



# CASE STUDY

FARMING

Solar Solutions  
**Simplified & Guaranteed**

## The Solution

image: Freepik.com

| SolarEdge Grid-Tied Inverter System: 172.3kWp - No Throttling of Solar Produced |                    |
|---|--------------------|
| Size of Solar PV Solution - Consumption is Seasonal (System Sizing Critical)    | 172.3kWp           |
| Turnkey Project Cost - Site Specific and Roof or Ground Mount Dependent         | R2 010 024,69      |
| Rand per Watt - Ground Mount System   | R11,67             |
| Payback Period  | 3 years 9 months   |
| Year 1 Depreciation - 100% - Effective 28% Tax Benefit                          | R562 806,91        |
| Month 1 Saving  | R30 945,67         |
| Current Blended Utility Tariff - Typically Eskom Ruraflex                       | R1,27              |
| Solar PV Levelised Cost of Electricity  | R0,59              |
| Year 25 Blended Utility Tariff - 8% Increase per Annum                          | R8,05              |
| Year 25 Solar PV Levelised Cost of Electricity                                  | R0,59              |
| ROI in Year 1   | 26% and increasing |
| Cumulative Saving over 25 Years   | R21 511 514,48     |
| IRR   | 41%                |
| NPV at a 10% Discount Rate  | R4 620 791,19      |
| NPV as ROI %  | 230%               |
| Extended Warranty to 20 Years for Inverters                                     |                    |
| R48 000,00  |                    |

Larger sized panels and different inverter technologies are available should they be determined to be more optimal or cost effective after a detailed site analysis.