

Prepared by:
denzel@g7energies.com
denzel@g7energies.com

For: LIV
Ndwedwe Road, Ethekewini

Quote #: 1644084
Valid until: 2nd March 2023



Solar Energy System Proposal

Dear LIV,

Thank you for the opportunity to present your Solar Energy System Proposal.

Best Regards,
denzel@g7energies.com
G7 RENEWABLE ENERGIES

G7 RENEWABLE ENERGIES

None

None None None

Phone:

Email:

Web:

Scan QR code on your phone to
access the online proposal.



Recommended System Option

175.38_{kw}
System Size

R729,708
Estimated Annual
Electricity Bill Savings

R2,976,199
Total System Price

R2,976,199
Net System Price



Your Solution

Solar Panels

LONGi

175.380 kW Total Solar Power

316 x 555 Watt Panels (LR5-72HPH-555M)

298,696 kWh per year

Inverter

ATESS

150.000 kW Total Inverter Rating

1 x HPS150

Battery

BYD

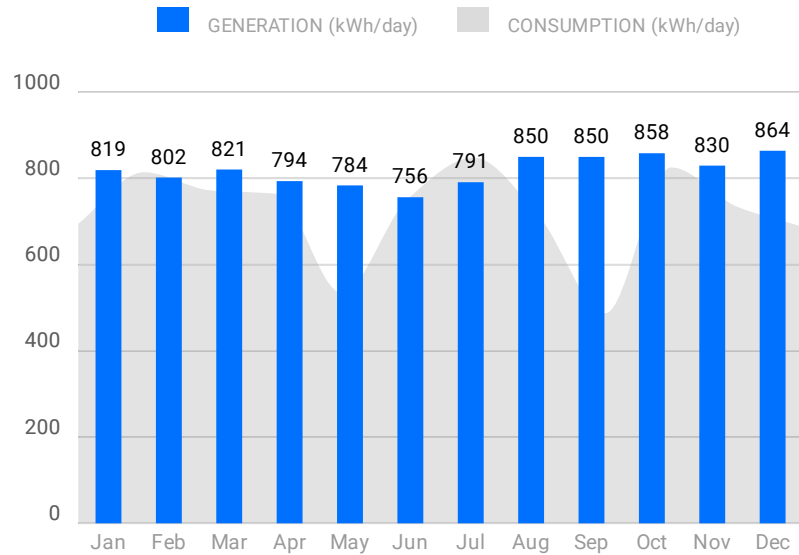
262 kWh Total Battery Storage

2 x C130

Warranties: 12 Year Panel Product Warranty, 25 Year Panel Performance Warranty, 5 Year Battery Product Warranty

System Performance

114%
Energy From Solar



System Performance Assumptions: System Total losses: 16.8%, Inverter losses: 4.0%, Optimizer losses: 0%, Shading losses: 0%, Performance Adjustment: 0%, Output Calculator: System Advisor Model 2020.02.29.r2. Panel Orientations: 47 panels with Azimuth 18 and Slope 27, 269 panels with Azimuth 18 and Slope 20.

The solar system(s) quoted in this proposal are not intended to be portable.

Environmental Benefits

Solar has no emissions. It just silently generates pure, clean energy.



Each Year

114%
Of CO₂, SO_x & NO_x

277 tons
Avoided CO₂ per year

Over System Lifetime

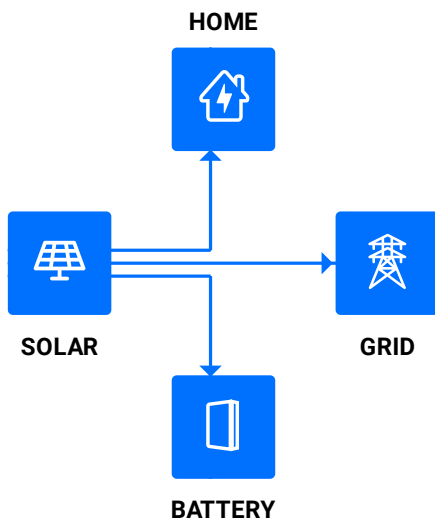
8,171,531
Car km avoided

52,534
Trees planted

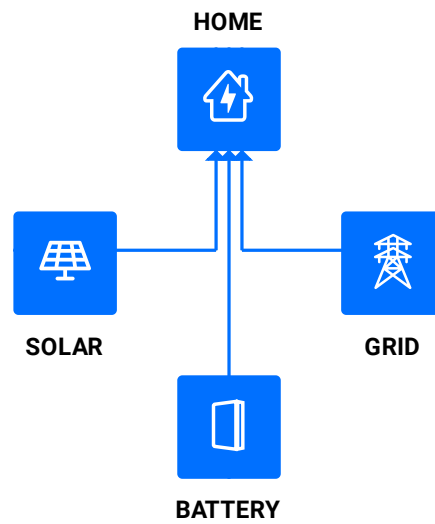
5,848
Long haul flights avoided

How your system works

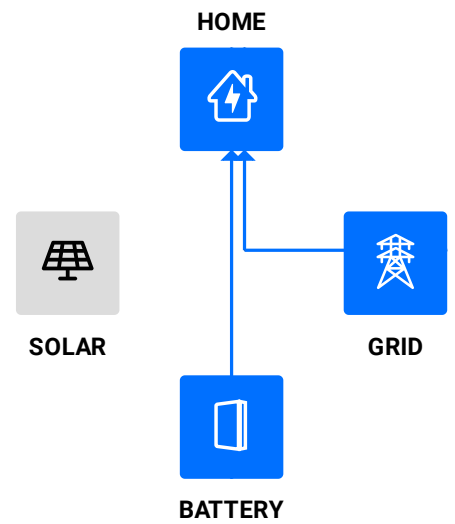
Generating Excess Solar



Partially Offset Usage

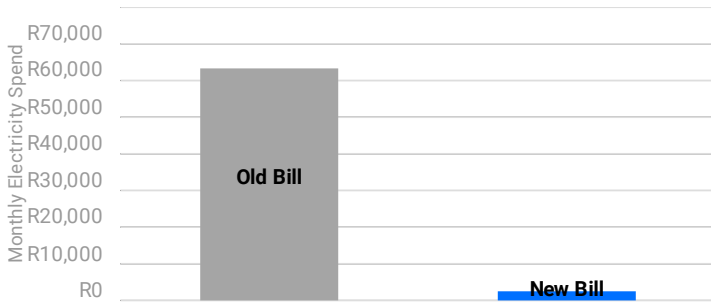


Night

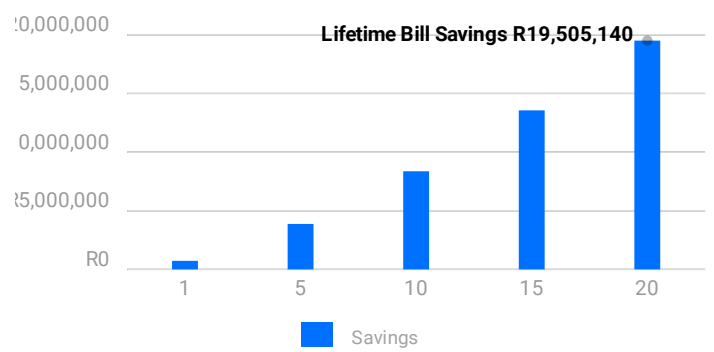


Electricity Bill Savings

First Year Monthly Bill Savings



Lifetime Bill Savings



| Month | Solar Generation (kWh) | Electricity Consumption before solar (kWh) | Electricity Consumption after solar (kWh) | Utility Bill before solar (R) | Utility Bill after solar (R) | Cumulative Energy Credit (R) | Estimated Savings (R) |
|-------|------------------------|--|---|-------------------------------|------------------------------|------------------------------|-----------------------|
| Jan | 25,392 | 21,540 | (2998) | 62,439 | 2,494 | 8,343 | 59946 |
| Feb | 22,451 | 22,800 | 1094 | 65,946 | 2,494 | 5,298 | 63452 |
| Mar | 25,436 | 23,938 | (668) | 69,113 | 2,494 | 7,157 | 66619 |
| Apr | 23,807 | 22,922 | (79) | 66,285 | 2,494 | 7,376 | 63792 |
| May | 24,293 | 16,560 | (6872) | 48,580 | 2,494 | 26,501 | 46086 |
| Jun | 22,686 | 22,560 | 637 | 65,278 | 2,494 | 24,728 | 62784 |
| Jul | 24,521 | 26,294 | 2582 | 75,670 | 2,494 | 17,544 | 73176 |
| Aug | 26,343 | 22,030 | (3478) | 63,803 | 2,494 | 27,222 | 61309 |
| Sep | 25,491 | 14,616 | (10025) | 43,170 | 2,494 | 55,120 | 40676 |
| Oct | 26,605 | 25,587 | (254) | 73,702 | 2,494 | 55,827 | 71209 |
| Nov | 24,886 | 22,033 | (2058) | 63,811 | 2,494 | 61,553 | 61318 |
| Dec | 26,784 | 21,322 | (4642) | 61,833 | 2,494 | 0 | 59339 |

Your projected energy cost is calculated by considering a 3.0% increase in energy cost each year, due to trends in the raising cost of energy. This estimate is based on your selected preferences, current energy costs and the position and orientation of your roof to calculate the efficiency of the system. Projections are based on estimated usage of 262202 kWh per year, assuming Custom Tariff Electricity Tariff.

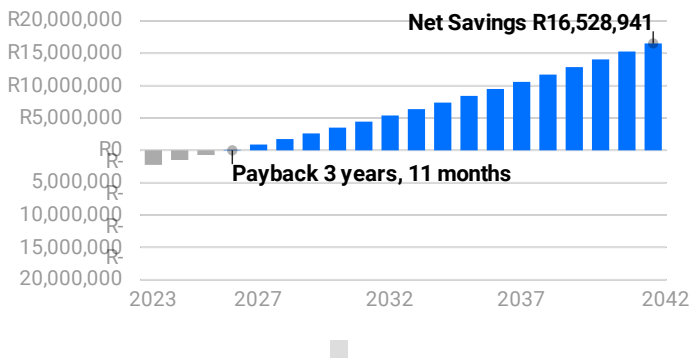
Your electricity tariff rates may change as a result of installing the system. You should contact your electricity retailer for further information.

| Proposed Tariff Details - Custom Tariff | |
|---|-------------------------|
| Energy Charges (R/kWh) | |
| Usage Charge | Tier 1 (> 0 kWh): R2.78 |
| Fixed Charges | |
| Fixed Charge | R2,493.56 / month |

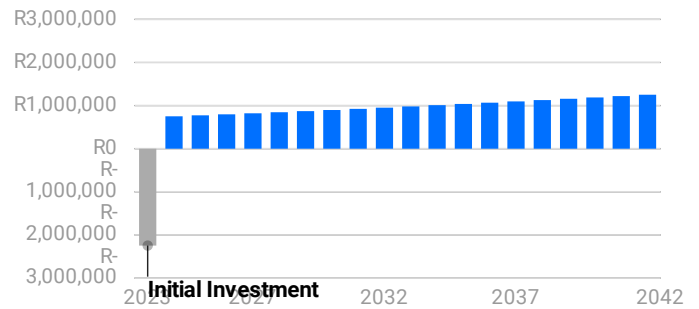
Net Financial Impact Cash

$$\begin{array}{rcccl}
 \text{R19,505,140} & - & \text{R2,976,199} & = & \text{R16,528,941} \\
 \text{Utility Bill Savings} & & \text{Net System Cost} & & \text{Estimated Net Savings}
 \end{array}$$

Cumulative Savings From Going Solar



Annual Savings From Going Solar



Estimates do not include replacement costs of equipment not covered by a warranty. Components may need replacement after their warranty period. Financial discount rate assumed: 6.75%

Quotation

Payment Option: Cash

| | |
|--|----------------------|
| 316 x LR5-72HPH-555M 555 Watt Panels (LONGi) 1 x HPS150 (ATESS) 2 x C130 (BYD) | |
| Total System Price | R2,976,198.60 |
| Purchase Price | R2,976,198.60 |

Price excludes Retailer Smart Meter should you want us to install your Smart Meter it will be an additional cost.
This proposal is valid until 2nd March 2023.

Quote Acceptance

I have read & accept the terms and conditions.

Signature _____

Name _____

Date _____



This proposal has been prepared by G7 RENEWABLE ENERGIES using tools from OpenSolar. Please visit www.opensolar.com/proposal-disclaimer for additional disclosures from OpenSolar.

Prepared by:
denzel@g7energies.com
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Quote #: 1708710
Valid until: 16th March 2023



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None

None None None

Phone:

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Recommended System Option

28.0 kW

System Size

R130,240

Estimated Annual
Electricity Bill Savings

R746,200

Total System Price

R746,200

Net System Price



Your Solution

Solar Panels

LONGi

28.000 kW Total Solar Power

50 x 560 Watt Panels (LR5-72HTH-560M)

48,620 kWh per year

Inverter

ATESS

30.000 kW Total Inverter Rating

1 x HPS30

Battery

BYD

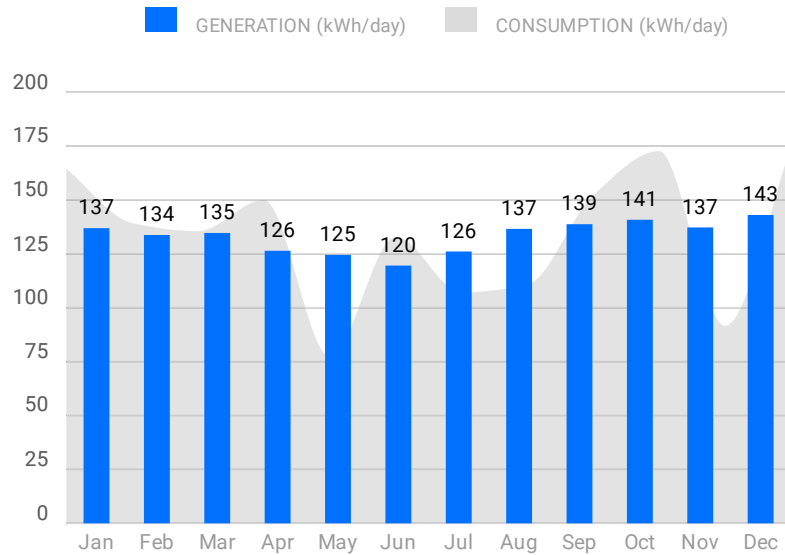
96 kWh Total Battery Storage

3 x HVL 32.0

Warranties: 15 Year Panel Product Warranty, 25 Year Panel Performance Warranty, 10 Year Battery Product Warranty

System Performance

99%
Energy From Solar



System Performance Assumptions: System Total losses: 15.8%, Inverter losses: 4.0%, Optimizer losses: 0%, Shading losses: 0%, Performance Adjustment: 0%, Output Calculator: System Advisor Model 2020.02.29.r2. Panel Orientations: 50 panels with Azimuth 320 and Slope 20.

The solar system(s) quoted in this proposal are not intended to be portable.

Environmental Benefits

Solar has no emissions. It just silently generates pure, clean energy.



Each Year

99%
Of CO₂, SO_x & NO_x

45 tons
Avoided CO₂ per year

Over System Lifetime

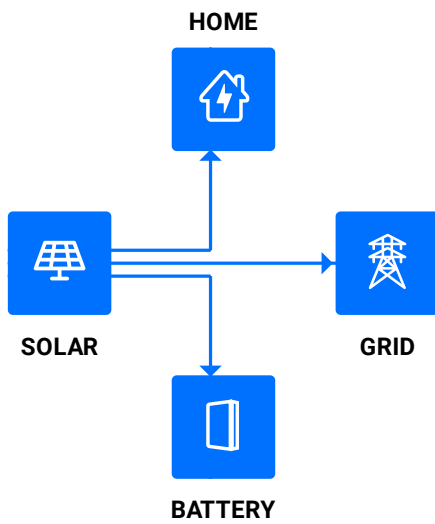
1,348,971
Car km avoided

8,672
Trees planted

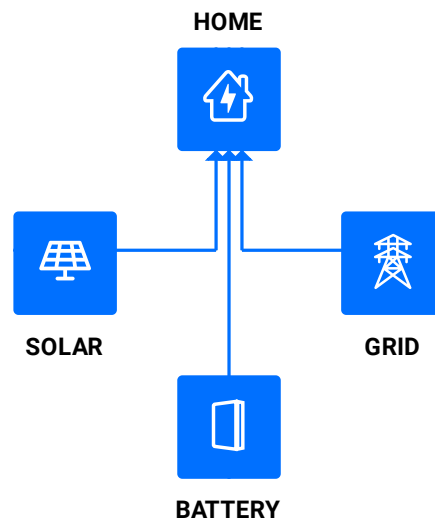
965
Long haul flights avoided

How your system works

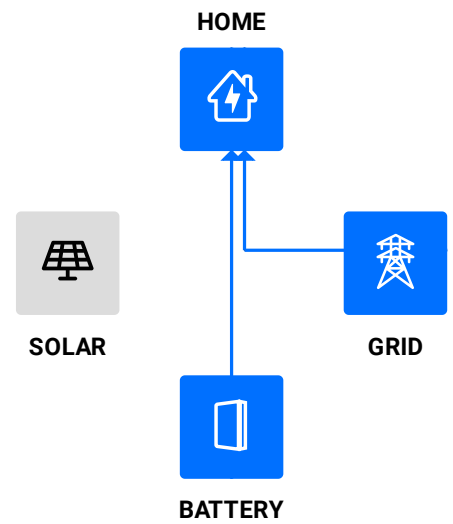
Generating Excess Solar



Partially Offset Usage

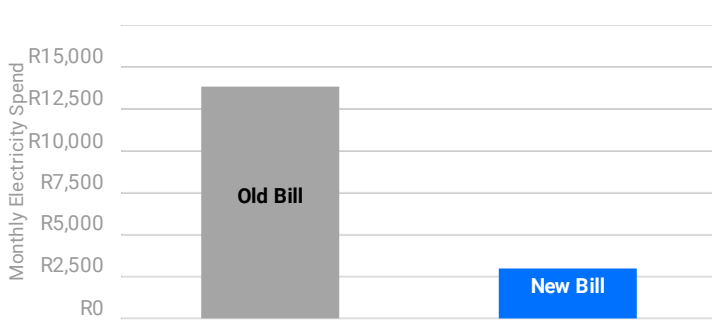


Night

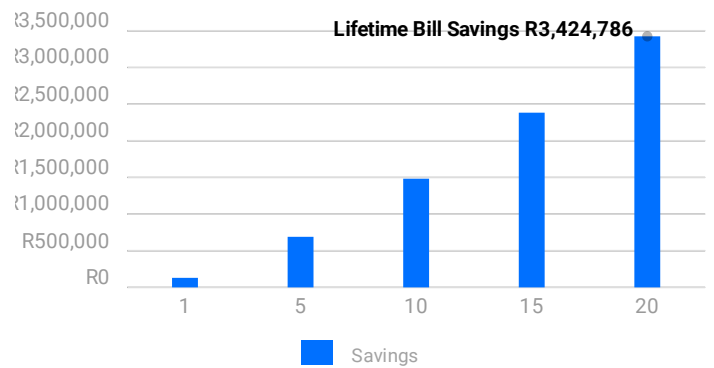


Electricity Bill Savings

First Year Monthly Bill Savings



Lifetime Bill Savings



| Month | Solar Generation (kWh) | Electricity Consumption before solar (kWh) | Electricity Consumption after solar (kWh) | Utility Bill before solar (R) | Utility Bill after solar (R) | Cumulative Energy Credit (R) | Estimated Savings (R) |
|-------|------------------------|--|---|-------------------------------|------------------------------|------------------------------|-----------------------|
| Jan | 4,244 | 5,100 | 937 | 16,687 | 5,101 | 0 | 11586 |
| Feb | 3,744 | 3,900 | 262 | 13,347 | 3,223 | 0 | 10124 |
| Mar | 4,175 | 4,200 | 108 | 14,182 | 2,794 | 0 | 11388 |
| Apr | 3,792 | 4,500 | 794 | 15,017 | 4,704 | 0 | 10313 |
| May | 3,860 | 2,400 | (1363) | 9,173 | 2,494 | 3,795 | 6679 |
| Jun | 3,586 | 3,984 | 429 | 13,581 | 2,494 | 2,602 | 11087 |
| Jul | 3,908 | 3,320 | (461) | 11,733 | 2,494 | 3,884 | 9240 |
| Aug | 4,233 | 3,431 | (725) | 12,042 | 2,494 | 5,901 | 9548 |
| Sep | 4,162 | 4,565 | 455 | 15,198 | 2,494 | 4,635 | 12704 |
| Oct | 4,365 | 5,352 | 1075 | 17,388 | 2,494 | 1,644 | 14895 |
| Nov | 4,117 | 2,748 | (1249) | 10,141 | 2,494 | 5,120 | 7648 |
| Dec | 4,434 | 5,400 | 1023 | 17,522 | 2,494 | 0 | 15028 |

Your projected energy cost is calculated by considering a 3.0% increase in energy cost each year, due to trends in the raising cost of energy. This estimate is based on your selected preferences, current energy costs and the position and orientation of your roof to calculate the efficiency of the system. Projections are based on estimated usage of 48900 kWh per year, assuming Custom Tariff Electricity Tariff.

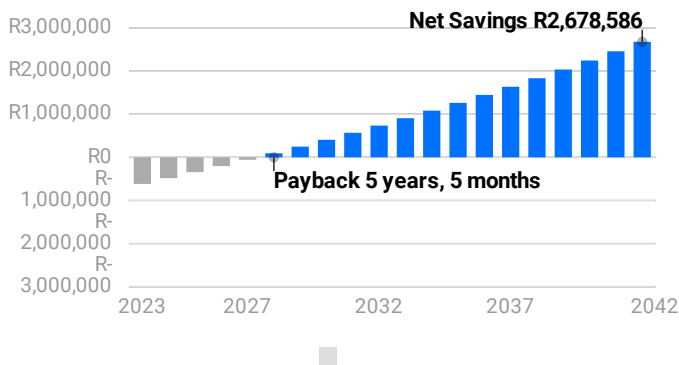
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| Usage Charge | Tier 1 (> 0 kWh): R2.78 |
| Fixed Charges | |
| Fixed Charge | R2,493.56 / month |

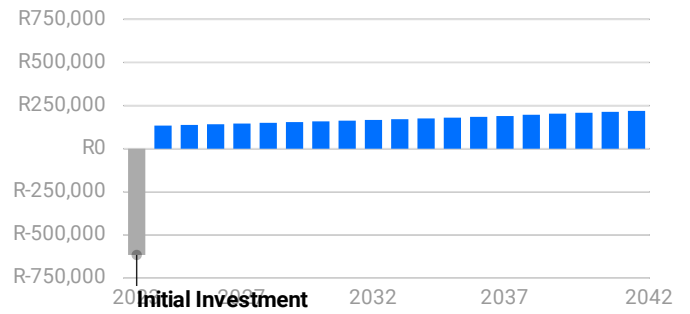
Net Financial Impact Cash

$$\begin{array}{rcl}
 \text{R3,424,786} & - & \text{R746,200} & = & \text{R2,678,586} \\
 \text{Utility Bill Savings} & & \text{Net System Cost} & & \text{Estimated Net Savings}
 \end{array}$$

Cumulative Savings From Going Solar



Annual Savings From Going Solar



Estimates do not include replacement costs of equipment not covered by a warranty. Components may need replacement after their warranty period. Financial discount rate assumed: 6.75%

Quotation

Payment Option: Cash

| | |
|--|--------------------|
| 50 x LR5-72HTH-560M 560 Watt Panels (LONGi) 1 x HPS30 (ATESS) 3 x HVL 32.0 (BYD) | |
| Total System Price | R746,200.00 |
| Purchase Price | R746,200.00 |

Price excludes Retailer Smart Meter should you want us to install your Smart Meter it will be an additional cost.
This proposal is valid until 16th March 2023.

Quote Acceptance

I have read & accept the terms and conditions.

Signature _____

Name _____

Date _____



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