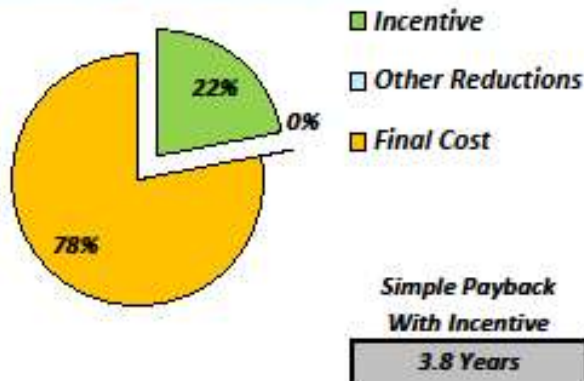
Contractor Information

Company	Shoffner Mechanical Services	
First, Last Name	Chuck	Shuman
Email	cshuman@skmes.com	

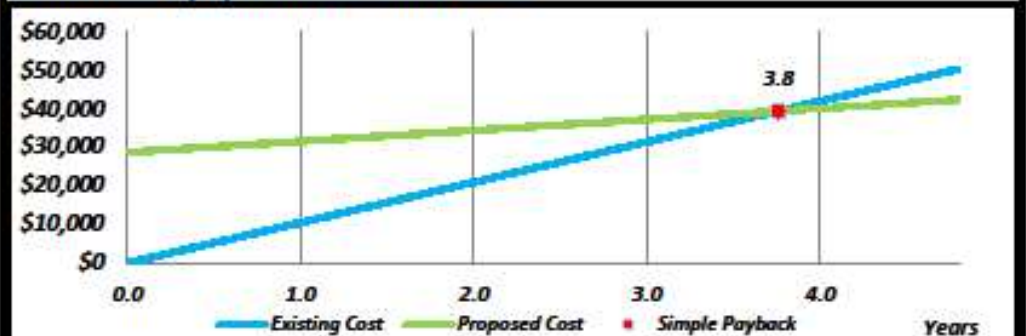
Estimated Usage

Annual Values	Existing	Proposed	Savings	TVA Savings
kW	35.83	9.72	26.11	28.21
kWh	82,642	22,398	60,244	80,722
Utility Bill Costs	\$10,461.71	\$2,836.71	\$7,624.99	(Office Use)

Percent of Initial Project Cost



Estimated Equipment Electrical Costs





Customer Information

Project #	
Project Site	Ripley's Aquarium Of The Smokies
Company	Ripley's Aquarium Of The Smokies

Simple Payback

Initial Cost	\$89,742.10
Incentive	\$60,908.00
Other Reductions	\$18,000.00
Final Cost	\$10,834.10

Current View
Preliminary
Standard Incentive
68% of Project Cost Paid by Incentive

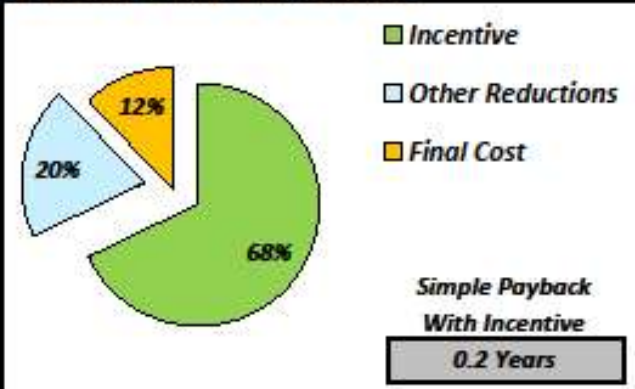
Contractor Information

Company	Shoffner Mechanical Services	
First, Last Name	Leon	Cornett
Email	lcornett@skmes.com	

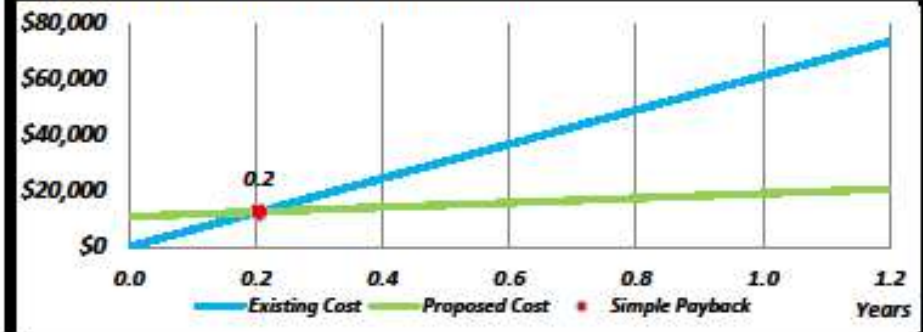
Estimated Usage

Annual Values	Existing	Proposed	Savings	TVA Savings
kW	97.88	13.93	83.95	82.74
kWh	695,083	93,161	601,922	609,082
Utility Bill Costs	\$61,167	\$8,198	\$52,969	(Office Use)

Percent of Initial Project Cost



Estimated Equipment Electrical Costs



Variable Speed Drive Analysis Sheet

CLIENT :
Date : #####

Motor Size (HP)	5
Full Load Amps	50
Supply Voltage	208

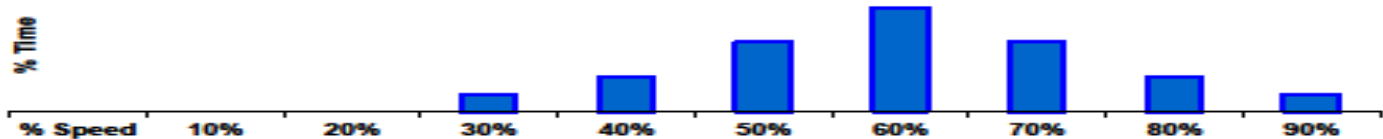
Poles (#)	3
Frequency (Hz)	60
Speed (RPM)	1725

System

Amps Drawn	47	Amps.
kW Drawn	31	Kw

Calculated kW	14.4
Power Factor	

Estimated Load With VFD



Operating Costs

Average Cost 0.11 /Kwh Run Hrs 8,760 Hrs

Present	
Current Cost	\$29,871.60

With VFD	
Estimated Cost	\$11,910.20

Savings and Payback

With a max current draw of 47 Amps, a Variable Frequency Drive of 40 HP would have sufficient capacity.

Cost of VFD **\$6,500.00**

Estimated Savings **\$17,961.40**

Payback Period **0.4** Years

Supplied by Name _____

Questions?