Calculating Savings



The following example compares two lighting options: the old incandescent lighting most of us grew up with and the new compact florescent that many of us are changing to.

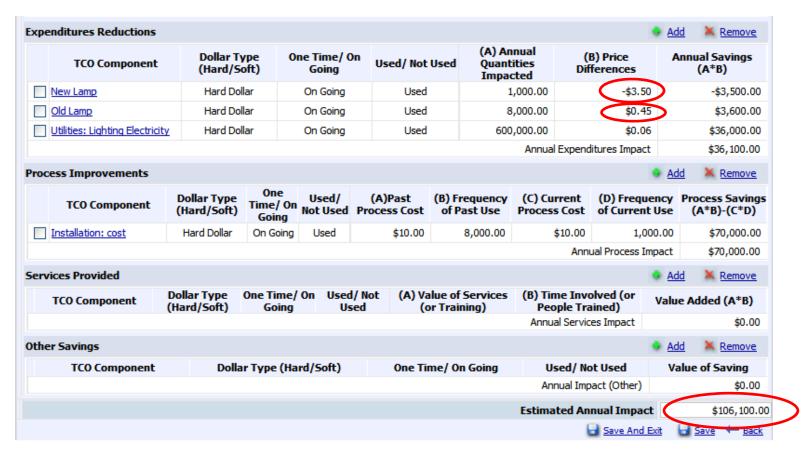
In order to calculate the savings, we need some baseline information. This example looks at an office building, hotel, or plant where incandescent lighting is used.

Question	Answer	UOM
1 What is the unit price of the original product being used?	.45	Dollar Value
1 What is the unit price of the replacement product?	3.50	Dollar Value
2 Need to convert between Watts and Kilowatts, enter: 1,000.	1,000	1,000
2 Need to differentiate the old from the new price, enter: -1.	-1	-1
3 How many sockets are there in the plant?	2,000	Physical Count
3 What does it cost in labor to perform each installation?	10.00	Dollar Value
3 What is the life, in hours, for the new lamp?	8,000	Number of Hours
3 What is the life, in hours, for the old lamp?	1,000	Number of Hours
3 What is the wattage for the new lamp?	25	25 Watts
3 What is the wattage for the old lamp?	100	100 watts
How many days does the plant operate per year?	250	Number of Days
How many hours does the plant operate per day?	16	Number of Hours
What cost does the customer pay for a single kilowatt?	.06	Dollar Value

Please note that the numbers are just examples and may not reflect your costs. This is just one example of how to measure Total Cost savings.

Note: calculators such as this can be built for any product or service that reduces the customer's total operating costs.

Based on the information of the previous page, this customer would save \$106,100 per year for paying \$3.50 per light bulb verses the original \$0.45.

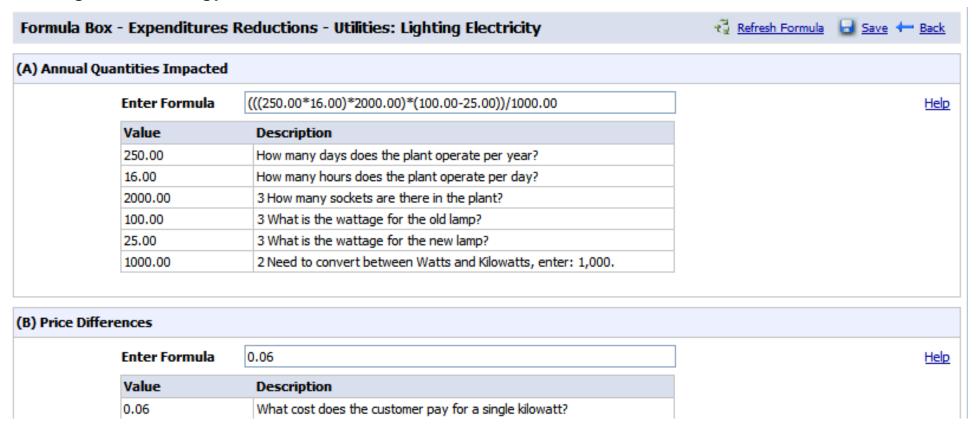


How is this savings calculated? By evaluating three cost drivers:

- 1. Price: while the new product costs more per unit, it lasts longer, requiring fewer units
- 2. Energy: The new lamp only uses 25 watts versus the 100 watts used by the old lamp
- 3. Installation or personnel costs: since the new bulb lasts longer (8 times as long) maintenance time can be reduced

So how can you know the savings are real? In this case, the saving calculations can be followed below:

- 1. The plant operates for 250 days a year (how many days the lights are on)
- 2. Multiplied by the hours per day the lights are on (16) and you get the hours per year all the lights are on.
- 3. Multiply this by 2,000, the number of lights in this building and you get the energy hours consumed per year.
- 4. If you then multiply this by the difference in wattage (100 vs 25 watts) you get the energy reduction



Report Date:

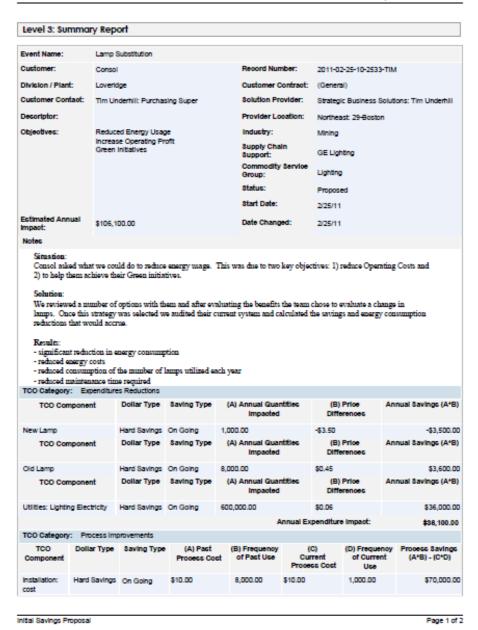
5/18/11

Add in a write up, and you have a sample report that allows you to discuss the benefits of substituting products.

Not only does this show the potential total cost savings, it also points out why some customer personnel (maintenance and/or operations for example) might want to work with a supplier that offers products and services that cost more, but save them time and other costs.

Purchasing: imagine being able to evaluate suppliers on a Total Cost basis, how would having such reports help you hake sound financial purchasing decisions?

Sales: imagine being able to prove you are the lowest total cost supplier.
Imagine the competitive advantage it could create.



Now imagine the impact if you could use this to understand the Return on Investment and Payback periods from such products.



Thank You for Your Time

If you have any questions or comments, please feel free to contact us.



Strategic Business Solutions, L.L.C. (918) 494-8085 Tim.Underhill@sbs4me.com