



## Cash Financial Analysis

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

| Demand for Lighting per hour |        | Electricity Consumption per day |          | Monthly Cost |          |
|------------------------------|--------|---------------------------------|----------|--------------|----------|
| Before                       | After  | Before                          | After    | Before       | After    |
| 832 kW                       | 109 kW | 19968 kWh                       | 2616 kWh | R 998.82     | R 131.32 |
| Project Cost ex VAT          |        | Expected Monthly Saving         |          | % Saving     |          |
| R 37,725.68                  |        | R 867.50                        |          | 87%          |          |



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**



4ft LED Tube  
**20W**



Incandescent Lamp  
**60W**



A60 LED Lamp  
**7W**



Halogen Lamp  
**50W**



LED Lamp  
**6W**

|           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.036 kWh | 0.020 kWh | 0.060 kWh | 0.007 kWh | 0.050 kWh | 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 |

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JOHANNESBURG  
2001  
Tel: 011 493 0344  
Fax: 011 493 3027

VAT No: 4240171472  
Reg No: 2007/011513/07

PO Box 57076  
SPRINGFIELD  
2137

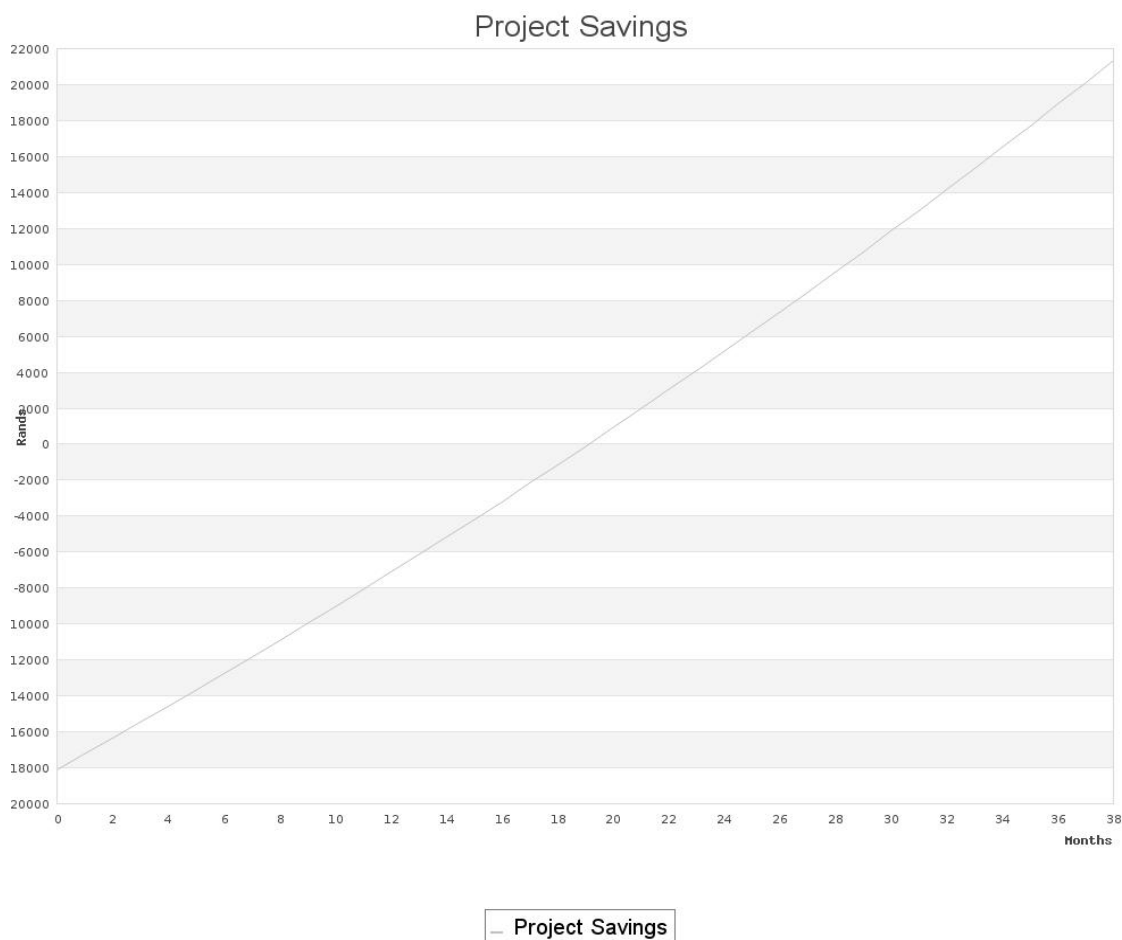
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## Replacement Items Overview

| Payback Period | Monthly Savings | Percentage Saved(%) | Savings after 5 years |
|----------------|-----------------|---------------------|-----------------------|
| 38.13 Months   | R867.50         | 87%                 | R 28,407.13           |

## Cost Overview - Cash Option

| Category             | Product Price | Installation | Total Price |
|----------------------|---------------|--------------|-------------|
| Replacement Products | R20,892.48    | R16,833.20   | R37,725.68  |
| Additional Products  | R0.00         | R0.00        | R0.00       |
| Total                | R20,892.48    | R16,833.20   | R37,725.68  |



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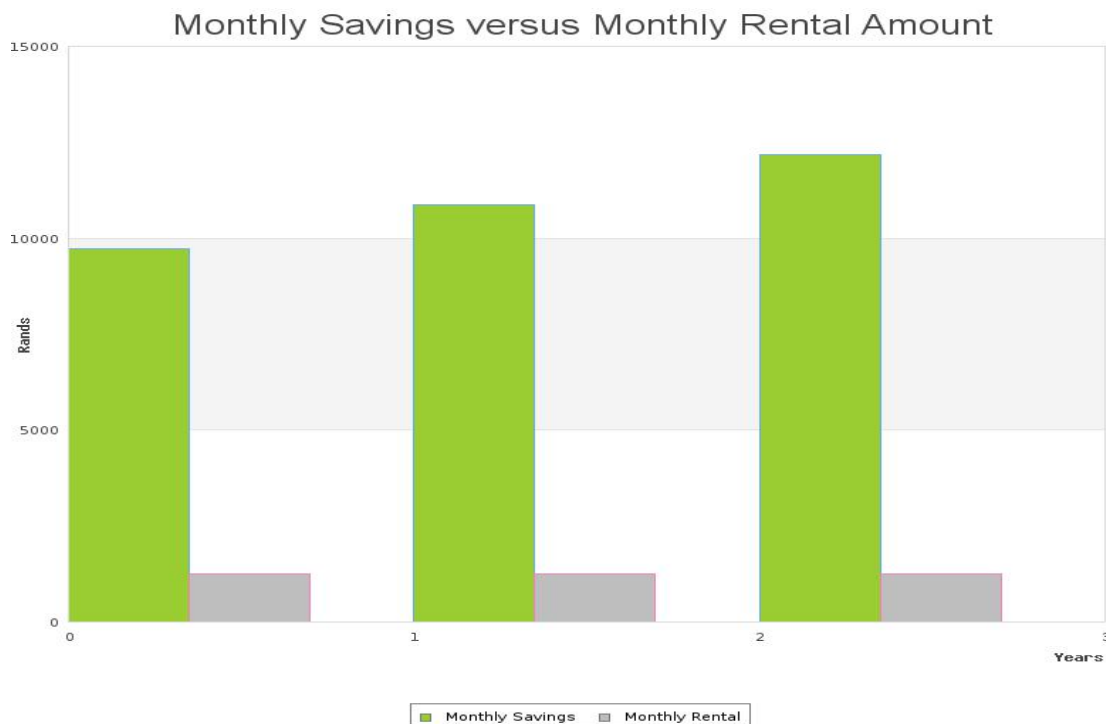
## Rental Financial Analysis

### Cost Overview - Rental Option

| Category             | Capital  | Maintenance | Total    |
|----------------------|----------|-------------|----------|
| Replacement Products | R1088.71 | R174.94     | R1263.65 |
| Additional Products  | R0.00    | R0.00       | R0.00    |
| Total                | R1088.71 | R174.94     | R1263.65 |

### Contract Overview

| Rental Term | Deposit         | Monthly Rental by year                      |
|-------------|-----------------|---|
| 36 Months   | R3,772.57 (10%) | 1: R1263.65<br>2: R1,263.65<br>3: R1,263.65 |



### Rent per Month

R1,263.65 is the Rental option subject to approval by a third party financier over a period of 36 Months

If the project were not completed, Powermet would continue paying as much as R 998.82 per month for lighting. But by completing the project, this amount can decrease to as little as R 131.32 each month. Even if you rent the equipment for R1263.65 over 36 months, you end up paying only R1,394.97 monthly which, after the 36 months, becomes money in your pockets.

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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 | Telephone      | 0826937484             |
|                  |             | E-mail         | justinb@powermet.co.za |
| Telephone        | 0826937484  | Date           | 2015-08-22             |

## Additional Information

|                      |       |                    |                               |
|----------------------|-------|--------------------|-------------------------------|
| Project Manager      | None  | Region             | Green Franchise 1             |
| Installer            | None  |                    |                               |
| Sales Rep            | None  |                    |                               |
| Electricity Supplier | Eskom | Type of Connection | Single Phase      Three Phase |
| Cost per kWh         | R 1.2 | Meter Number       | None                          |

## Consumption Data and Installation Details

|                      |             |                |             |
|----------------------|-------------|----------------|-------------|
| Electricity Accounts | Travel (km) | Ceiling Height | Contingency |
|                      | 0           | 0.00           | 0.00        |

Installation    **x**

Notes:

None

## Scope of Works

This project entails the supply and installation of 17 efficient lighting technologies to retrofit or replace 17 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 |
|--------------------------|---------------------------|----------|---------------------------|----------|----------------|-----------------|
| Ground - TV Room         | E27 - 150W - Incandescent | 4        | 16W PAR38 Warm White E27  | 4        | 4              | E27             |
| Ground - TV Room         | B22 - 100W - Incandescent | 1        | 9W LED GLS man dim WW B22 | 1        | 4              | GLS             |
| Ground - Passage         | Halogen 50W MR16          | 3        | 6W GU10 WW Dimmable       | 3        | 4              | GU10            |
| Ground - Patio           | E27 - 150W - Incandescent | 6        | 16W PAR38 Warm White E27  | 6        | 4              | E27             |
| Ground - Domestic Area   | B22 - 60W - Incandescent  | 5        | 9W LED GLS man dim WW B22 | 5        | 4              | GLS             |
| Ground - Kitchen         | Halogen 50W MR16          | 9        | 6W GU10 WW Dimmable       | 9        | 4              | GU10            |
| Ground - Kitchen         | B22 - 60W - Incandescent  | 1        | 9W LED GLS man dim WW B22 | 1        | 4              | GLS             |
| Ground - Entrance Lounge | Halogen 50W MR16          | 7        | 6W GU10 WW Dimmable       | 7        | 4              | GU10            |
| Ground - Entrance        | Halogen 50W MR16          | 9        | 6W GU10 WW Dimmable       | 9        | 4              | GU10            |
| Ground - Play Room       | Halogen 50W MR16          | 9        | 6W GU10 WW Dimmable       | 9        | 4              | GU10            |

## Quote Acceptance

I,  
in my Capacity as  
hereby accept the quotation submitted to me by Ellies for 17 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  
Contact: Justin Brivik  
Cellphone: 0826937484

### Date:

This project entails the supply of 17 efficient lighting technologies to retrofit or replace 17 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 | 9        | 153.00    | 1377.00       |
| FLAUGU10WD   | 6W GU10 WW Dimmable       | 48       | 136.76    | 6564.48       |
| FLCC5B22WD   | 5W Candle WW B22 Dimmable | 14       | 202.50    | 2835.00       |
| FLED80W      | 80W LED Floodlight        | 3        | 1872.00   | 5616.00       |
| Labour       |                           | 1        | 16408.2   | 16408.2       |
| Travel       |                           | 0        | -         | 0.00          |
| Crush        |                           | -        | -         | 425.00        |
| 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  |

|                           |           |
|---------------------------|-----------|
| Total Value excluding VAT | 37,725.68 |
| VAT Calculated at 14%     | 5,281.60  |
| Total Value Including VAT | 43,007.28 |

**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.