



Cash Financial Analysis

After the lighting survey conducted on site, the following calculations and estimates can be made:

Demand for Lighting per hour	
Before	After
2.046 kWh	0.281 kWh

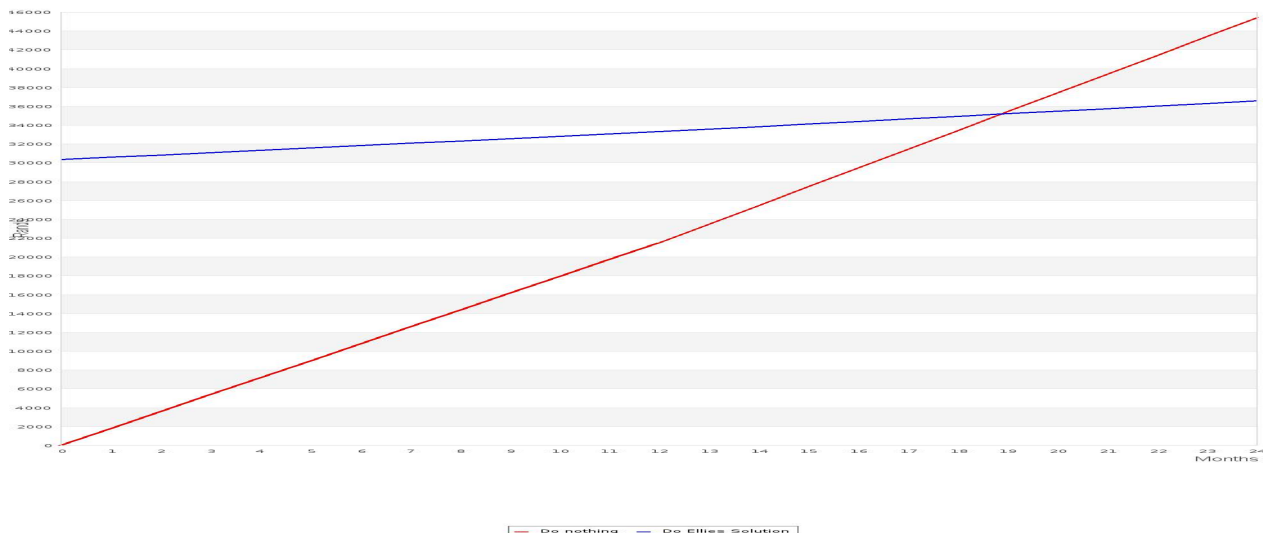
Electricity Consumption per day	
Before	After
49.110 kWh	6.739 kWh

Monthly Cost	
Before	After
R 1,792.50	R 245.96

Project Cost ex VAT
R 30,351.28

Expected Monthly Saving
R 1,546.55

% Saving
86%



The breakeven point is calculated as the amount of time (in months) that the savings achieved from retrofitting old technologies will take to recover the initial project expense.

How the calculations are done (unrelated example)

The running costs indicated below is based on 10 burning hours per day (07:00 until 17:00) for 25 days per month. A cost of R1.00 per kWh is assumed.



4ft Fluorescent
36W

0.036 kWh



4ft LED Tube
20W

0.020 kWh



Incandescent Lamp
60W

0.060 kWh



A60 LED Lamp
7W

0.007 kWh



Halogen Lamp
50W

0.050 kWh



LED Lamp
6W

0.006 kWh

Cost per Hour:	≈ R0.04	≈ R0.02	≈ R0.06	≈ R0.01	≈ R0.05	≈ R0.01
Cost per Day	= R0.36	= R0.20	= R0.60	= R0.07	= R0.50	= R0.06
Cost per Month	= R9.00	= R5.00	= R15.00	= R1.75	= R12.50	= R1.50

JOHANNESBURG

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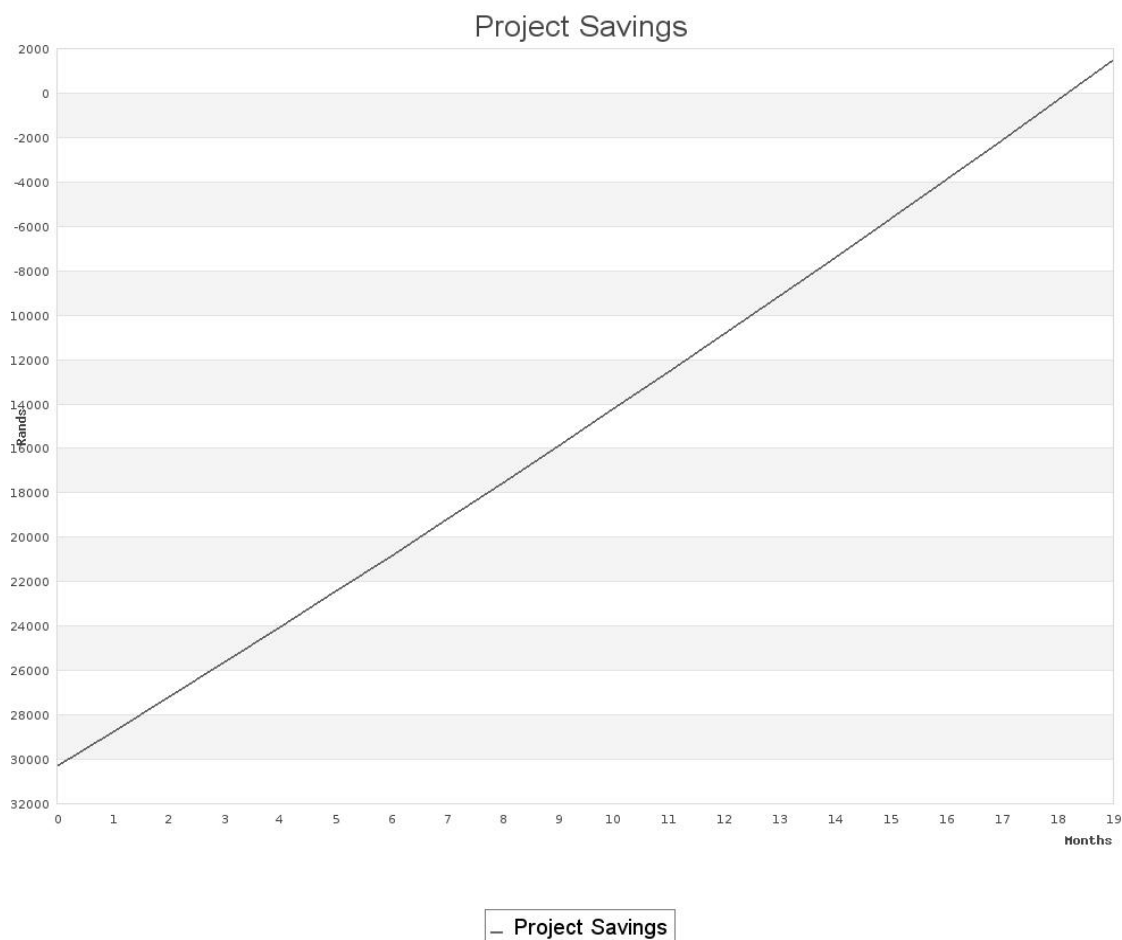
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Replacement Items Overview

Payback Period	Monthly Savings	Percentage Saved(%)	Savings after 5 years
18.87 Months	R1,546.55	86%	R 85,227.84

Cost Overview - Cash Option

Category	Product Price	Installation	Total Price
Replacement Products	R30,351.28	R0.00	R30,351.28
Additional Products	R0.00	R0.00	R0.00
Total	R30,351.28	R0.00	R30,351.28



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Project Details

Type of Premises (Mark with x): Business Home **x** Other

Company Name	Powermet	Contact Person	Justin Brivik
Physical Address	Morningside house	Telephone	0826937484
		E-mail	justinb@powermet.co.za
Telephone	0826937484	Date	2015-08-31

Additional Information

Project Manager	Ari Salkow	Region	Green Franchise 1
Installer	Dean Goldbaum		
Sales Rep	Ari Salkow		
Electricity Supplier	Eskom	Type of Connection	Single Phase Three Phase x
Cost per kWh	R 1.2	Meter Number	231243

Consumption Data and Installation Details

Electricity Accounts	Travel (km)	Ceiling Height	Contingency
	0	2.80	0.00
	Installation x		

Notes:

None

Scope of Works

This project entails the supply and installation of 29 efficient lighting technologies to retrofit or replace 29 inefficient lighting sources found at the premises of Powermet. Measurements were done to show savings in consumption more accurately. No measurements were done, which means that all savings are based on estimated values. Work to be completed per specified location is described below.

Replacement Products

Area	Old Technology	Quantity	Replacement Technology	Quantity	Hours Operated	Replace Fitting
First Floor - TV Room	E27 - 150W - Incandescent	4	16W PAR38 Warm White E27	4	4	E27
First Floor - TV Room	B22 - 100W - Incandescent	1	9W LED GLS man dim WW B22	1	4	GLS
First Floor - Patio	E27 - 150W - Incandescent	6	16W PAR38 Warm White E27	6	4	E27
First Floor - Domestic Area	B22 - 60W - Incandescent	5	9W LED GLS man dim WW B22	5	4	GLS
First Floor - Kitchen	Halogen 50W MR16	9	6W GU10 WW Dimmable	9	4	GU10
First Floor - Kitchen	B22 - 60W - Incandescent	1	9W LED GLS man dim WW B22	1	4	GLS
First Floor - Entrance lounge	Halogen 50W MR16	7	6W GU10 WW Dimmable	7	4	GU10
First Floor - Entrance	Halogen 50W MR16	9	6W GU10 WW Dimmable	9	4	GU10
First Floor - Play room	Halogen 50W MR16	9	6W GU10 WW Dimmable	9	4	GU10
First Floor - Dining room	B22 - 60W - Incandescent Candle	14	5W Candle WW B22 Dimmable	14	4	B22

First Floor - Outside	Flood MBL - 500W	3	80W LED Floodlight	3	10	Flood
First Floor - Outside	B22 - 100W - Incandescent	1	9W LED GLS man dim WW B22	1	10	GLS
First Floor - Pantry	B22 - 60W - Incandescent	1	9W LED GLS man dim WW B22	1	4	GLS
First Floor - Guest toilet	Halogen 50W MR16	3	6W GU10 WW Dimmable	3	4	GU10
First Floor - Hallway	Halogen 50W MR16	3	6W GU10 WW Dimmable	3	4	GU10
First Floor - Third bedroom	Halogen 50W MR16	8	6W GU10 WW Dimmable	8	4	GU10
First Floor - Third bedroom	E27 - 75W - Incandescent	2	9W LED GLS man dim WW E27	2	4	GLS
First Floor - Second bathroom	Halogen 50W MR16	4	6W GU10 WW Dimmable	4	4	GU10
First Floor - Second bathroom	E27 - 60W - Incandescent	1	9W LED GLS man dim WW E27	1	4	GLS
First Floor - Second bedroom	Halogen 50W MR16	6	6W GU10 WW Dimmable	6	4	GU10

Quote Acceptance

I,
in my Capacity as
hereby accept the quotation submitted to me by Ellies for 29 of energy efficient lighting to the amount of R0. I understand that a 10% deposit is payable before any work will commence and that the rest of the amount will be payable upon completion of the job and signing of the jobcard below once all equipment

Signed at: _____ on this _____ day of _____

_____ for the Customer

_____ for the Company: Ellies

Terms and conditions

- This Quote is valid for a period of thirty (30) days from date hereof. Should we receive your order AFTER thirty (30) days from date hereof, we may need to adjust your pricing based on the ruling rates of exchange.
- Our proposal is based on current exchange rates.
- The scope of works may change while our contractors are on site due to changes in your requirements. Any items exceeding the above quantities will be charged separately at the same rate as detailed above.
- The estimated savings are based on operating hours given by customer and electricity bill provided.
- Should the actual design differ from the information supplied then a revised variation quote will be submitted to you.
- Our labour rates are based on normal working hours. Should you require work to be done after hours, labour will be charged at ruling overtime rates and a new quote will be supplied.
- It is the sole responsibility of the business owner to ensure that all equipment and furniture is moved so as to allow unhindered access to all required areas to complete the installation. Ellies and its representatives are fully indemnified against all responsibility arising from any damage in this regard.
- Ellies warrants, subject to our normal condition of sale which are available on request, the equipment and services
- E. and O.E.
- The installation carries a warranty for a period of twelve (12) months from the date of installation
- Lighting products carry a 3 year warranty from the date of installation..
- Should payment not be made on due date, Ellies reserves the right to remove all equipment installed and claim such damages from the client.
- Interest at 2% per month will be levied on all overdue accounts.

Additional terms and conditions if the project is paid as a full maintenance rental contract

- Ellies will endeavour to investigate and replace where necessary any Ellies installed products indicated in this quote that may fail during the duration of the contract term, within 72 hours of the fault being reported subject to any circumstances beyond our control that may prevent service delivery within the stipulated time frame. Callout operating hours Monday to Friday 08:00 - 17:00 excluding public holidays
- Additional terms and conditions are stipulated in the rental contract which must be signed in addition to this quote acceptance document.
- Contracts are subject to a 20% Deposit to be paid upfront

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Job Card

Ship To:

Company: Powermet
Address: Morningside house
Contact: Justin Brivik
Cellphone: 0826937484

Date:

This project entails the supply and installation of 29 efficient lighting technologies to retrofit or replace 29 inefficient lighting sources found at the premises of Powermet. Work to be completed per specified location is described below.

Item Code	Description	Quantity	Unit Cost	Extended Cost
FLAUPAR38W	16W PAR38 Warm White E27	10	450.00	4500.00
FLIQA19B22WD	9W LED GLS man dim WW B22	12	153.00	1836.00
FLAUGU10WD	6W GU10 WW Dimmable	107	136.76	14633.32
FLCC5B22WD	5W Candle WW B22 Dimmable	14	202.50	2835.00
FLED80W	80W LED Floodlight	3	1872.00	5616.00
FLIQA19E27WD	9W LED GLS man dim WW E27	4	134.96	539.84
FLCC5E14W	5w LED Candle E14 WW	2	195.56	391.12
Labour		0	0	0
Travel		0	-	0.00
Crush		-	-	0.00
Materials		-	-	0.00

Code	Supplied	Used
FLAUPAR38W	N/A	N/A
FLIQA19B22WD	N/A	N/A
FLAUGU10WD	N/A	N/A
FLCC5B22WD	N/A	N/A
FLED80W	N/A	N/A
FLIQA19E27WD	N/A	N/A
FLCC5E14W	N/A	N/A

Total Value excluding VAT	30,351.28
VAT Calculated at 14%	4,249.18
Total Value Including VAT	34,600.46

Project signed off on:

For Customer Justin Brivik:

For Installer:

Stock used and returned to be indicated above.
At least 5 pictures to be taken on site.
Customer and Installer to sign completed Job Card.