



CASE STUDY  
DAIRY

Solar Solutions  
**Simplified & Guaranteed**

The Solution



image: Freepik.com

SolarEdge Grid-Tied Inverter System: 207.3kWp - No Throttling of Solar Produced	
Size of Solar PV Solution - Consumption is Seasonal (System Sizing Critical)	207.3kWp
Turnkey Project Cost - Site Specific and Roof or Ground Mount Dependent	R2 140 703,70
Rand per Watt - Rooftop System	R10,33
Payback Period	3 years 9 months
Year 1 Depreciation - 100% - Effective 28% Tax Benefit	R599 397,04
Month 1 Saving	R32 861,25
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	R22 832 323,46
IRR	41%
NPV at a 10% Discount Rate	R4 901 143,51
NPV as ROI %	229%
Extended Warranty to 20 Years for Inverters	
R51 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.