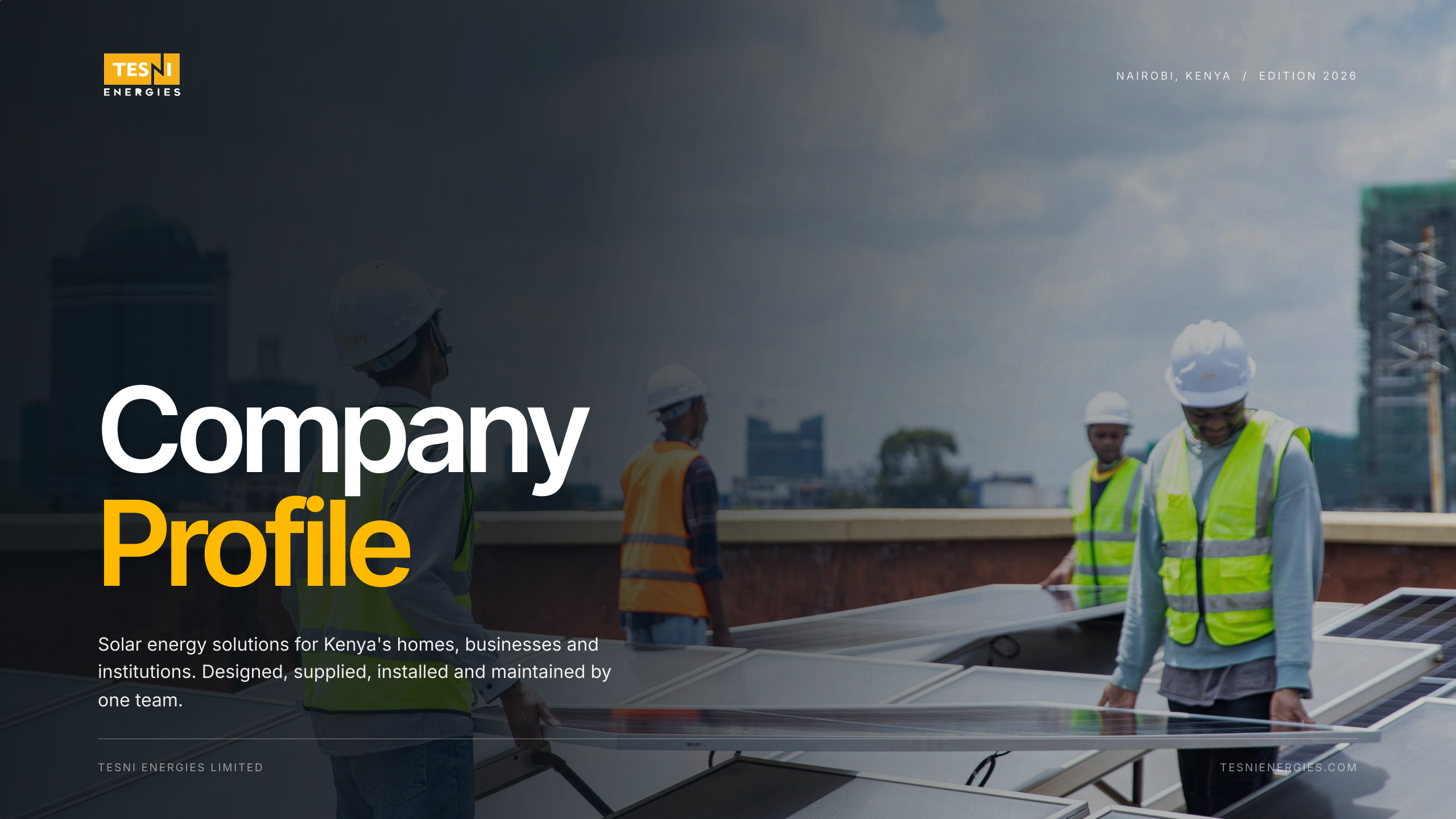
TESNI ENERGIES

NAIROBI, KENYA / EDITION 2026



Company Profile

Solar energy solutions for Kenya's homes, businesses and institutions. Designed, supplied, installed and maintained by one team.

We build solar systems that pay for themselves and keep working long after they have.

Tesni Energies is a Nairobi-based solar engineering, procurement and construction company. We have delivered systems from single-home rooftops to multi-hundred-kilowatt institutional arrays since 2018.

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A Kenyan Solar Engineering Company

We specialise in designing, supplying, installing and maintaining solar energy systems for residential, commercial and industrial use. We also provide power audits and technical advice on installation quality, cost control and maintenance.

Our engineers design every system for Kenyan conditions: high irradiance, dust, heat and an unpredictable grid. We source only Tier-1 equipment, install to standard and stay with every client through monitoring and maintenance. The result is power you can rely on and a payback period you can plan around.

Our goal is to achieve green energy maximisation with ultimate goal being sustainability in energy production, lowering energy bills for our clients and making a positive contribution to climate change by lowering carbon dioxide levels through fossil fuel reduction.

2018
YEAR FOUNDED

500+
SYSTEMS INSTALLED

2,500+
KWP DELIVERED

47
COUNTIES COVERED

ON SITE IN NAIROBI

Vision and Mission

OUR VISION

To become the regional premier energy solutions company of choice.

OUR MISSION

To provide energy solutions by solarising electric power to energise lives.

OUR OBJECTIVES

01 Provide off-grid electric solutions wherever the grid cannot reach or cannot be relied on.

02 Power the region affordably, with systems sized to real consumption rather than to a sales target.

03 Cut our clients' power bills through critical energy solutions and disciplined resource mobilisation.

Our Services

Six things we are asked for most often. Every one of them is delivered by our own engineers and installers, not subcontracted out.

01	**Residential solar installation**	Rooftop systems for family homes, designed around your actual consumption and sized to carry the house through an outage.
02	**Commercial and industrial solar**	Arrays for offices, factories, hotels, schools, hospitals and farms, engineered for daytime self-consumption and a return you can model.
03	**Energy storage and backup**	Lithium storage and hybrid inverters that keep critical loads running through grid failures and shift demand away from peak tariffs.
04	**Maintenance and repair**	Cleaning, inspection, inverter diagnostics and performance reporting under a scheduled programme, with a named contact.
05	**Energy audits and efficiency consultation**	Consumption analysis, load profiling and system sizing, so every kilowatt you buy is a kilowatt you actually need.
06	**Supply of solar equipment**	Panels, inverters, batteries, pumps, heaters and lighting, supplied with datasheets and certificates of conformity.

Five Reasons Clients Come Back

01

Expertise and experience

Certified engineers and installers who have completed a wide range of installations, from single homes to large commercial arrays. The team that designs your system is the team that builds it.

02

Quality and innovation

Tier-1 panels, certified inverters and current installation methods, so the system runs efficiently and reliably for decades.

03

Customised solutions

Every system is designed around your site, your load profile and your budget, never pulled off a standard template.

04

Environmental responsibility

Solar cuts your bill and your carbon footprint while moving Kenya further towards clean renewable energy.

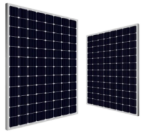
05

Aftercare that lasts

Monitoring, scheduled servicing and a direct line to the people who built your system, long after handover.

Generation and Storage

Everything below is supplied with manufacturer documentation and covered by both a manufacturer warranty and our own workmanship warranty.



Solar panels

Tier-1 mono and poly modules from 250W to 470W. High power density, advanced glass and a 25 year power warranty.

Charge controllers

Three-stage PWM and MPPT charging, LCD display, multiple load control modes and overcharge protection.

Inverter chargers

1000W to 6000W pure sine wave units with a transfer switch, for off-grid and hybrid solar systems.

Lithium batteries

Deep-cycle lithium iron phosphate storage for solar and wind, with 100Ah and 200Ah sealed gel options too.

Battery racks

Economical racking for 2V, 6V and 12V banks, adjustable to take a wide range of top-terminal batteries.

Solar water heaters

An absorbing plate, high transmittance glass and polyester film insulation. 150L, 200L and 300L.

Lighting and Water

Solar water pumps

High quality DC submersible pumps for drinking water, livestock watering, pond management and irrigation. They provide large volumes of water economically and without pollution.

Solar LED street lights

30W to 200W, complete with panel and long-life lithium batteries. No expensive wiring, no maintenance, 12 to 16 running hours and a two year warranty.

Rechargeable floodlights

Waterproof 20W, 30W and 50W floodlights with a time switch, motion sensor and remote control. Three charging modes: mains, solar and vehicle.

Solar LED wall lights

2W to 12W wall lights with an auto on and off function, zero running and maintenance cost, zero electricity bills and a wall-mount bracket included.

From Enquiry to Handover

One contractor, one named project manager and a documented trail from the first site visit to the maintenance schedule.

01

Site survey

We visit, measure the roof or ground area, check the switchgear and read your consumption history.

02

Design and proposal

Sizing, yield simulation, single-line diagram and a written quotation with a full bill of quantities.

03

Supply and install

Tier-1 equipment delivered to site and installed by our own certified crew under a method statement.

04

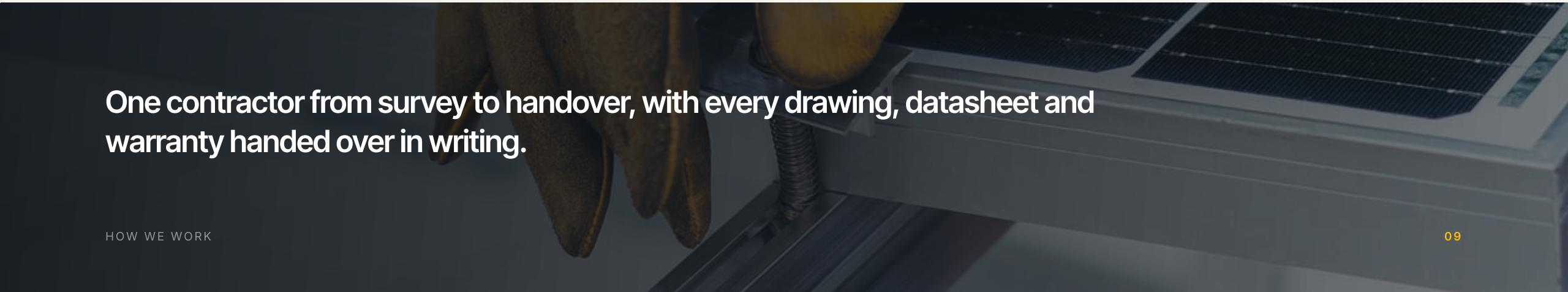
Test and commission

Full electrical testing, labelling and handover with as-built drawings, datasheets and warranties.

05

Monitor and maintain

Performance monitoring, scheduled servicing and a direct line for support throughout the system's life.



One contractor from survey to handover, with every drawing, datasheet and warranty handed over in writing.

Work We Have Delivered

600 kWp	Central Bank, Kenya School of Monetary Studies *Engineer involved*
600 kW	A university in Nairobi *Engineer involved*
300 kW	Private residence, Rolesho Ridge
50 kW	ICIPE, Ngurumah
40 kW	VIPINGO Ridge
20 kW	ICIPE, Muhaka

Where Our Systems Run

We work with procurement departments, facilities managers, county governments, development partners and private clients across all 47 counties.

Manufacturing

Factories and processing plants with heavy daytime loads.

Hospitality

Hotels, lodges and camps, on-grid and fully off-grid.

Education

Schools, colleges and universities, including boarding sites.

Healthcare

Hospitals and clinics where an outage is not an option.

Agriculture

Irrigation, cold chain, greenhouses and farm infrastructure.

Commercial property

Offices, malls and mixed-use developments.

NGOs and donors

Development partners and field programmes across Kenya.

Government

County and national facilities, delivered through tender.

Pre-qualification. Company registration, KRA tax compliance, NCA contractor registration and EPRA solar PV and electrical contractor licences are current and issued on request for tenders and pre-qualification.

Let's Talk Solar Energy

Send us a recent electricity bill and a description of your site. We will come back with a sizing and a quotation.

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