MVELO-TLHAHO
RENEWABLE ENERGY SOLUTIONS

CORPORATE PROFILE

Corporate Profile & Technical Solutions Overview

Engineering-led solar PV, battery storage, and structured financing across South Africa.

84-MONTH
Fixed-installment financing

TIER-ONE
PERC / N-Type TOPCon modules

24/7
Telemetry monitoring

Issue 1.0 | 2026 | Gauteng, South Africa
Prepared for prospective residential, commercial and agricultural clients
mvelosolar.co.za

01 / EXECUTIVE SUMMARY

Who We Are

Mvelo-Tlhaho Renewable Energy Solutions delivers premium photovoltaic and energy storage installations for residential and commercial property owners across South Africa. We combine rigorous engineering discipline with a customer-centric funding model, giving clients immediate energy independence alongside long-term financial predictability.

Our work sits at the intersection of engineering and finance. Every installation begins with measured load data and a simulated production model, and ends with a commissioned, monitored system that the client owns outright at the end of term. We do not sell power back to our clients under restrictive utility-style agreements; we build assets that become theirs.

Operating from Gauteng, we serve households, businesses and agricultural operations that need reliable supply in an environment of rising municipal tariffs and an unstable national grid.

What defines our practice

- Streamlined deployment that removes legal and operational complexity for the client.
- Mitigated grid vulnerability against rising municipal tariffs and load-shedding.
- Rigorous engineering using premium tier-one hardware only, with no substitutions.
- Full regulatory compliance: SSEG registration and ECSA professional sign-off.

Residential

Load-shedding immunity and long-term utility reduction

Commercial

Daytime self-consumption offset and tariff protection

Agricultural

Robust systems for heavy inductive and irrigation loads

02 / PURPOSE

Vision, Mission & Strategic Value

VISION

A self-reliant energy future for South Africa

A country where every household, business and farm generates and stores a meaningful share of its own electricity, insulated from tariff escalation and supply interruption.

MISSION

Engineering-led delivery, financed responsibly

To design, finance, install and monitor solar and storage systems to a professional standard, with transparent commercial terms and a clear pathway to complete client ownership.

Strategic value

Energy Sovereignty

Clients control their own generation and storage rather than depending entirely on a constrained national grid.

Engineering Rigour

Measured load profiling, simulated design, SANS-compliant mounting and ECSA professional sign-off on every project.

Commercial Transparency

Fixed installments, no hidden escalation, no restrictive power purchase agreements, and full asset ownership at term end.

Compliance framework: municipal SSEG registration and ECSA-registered professional sign-off on all installations.

03 / MARKETS SERVED

Core Sectors

We structure each system around the load behaviour of the sector it serves. The hardware specification, storage sizing and financing term all follow from that profile.

Residential Households

Total protection from load-shedding, with energy security and a long-term reduction in utility expenditure for the family home.

- Hybrid inverter and battery configuration for uninterrupted supply
- Sizing aligned to measured household consumption, not guesswork
- Protection against municipal tariff escalation year on year

Commercial & Light Industrial

Optimised rooftop and carport arrays that offset daytime self-consumption and shield operations from commercial tariff structures.

- Peak shaving against expensive daytime and demand charges
- Rooftop, carport and ground-mount options per site constraints
- Direct reduction in operational running costs from month one

Agricultural

Robust ground and roof installations engineered for heavy inductive loads, irrigation demand and rural supply instability.

- Systems rated for irrigation pumps and high-draw motor starts
- Packhouse, cold chain and processing supply continuity
- Stability where rural grid infrastructure is weak or intermittent

04 / COMMERCIAL MODEL

Financed Solutions & Ownership

Our financing structure is built to remove the upfront capital barrier that stops most viable solar projects. Clients move onto a fixed monthly installment aligned with their historical grid-electricity expenditure, so the change in monthly cash flow is modest while the benefit is immediate.

84 **months, fixed installment**

A seven-year term structured against your historical electricity spend, ending in full, unencumbered ownership of the installed asset.

No restrictive utility-style PPAs | No balloon payment | 100% client asset at term end

What it removes

- Upfront capital friction on a large infrastructure purchase
- Lengthy negotiation over power purchase terms
- Uncertainty about who owns the asset at the end

What it delivers

- Immediate operational savings from the first billing cycle
- Predictable, fixed monthly cost over the full term
- A clear pathway to complete asset ownership

Contrast with a utility-style PPA

Under a conventional power purchase agreement the provider retains the asset and sells you electricity for the life of the contract, often with built-in annual escalation. Our model inverts that: you finance a defined asset over a defined term, and at the end of it the generation capacity on your roof is yours, with no further payment obligation.

05 / DELIVERY

End-to-End Project Methodology

01 **Load Profiling & Site Audit**
Measured consumption data and a physical site assessment establish the true demand baseline.

02 **PV Simulation & Design**
Production modelling in HelioScope or OpenSolar, with shading, orientation and yield analysis.

03 **Commercial Proposal & Financial Structuring**
A costed proposal with the financing term structured against historical electricity spend.

04 **Regulatory & Municipal Compliance**
SSEG approvals lodged with the municipality and ECSA professional sign-off obtained.

05 **Precision Procurement & Installation**
Tier-one hardware procured and installed under full OHS compliance by qualified teams.

06 **Commissioning, Telemetry & Handover**
System commissioning, 24/7 monitoring enabled, and documented handover to the client.

06 / QUALITY

Technical Standards & Guarantees

- **Tier-one modules**
  Monocrystalline PERC and N-Type TOPCon only
- **Inverter architecture**
  Commercial-grade units exceeding 98% efficiency
- **Mounting systems**
  SANS 10160 compliant structural mounting
- **Battery storage**
  LiFePO4 BESS selected for cycle life and safety
- **Monitoring**
  24/7 telemetry with remote fault detection
- **Warranties**
  Comprehensive workmanship and product cover

07 / CONTACT

Get in Touch

We welcome enquiries from homeowners, business owners and agricultural operators who want a properly engineered, properly financed energy solution.

REQUEST A CONSULTATION

Mvelo-Tlhaho Renewable Energy Solutions

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Email and service areas to be confirmed

Operational footprint

Johannesburg | Pretoria | East Rand | West Rand | North West | Mpumalanga | Limpopo

Service areas listed are indicative and should be confirmed against current operational coverage.

Sign-off

Prepared by	Accepted by
Name	Name
Signature	Signature
Date	Date

Energy independence, engineered and owned.

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