Are citizens and businesses incentivised to use and invest in or install any form of sustainable, green energy in South Africa?

In 2026, South African citizens and businesses continue to have access to several fiscal incentives designed to encourage the adoption of green energy, though some major temporary tax breaks from previous years have transitioned to standard rates or new specialized sectors.

For Businesses

Standard Section 12B Tax Allowance: Businesses can claim a tax deduction for the cost of renewable energy machinery.

Solar PV (under 1MW): A 100% upfront deduction in the year the system is brought into use.

Larger Systems & Other Renewables: For solar PV exceeding 1MW, wind power, and biomass, a three-year accelerated depreciation is allowed (50% in year one, 30% in year two, and 20% in year three).

Electric Vehicle (EV) Manufacturing Incentive: Starting March 1, 2026, manufacturers investing in new assets for the production of electric and hydrogen-powered vehicles can claim a 150% tax deduction.

VAT Refunds: Businesses registered as VAT vendors can often claim back the 15% VAT paid on solar installations if the energy is used for taxable business supplies.

Energy Bounce-Back (EBB) Loan Scheme: This government-backed scheme provides easier access to financing for small businesses and households to invest in rooftop solar and storage.

For Citizens

EBB Loan Guarantee: Individual households can use the Energy Bounce-Back scheme to secure loans for installing solar and backup systems at more favourable rates through participating banks.

Grid Feeding (Net Billing): Many municipalities now allow residents to sell excess solar power back to the grid, providing a monthly credit on their electricity bills.

Expired Solar Rebate: Note that the specific Section 6C solar tax rebate (25% up to R15,000) was a temporary measure that only applied to panels brought into use between March 2023 and February 2024.

Environmental "Disincentives"

Carbon Tax Phase Two: As of January 2026, the carbon tax rate is projected to increase significantly (to approximately R462 per tonne of CO2 equivalent). This acts as a powerful financial nudge for large emitters to invest in green energy to avoid rising penalties.

Updates to renewable energy tax allowances - Forvis Mazars

26 Mar 2025 — Section 12ba – the 125% allowance that once was. Section 12BA of the Income Tax Act ("the Act") was introduced for qual...

Forvis Mazars

Renewable Energy Incentives for Businesses | TaxTim Blog SA

14 May 2025 — Below are the key points: * Availability and Duration. The incentive is available from 1 March 2023 to 28 February 2025...

TaxTim

How to Claim Solar Tax Rebate in South Africa? - EcoFlow

09 Jun 2025 — * With the rising demand for renewable energy, South Africa has introduced attractive solar power incentives to encoura...

EcoFlow

In 2026, the primary ways to monetise and finance your solar investment are through the Energy Bounce-Back (EBB) loan scheme and municipal Small-Scale Embedded Generation (SSEG) feed-in tariffs.

1. How to Apply for the Energy Bounce-Back (EBB) Loan

The EBB scheme is a government-backed guarantee that allows you to access solar financing with favourable terms (interest rates are typically capped at prime + 2.5% or less).

Participating Banks: Contact the green energy desk at Standard Bank (LookSee), FNB (nav»Energy), ABSA, or Nedbank.

What You Need:

A detailed quote or invoice (not older than 30 days) from an accredited solar installer.

Proof of residence (under 3 months old) and 3 months of bank statements if applying at a bank other than your primary one.

South African ID and proof of property ownership (or owner's permission).

Loan Limits: Individuals can borrow between R3,000 and R300,000, with repayment terms ranging from 12 to 72 months.

2. Municipal Feed-In Tariffs (Selling Back Power)

Most major metros now offer a net billing system where excess power generated during the day is credited against your municipal bill.

Cape Town: Historically the most advanced, paying residents roughly 87c to 92c per kWh plus a special 25c "incentive" bonus (totalling ~R1.12 to R1.17/kWh). Credits are applied to your bill; if your credit exceeds R1,000, you can apply for a cash payout annually.

Johannesburg (City Power): Offers a feed-in rate (historically around 88c/kWh). Note that you must be on a post-paid (conventional) meter or a specialized bidirectional smart meter to qualify; standard prepaid meters will often "trip" or charge you for the power you export.

eThekwini (Durban): Provides a competitive export rate, historically approximately 136c/kWh.

Requirements: You must use a municipality-approved inverter and have a certified professional sign off on the installation for safety.

3. Steps to Get Started

Check Inverter Compatibility: Ensure your installer uses equipment from your city's Approved Inverter List (essential for grid-feeding).

Apply for SSEG: Submit a Small-Scale Embedded Generation application to your local municipality before installation to avoid fines for "illegal" grid connection.

Install a Smart Meter: The municipality will likely replace your current meter with a bidirectional (AMI) meter to track power moving both ways.

Approved inverter list :

Apply for an Energy Loan | Standard Bank

You can apply for an Energy Loan online by visiting LookSee. What you'll need: * A quote or invoice no older than 30 days. You can...

Standard Bank

Beat rising electricity costs with Absa Solar and Energy Finance

Power up in seconds * what you get. Save on electricity costs. Reduce your electricity bill. Save the environment: reduce air poll...

Absa

Energy Bounce Back Loan Guarantee Scheme

07 Aug 2023 — This mechanism will increase the supply of rooftop solar solutions allowing businesses to source rooftop solar equipmen...

The Banking Association South Africa

To install a solar system that qualifies for financial credits and legal grid connection in 2026, you must use approved equipment and accredited professionals.

1. Official Approved Inverter Lists

Municipalities only allow specific inverter models to be connected to the grid. If your inverter is not on these lists, you cannot legally sell power back or claim certain municipal rebates.

National/General: Most municipalities follow the NRS 097-2-1 standard.

City of Johannesburg: You can access the 2025/2026 approved equipment list via the City Power portal.

City of Cape Town: The most frequently updated list is available through the Official CCT SSEG Portal. Common approved brands include Sunsynk, Victron, Deye, and Huawei (specific models only).

2. Accredited Solar Installers (Randburg & National)

For your installation to be valid for insurance and municipal sign-off, you should use a PV GreenCard certified installer.

Top-Rated Accredited Installers in/near Randburg:

Image of The Green Way Solar South Africa

The Green Way Solar South Africa

5.0

(81)

Solar Energy Company

ClosedUnit 16, Graphite Industrial Park, 1 Fabriek St

Based in Strydompark, specializing in residential and industrial hybrids.

Image of NeoTech Solar

NeoTech Solar

5.0

(99)

Solar energy company

ClosedSuite A, Floor, Lifestyle Business Centre, 1 Beyers Naudé Dr

Located in Randpark Ridge; all installation teams are PV GreenCard Certified.

Image of SunEnergySA

SunEnergySA

5.0

12)

Solar energy company

Closed91 5th Avenue North

Fontainebleau-based specialists in renewable energy and backup systems.

Photovoltaic South Africa

4.9

(14)

Solar energy company

Closed16 Fir Dr

Located in Northcliff, offering custom blueprints and regulatory paperwork filing.

3. How to Verify an Installer

SAPVIA PV GreenCard: Use the Official PV GreenCard Directory to search for installers by province and city to ensure they are currently registered for 2026.

ECB Registration: Ensure the lead electrician is registered with the Electrical Conformance Board of South Africa (ECB) to issue a valid Certificate of Compliance (CoC).

Pro Tip for 2026: Ask your installer if they include the SSEG Registration as part of their service package. In Johannesburg and Cape Town, this administrative step can take several weeks and is often easier if handled by the professional.

Step-by-step checklist of the documents your installer must provide to ensure your system is fully insurance-compliant:

Approved Photovoltaic (PV) Inverter List, Approved Photovoltaic (PV) Inverter List, 800492, GP0|#af8a3963-d9e4-485f-ac84-7f8e7d3ef...

City of Cape Town

Approved City of Cape Town Inverter List Updated 2024

Approved City of Cape Town Inverter List Updated 2024. We are closing for the festive season on the 19th of Dec at noon and will r...

GW Store Renewables

Approved Tariffs for 2025/26 Financial Year

Approved Tariffs for 2025/26 Financial Year. Tariffs Booklet. Consolidated Tariffs. City of Johannesburg Metropolitan Mu...

City of Johannesburg

To ensure your solar system is fully insurance-compliant and eligible for municipal credits in 2026, your installer must provide a specific set of documents.

Insurers generally treat solar systems as fixed property under building insurance, but they may reject claims for fire or weather damage if the following "paper trail" is missing.

1. Mandatory Technical Documents

Electrical Certificate of Compliance (COC): This is a legal requirement. It must be issued by a registered Installation Electrician (IE) or Master Installation Electrician (MIE) and specifically cover the new solar and battery components.

PV GreenCard: Issued by a SAPVIA-accredited installer, this digital document captures the technical details of the installation and serves as a quality guarantee for insurers and banks.

Engineering Sign-off (Structural Certificate): For roof-mounted systems, many insurers now require a structural engineer's report to confirm your roof can safely handle the additional weight and wind load of the panels.

2. Municipal & Grid-Feeding Documents

SSEG Registration Approval: All grid-tied systems must be registered with your local municipality or Eskom. For those in Randburg (City Power), this process is mandatory by March 2026 to avoid fines.

Single Line Diagram (SLD): A technical drawing of your system's electrical layout, typically signed by an ECSA-registered professional, which is required for municipal approval.

Inverter NRS 097-2-1 Certificate: Proof that your inverter is on the approved list for safety and grid stability.

3. Handover & Warranty Pack

Detailed Invoice: Must list the specific brand, serial numbers, and capacities of the panels, inverter, and batteries.

Workmanship Warranty: A written guarantee from the installer (typically 12 months) covering the physical installation work.

Component Manuals & Manufacturer Warranties: Essential for future maintenance and for ensuring you are covered if a specific part (like a battery) fails.

Actionable Next Step

Before the team leaves your property, ask for the CoC and PV GreenCard immediately. Most insurers will not add the system to your policy without these.

Would you like a list of specific questions to ask your insurer to ensure your monthly premium covers the full replacement value of the system?

Energy Certificates Required for Solar-Powered Businesses in ...

29 Jun 2025 — Electrical Certificate of Compliance (CoC) * Registered Person License. * Registered Contractor License. * And proof of...

rentech.co.za

Registration of solar systems in SA - SA Accounting Academy

23 Feb 2025 — Summary: It has been confirmed that you need to register your solar system in South Africa with the municipality or Esk...

SA Accounting Academy

The Hidden Risk in Unregistered Solar Installations

08 Apr 2025 — However, a crucial regulatory requirement is often overlooked: the mandatory registration of grid-tied solar systems wi...

Financial Intermediaries Association of South Africa (FIA)

To ensure your solar system is fully covered for its new-for-old replacement value in 2026, you should contact your building insurance provider and ask the following questions:

1. Coverage & Valuation

"Does this fall under Building Insurance or Home Contents?"

Fixed systems (panels on the roof) are usually covered under Building Insurance. If any part is "loose" (like a portable power station), it may need to be under Home Contents.

"What is my new total Sum Insured?"

You must increase your total building cover by the current replacement cost of the system, including labour, to avoid being "underinsured".

"Do I need to specify serial numbers and brands?"

Some insurers require specific listing of expensive components (inverters and batteries) to avoid payout limits, while others cover them as general "fixtures and fittings".

2. Specific Perils & Exclusions

"Is theft of panels covered while they are on the roof?"

External theft is sometimes sub-limited or excluded unless specifically added to your "All Risks" section.

"Are power surges covered if they originate from the grid?"

Insurers often require surge arrestors to be installed on your distribution board as a condition for this cover.

"Am I covered for hail and wind damage?"

Confirm if there are specific deductibles (excess) for weather-related damage to glass panels.

3. Compliance & Payout Terms

"Will you reject a claim if my system is not registered for SSEG with the municipality?"

As of 2026, many insurers require proof of municipal/Eskom registration (due by March 2026) to honour claims, especially for fire.

"Do you require a structural engineer's certificate?"

Some policies will not cover roof leaks or collapses caused by panels unless a professional engineer has signed off on the roof's weight-bearing capacity.

"In the event of a claim, is the payout in cash or replacement?"

Some 2026 policies have shifted to cash-only settlements, which places the responsibility on you to source a new installer and quality parts.

Pro Tip for Sectional Titles: If you live in a complex, the body corporate usually insures the building. You must ask the Body Corporate to increase the "Participation Quota" (PQ) or add your specific system to their master policy.

Remember to insure your home solar-power system - Nedbank

30 Sept 2024 — How to insure your home solar system. Once installed, a solar-energy system becomes part of the building and fixtures...

Nedbank

Securing Solar: Ensuring Safety and Insurance Coverage for ...

30 Jun 2024 — For homeowners, solar panels qualify as permanent fixtures or fittings to a home and should be insured on your building...

Pogir Group

Insuring Your Solar Panel System Guide - Auto & General

17 Jun 2025 — Other Considerations * Weather Considerations: In areas prone to extreme weather, ensure higher coverage for potential ...

www.autogen.co.za

Subject: Addition of Solar PV System to Building Insurance Policy - [Your Policy Number]

Dear [Broker/Insurer Name],

I have recently installed a renewable energy system at my property in [Suburbs/Randburg] and would like to update my policy to ensure full coverage as of January 2026.

Please confirm the addition of the following system to my Building Insurance and provide an updated schedule:

System Specifications:

Total Installation Cost: R [Insert Amount] (VAT incl.)

Inverter: [Brand & Model, e.g., Sunsynk 8kW]

Battery Storage: [Brand & Capacity, e.g., Freedom Won 10kWh]

Solar Panels: [Number of panels] x [Wattage]

Installation Date: [Date]

Accreditation: Installed by a PV GreenCard certified professional.

Please provide written confirmation on the following:

Sum Insured: Has my total building sum insured been increased by the amount listed above to avoid underinsurance?

Theft & Weather: Does the policy cover theft of panels from the roof and damage caused by hail or wind?

Power Surges: Am I covered for grid-originated power surges affecting the inverter/batteries?

Compliance Documents: I have the Electrical CoC, PV GreenCard, and SSEG Municipal Registration on file. Do you require copies of these now to validate future claims?

Excess: Is there a specific or additional excess applicable to solar-related claims?

I look forward to receiving the updated policy schedule reflecting these changes.

Kind regards,

[Your Name]

[Your Phone Number]

Does this also apply to a wind turbine installation?

Yes, many of the same principles apply to wind turbine installations, although there are a few technical and regulatory differences to keep in mind for 2026.

1. **Tax Incentives (Businesses)**

Standard Section 12B: Businesses can claim a three-year accelerated depreciation allowance for wind turbines (50% in year one, 30% in year two, and 20% in year three). This deduction includes the cost of the turbine, foundation, and supporting structures.

Enhanced 125% Allowance (Expired): Note that the temporary 125% "Section 12BA" bonus for wind and other renewables ended on February 28, 2025. Any installation brought into use in 2026 reverts to the standard three-year schedule.

2. Financing & Small-Scale Loans

Energy Bounce-Back (EBB) Scheme: While the EBB scheme primarily targets solar PV, some banks may consider small-scale wind turbines if they are part of a hybrid renewable energy system (e.g., wind + solar). It is best to check with your specific lender (Standard Bank, FNB, etc.) for their current 2026 criteria regarding standalone wind.

3. Municipal & Insurance Compliance

SSEG Registration: Just like solar, wind turbines connected to the grid must be registered as Small-Scale Embedded Generation (SSEG). You will need a bidirectional meter and an inverter that meets the NRS 097-2-1 standard.

Zoning & Noise Bylaws: Unlike solar, wind turbines are subject to stricter local zoning laws. You may need a specific permit if the turbine exceeds a certain height or if there are noise restrictions in your residential area.

Engineering Sign-off: Insurers are particularly strict about wind turbines due to the structural stress they place on roofs or towers. You will almost certainly be required to provide a Structural Engineer's Certificate for the mounting and a Certificate of Compliance (CoC) for the wiring.

4**. Differences in Insurance**

Mechanical Breakdown: Because wind turbines have moving parts, they are more prone to mechanical failure than solar panels. Ask your insurer if mechanical breakdown is included, or if the policy only covers "accidental damage" like fire or hail.

Liability: Ensure your policy includes Third-Party Liability in case the turbine or a blade becomes detached and causes damage to a neighbour's property.

Would you like me to check if there are any specific wind turbine height restrictions in the Randburg/Joburg area for 2026?

Updates to renewable energy tax allowances - Forvis Mazars

26 Mar 2025 — Section 12ba – the 125% allowance that once was. Section 12BA of the Income Tax Act ("the Act") was introduced for qual...

Forvis Mazars

FREQUENTLY ASKED QUESTIONS - City of Cape Town

The primary reasons for requiring authorisation are: SAFETY: Non-compliant SSEG systems could electrocute City personnel if electr...

City of Cape Town

Requirements for Small-Scale Embedded Generation | City of Cape ...

The purpose of these Requirements is to define the City of Cape Town's minimum requirements and application and authorisation proc...

In 2026, wind turbine installations in Johannesburg (including Randburg) are governed by the City of Johannesburg Land Use Scheme and municipal by-laws. Because turbines are "moving" structures, they are far more strictly regulated than solar panels.

1. Key Height & Placement Restrictions

Permitted Height: Generally, structures in residential-zoned areas (Residential 1) are limited to one or two storeys unless specific permission is granted. Any mast or turbine exceeding the standard height of your primary dwelling typically requires a Building Line Relaxation or Consent Use application.

Buffer Zones (Setbacks): Most urban regulations require a "safety fallback" distance. A common standard for small turbines is that the distance to your neighbor's boundary must be at least 1.1 to 1.5 times the total height of the turbine (including the blade tip).

Blade Clearance: For safety, the lowest part of any moving blade must usually be at least 5 meters above ground level.

2. **Noise & Nuisance Regulations**

Noise Limits: Johannesburg follows SANS 10103 rating levels. In suburban areas, the night-time noise limit at your neighbour's boundary is typically 40 dBA. Because wind turbines can be noisy in high gusts, you may need to provide a technical spec sheet to prove the turbine won't exceed this.

Flicker/Shadow: If the turbine blades cause a "strobe" effect (shadow flicker) in a neighbour's window, it can be classified as a nuisance under city by-laws, allowing neighbours to demand its removal.

3. Necessary Approvals for 2026

Building Plans: Even for a small turbine, you must submit a Site Development Plan (SDP) to the City of Johannesburg if the structure is permanently fixed to the ground.

Engineer Sign-off: A Structural Engineer must certify the tower's foundation and the hitch plate at the top to ensure it can withstand Gauteng's severe summer thunderstorms.

Aviation Clearance: If you are near an airport or flight path (like Grand Central or Lanseria), any structure over a certain height may need Civil Aviation Authority (CAA) clearance.

Is it worth it in Randburg?

Inland areas like Randburg often have lower average wind speeds (Gauteng averages are often below the 5m/s threshold needed for efficiency). Most experts recommend solar PV as the primary investment, with wind only as a supplementary "hybrid" option if you have a particularly exposed, high-wind location.

Would you like the 2026 fee schedule for City of Johannesburg building plan submissions, or do you want to check if your specific erf/stand size is large enough to meet the setback requirements?

Residential wind turbines for homes in Gauteng, South Africa

26 Oct 2025 — That is a low resource for micro-wind. Rooftop mounting performs worst because of turbulence. Even freestanding turbine...

greenhouse.co.za

CITY JOHANNESBURG LAND USE SCHEME, 2018 Review 1

This restriction may be relaxed on submission of a written consent to the local authority. (7.) The height of any structure on the...

City of Johannesburg

Viability of Installing a Wind Turbine at Your Home

15 May 2022 — Residential wind turbines can be ground mounted or installed on your roof. The height of a wind turbine's tower also af...

Green Building Africa

In 2026, the City of Johannesburg (CoJ) applies specific land-use and building regulations to wind turbines, which are categorized as "Renewable Energy Structures." Unlike solar panels, wind turbines require a more rigorous approval process due to their height and potential for "nuisance" (noise and vibration).

1. 2026 Fee Schedule (City of Johannesburg)

Based on the approved tariffs for the 2025/2026 financial year, these are the estimated municipal fees for submitting plans for a renewable energy structure:

Plan Submission Fee: Approximately R25.00 to R30.00 per m^2 of the structure's footprint (minimum charges often apply, typically around R1,000 - R1,500 for small structures).

Site Development Plan (SDP): If the city classifies your turbine as a major addition or requiring specific placement, an SDP application fee is roughly R1,185 to R1,434.

Building Line Relaxation: If the turbine must be placed closer to a boundary than allowed, the application fee for a relaxation is approximately R675 to R1,074.

Consent Use Application: If your zoning (Residential 1) does not explicitly allow for wind energy structures, a consent use application may be required, costing approximately R1,000 to R1,500 in municipal fees.

2. Setback & Erf Size Requirements

To determine if your Randburg stand is large enough, you must apply the 1.5x Height Rule used by most South African municipalities for renewable energy structures.

The 1.5x Rule: The turbine must be set back from any boundary or residential structure by a distance equal to 1.5 times the total height of the turbine (including the blade tip at its highest point).

Example Calculation:

If your turbine mast is 10m and the blade is 2m, the total height is 12m.

Required setback = 12m × 1.5 = 18 meters.

Result: You must be able to place the turbine tower at least 18 meters away from every neighbour's fence and your own house.

Erf Size Impact: For most standard suburban stands in Randburg (typically 500m² to 1,000m²), meeting an 18-meter setback in all directions is often impossible. Wind turbines are generally more feasible on "Agricultural Holdings" or larger residential estates.

3. Additional Constraints

Blade Ground Clearance: The lowest point of the moving blade must be at least 5 meters above ground level for safety.

Noise (SANS 10103): You cannot exceed the residential night-time noise limit (typically 40 dBA) at your neighbour's boundary.

Structural Certification: All wind turbine submissions in 2026 must include an engineering certificate confirming the foundation can withstand Gauteng's high-wind thunderstorm events.

Next Step: Would you like me to find the contact details for the Randburg Land Use Management office so you can verify your specific property's zoning restrictions?

7 sites

Planning Ordinance - South African Wind Energy Association

(ii) the inclusion, in paragraph 2.5, Table B and paragraph 3.1.1 of the scheme regulations as contemplated in paragraph l(a) abov...

South African Wind Energy Association

Fees Schedule 2025 / 2026 - City of Johannesburg

30 Jun 2025 — Application Submission Manual - Version 1 of 2025/2026. The following charges will be effective from 1 July 2025 – 30 J...

City of Johannesburg

Fees Schedule 2022 / 2023 - City of Johannesburg

Application to alter, amend or partially or totally cancel the General Plan of an approved (proclaimed) township. R1 015 R 1 074 4...

City of Johannesburg

In 2026, the City of Johannesburg's Development Planning department remains centralized at the Metro Centre in Braamfontein for technical zoning approvals, though general inquiries can be handled at the local Randburg office.

1. Local Randburg Contact (General Inquiries)

For initial consultations, document submissions, or general zoning map lookups, visit the Randburg Civic Centre:

Physical Address: Cnr Bram Fischer Drive and Jan Smuts Avenue, Randburg.

Customer Service Phone: +27 11 919 5700.

Operating Hours: Monday – Friday: 07:30 – 15:30 (Closes at 14:00 on Fridays).

2. Specialized Land Use & Zoning Contacts (Technical)

For specific wind turbine "Consent Use" or height relaxation queries, you should contact the Area C (Randburg) planners directly. They are physically located at the Metro Centre in Braamfontein but handle the Randburg district:

Randburg Area Planner (Direct Line): +27 11 407 6140.

Central Land Use Management Line: +27 11 407 6244.

Physical Inspection of Zoning Schemes: 8th Floor, Metro Centre, 158 Civic Boulevard, Braamfontein (08:00 – 15:30).

3. Online Mapping & Property Information

If you want to check your property's zoning and restrictions yourself before calling:

Corporate GIS Help Desk: +27 11 407 6192/4 or email ims@joburg.org.za.

Joburg eServices: Use the Online Maps Portal to search for your Erf number and view any "restrictive conditions" or zoning overlays.

Essential Advice for 2026

Log a Ticket First: For any formal request, the City requires you to first call Joburg Connect at 0860 56 28 74 (0860-JOBURG) to receive a reference number. Without this number, technical departments may not prioritize your inquiry.

Ask for a "Symmetry Check": Ask the planner on duty if your property falls under a "heritage" or "aviation" overlay, as this adds an extra layer of height restriction for wind turbines.

Would you like the direct email addresses for the specific Assistant Directors in charge of Building Inspections for Region B/C (Randburg) to discuss the physical structural requirements?

Pages - Zoning-Theme - Joburg eServices

The Town Planning Scheme is open for inspection at the Metro Centre, 8 th floor, 158 Civic Boulevard, Braamfontein, between 8:00 a...

Joburg eServices

Land Use Management - City of Johannesburg

Table_title: Contact Information for Land Use Management's Planners on Duty Table_content: header: | Area A (Midrand area) | 407-6...

City of Johannesburg

About Land Use Management - City of Johannesburg

Table_title: Contact Information for Land Use Management's Planners on Duty Table_content: header: | Area A (Midrand area) | 407-6...

of Johannesburg

In 2026, the City of Johannesburg’s Building Development Management department oversees structural approvals for renewable energy systems. For properties in Region B and C (which cover Randburg and surrounding areas), the following officials are your primary technical contacts:

1. Building Inspections (Structural & Enforcement)

If you need to discuss the physical site requirements, noise complaints, or engineering inspections for a wind turbine, contact:

Assistant Director (Region B & C): Sanele Ndumela

Email: SaneleN@joburg.org.za

Mobile: +27 67 617 5638

Building Control Officer: Maruping Broderick Chiloane

Email: MarupingC@joburg.org.za

Best contact for: General compliance issues and scheduling site visits.

2. Building Plan Submissions (Administrative)

If you are submitting a new Site Development Plan (SDP) for a turbine mast:

Assistant Director (Admin & Systems): Sanjay Khadua

Email: SanjayK@joburg.org.za

Best contact for: Questions regarding plan pre-scrutiny and invoicing for submission fees.

3. Land Use & Zoning (Consent Use)

Because wind turbines often require "Consent Use" for residential areas, you may need to speak with the planning team:

Assistant Director (Land Use Management): Marietjie Reinecke

Email: MarietjieR@joburg.org.za

Best contact for: Zoning inquiries and land-use application processing.

Important Submission Notes for 2026

Pre-Scrutiny: All plans for renewable energy structures must undergo "Pre-Scrutiny" at the Braampark Office Park (33 Hoofd Street, Braamfontein) before formal submission.

Reference Numbers: Ensure you have logged a general inquiry through the Joburg Connect Call Centre at 0860 56 28 74 to get a reference number before contacting the directors directly.

Contact Us - City Of Joburg - City of Johannesburg

Building Inspections * Nkululeko Brian Mkhize. Building Inspections Region A & E. Assistant Director: Building Inspections. Nkulul...

City of Johannesburg

Call Centre - City of Johannesburg

Call Centre. ... The City offers a single point of contact to streamline its service to you – by doing so it keeps track of all in...

City of Johannesburg

Development Planning – Accessing The Department - JoburgCAN

24 Oct 2024 — Accessing of Building Plan Archives: – * By calling in personally at the Braampark Building opposite the Civic precinct...

Joburg Community Action Network

In 2026, the City of Johannesburg's building inspectors and planners will evaluate your wind turbine against specific SANS (South African National Standards). To pass inspection and maintain insurance validity, your technical pack must include the following specifications:

1. Acoustic/Noise Specifications (SANS 10103)

The city is very strict regarding "noise nuisance" in residential Randburg.

The Limit: The turbine must not exceed 40 dBA at your property boundary during the night (22:00 – 06:00).

The Spec Sheet: You must provide the manufacturer’s Sound Power Level (Lw) data sheet. Inspectors will look for turbines with "low-tip-speed ratios" or vertical axis designs (VAWT), which are generally quieter than traditional 3-blade horizontal turbines.

2. Structural & Safety Certifications

SANS 10160 (Wind Loading): Your structural engineer must certify that the mast and foundation can withstand "Design Wind Speeds" for Gauteng, which include allowances for gusts up to 120km/h during summer storms.

Braking System: The turbine must have an automatic overspeed protection system (mechanical or electronic braking) to prevent "runaway" in high winds, which can lead to structural failure.

Vibration Isolation: If the turbine is roof-mounted, you must show the use of vibration dampeners/isolators to prevent structural resonance from humming through the walls of the house.

3. Electrical Compliance (SANS 10142-1-2)

Inverter Standard: Just like solar, the inverter must be NRS 097-2-1 certified. This ensures the turbine "anti-islands" (shuts off) during a power outage to protect technicians working on the grid.

Lightning Protection: Given Randburg's high lightning strike rate, the system must have a dedicated Type 1 or Type 2 Surge Protection Device (SPD) and be integrated into your home's earth-leakage system.

4. Aviation & Visibility (CAA Requirements)

Day Marking: If the mast exceeds a certain height (usually 12m in urban areas), the blades may need to be painted in specific high-visibility colors (white with orange/red tips).

Aviation Lights: If you are within the flight path of Lanseria Airport, the city may require a low-intensity steady red light at the highest point of the mast.

The "Checklist" for your Inspector:

Before the official visit, ensure you have these three physical items ready:

Original Electrical CoC specifically mentioning the wind turbine.

Structural Engineer's "Form 4" (Completion of Structural Work).

Manufacturer's Technical Manual (to verify the dBA ratings).

Would you like a list of SANS-compliant turbine brands that are currently popular for South African residential use in 2026?

In 2026, the market for residential wind turbines in South Africa has matured, with several brands now offering models specifically designed for suburban use and local compliance standards (NRS 097-2-1 and SANS).

Top Popular & SANS-Compliant Brands for 2026

Kestrel Renewable Energy (Local Favorite):

Models: e160i (600W), e230i (800W), and e400n (3.5kW).

Why: Designed and manufactured in Gqeberha (Port Elizabeth), these are ISO 9001 and 14001 certified. They are built to handle the extreme 200km/h winds sometimes seen in South African storms.

TESUP (Vertical Axis Specialist):

Models: Atlas (10kW Vertical) and Magnum (10kW Horizontal).

Why: The Atlas model is a Vertical Axis Wind Turbine (VAWT), which is often preferred in Randburg as it is quieter and better at catching turbulent urban wind from any direction.

Bornay (Reliability):

Why: Known for over 45 years of development, these turbines are popular for grid-tie and battery charging applications in South Africa due to their high reliability and durability in extreme conditions.

Primus Wind Power (Compact Options):

Models: Air 30 (400W) and Air 40 (160W).

Why: These are smaller units often used in hybrid systems to supplement solar arrays during cloudy or night-time periods.

Odin Wind Turbines:

Why: Highly regarded for impressive low-wind performance, which is critical for inland Gauteng areas where average wind speeds are often lower than on the coast.

2026 Price Estimates (Installed)

Small Hybrid Add-on (400W–800W): R25,000 – R45,000.

Medium Residential Turbine (1kW–3.5kW): R75,000 – R175,000 (head only).

High-Capacity Home System (10kW): Approximately R18,000 – R30,000 (unit only) plus significant installation and tower costs.

Summary of 2026 Buying Advice

For a suburban area like Randburg, Vertical Axis Wind Turbines (like the TESUP Atlas) are increasingly the standard for 2026 because their "modern look" and low noise profile are more likely to be approved by neighbors and municipal inspectors.

Would you like me to find a specialist hybrid installer in Johannesburg who can quote on combining one of these turbines with your existing or planned solar system?

Pegasus Systems: Wind Turbines In South Africa | Renewable Energy ...

Bornay Wind Turbines Bornay Turbines are the best on the market. Applications: Battery Charging , Grid Tie, Water Pumping. Low to ...

pegasus-systems.co.za

Micro Wind Turbines | Kestrel Renewable Energy

Table_title: 4 Powerful models Table_content: header: | SMALL WIND TURBINE CLASS | 11 | row: | SMALL WIND TURBINE CLASS: MAXIMUM P...

For hybrid solar and wind installations in Johannesburg (including Randburg) for 2026, here are several accredited and highly-rated specialists who can provide quotes on combining wind turbines with solar systems.

1. Specialists in Hybrid Wind & Solar

These companies have specific experience integrating micro wind turbines with existing or new solar setups:

Image of Evergreen Wind And SOLAR

Evergreen Wind And SOLAR

5.0

(5)

Solar energy company

Closed6 11th St

Location: 6 11th St, Delarey, Randburg.

Expertise: A direct local specialist for both technologies. They provide turnkey installations for residential and agricultural clients and are known for systems that "hold up excellently" over time.

Contact: 011 673 1065 / 076 424 1444 | evergreenwindsolar.co.za.

Kestrel Renewable Energy

Expertise: As a major South African manufacturer, they design and install full hybrid systems that integrate their locally made wind turbines with high-quality solar panels.

Contact: 041 401 2500 (Head Office) or via their Enquiry Portal for Johannesburg-based agents.

2. Technical Consultants & High-End Installers

If you have a complex system or require extensive engineering sign-off for a large turbine:

The Green Way Solar (Strydompark / Randburg): Specialists in industrial-sized hybrid systems and complex battery integrations. Contact: 011 568 4266.

Energy (Fairland / Randburg): Offers reliable technology comparisons across different energy systems to provide "full turnkey solutions".

Contact: 010 745 4752.

Pegasus Systems: They are the primary importers for Bornay and Primus turbines, often used in hybrid applications for low to extreme wind conditions.

Contact: pegasus-systems.co.za.

Next Steps for a Quote

When contacting these installers, ask specifically for a "Hybrid System Performance Simulation". For Randburg, you want them to prove that the wind turbine will generate enough power during the night or overcast days to justify the extra mast and installation costs.

List of technical questions you should send to these installers to ensure their quote includes the necessary Randburg municipal sign-off fees?

Kestrel wind turbines

OVER A FEW THOUSAND INSTALLATIONS. PATENTED TECHNOLOGY WITH AUTOMATIC CONTROL. DESIGNED FOR 200KM/H WINDS. LOW. MAINTENANCE. DESIG...

Kestrel wind turbines

Contact Us | Kestrel Renewable Energy

Kestrel Contact Details * Zikhona Kapi. Business Administrator. zikhona.kapi@eveready.co.za. * Andrew Swanepoel. Operations Manage...

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About Us | Kestrel Renewable Energy

What We Do. Kestrel offers full renewable energy solutions for household, agricultural, telecommunication, education, rural, and c...

Kestrel wind turbines

To ensure your quote is comprehensive and covers the strict 2026 Randburg municipal requirements, send these specific questions to your shortlisted installers.

A "low" quote often excludes the expensive administrative and engineering sign-offs required by the City of Johannesburg (CoJ).

1. Municipal & Regulatory Compliance

"Does your quote include the City Power SSEG registration fee?"

(All grid-tied wind/solar hybrids must be registered to avoid the R10,000+ fines currently being issued for illegal connections.)

"Will you handle the Building Line Relaxation or 'Consent Use' application with the Randburg Land Use office?"

(A turbine mast often requires specific municipal permission if it sits near a boundary.)

"Is the inverter you've quoted on the 2026 NRS 097-2-1 Approved List?"

(If it isn't, the city will not allow you to connect it to the grid or sell back power.)

2. Structural & Safety Engineering

"Does the price include a Structural Engineer's 'Form 4' completion certificate?"

(Insurers and the city require a professional engineer to sign off on the turbine foundation and mast safety.)

"What is the 'Survival Wind Speed' of the mast and turbine?"

(For Randburg, this should be at least 120km/h to survive Gauteng's severe summer thunderstorms.)

"What 'Vibration Isolation' measures are included if the turbine is roof-mounted?"

(This is crucial to prevent structural humming and neighbor complaints.)

3. Performance & Warranty

"Can you provide a Hybrid Performance Simulation based on Randburg's average wind speeds (approx. 3-4m/s)?"

(You want to see if the turbine actually generates power in your specific area, or if it will mostly just spin for show.)

"Is the warranty for the turbine 'Parts and Labour', and who is the local service agent?"

(Avoid brands that have to be shipped back to Europe or China for repairs.)

"Does the quote include a Type 1 Lightning Surge Protector?"

(Essential in Johannesburg's high-strike environment to protect your inverter and batteries.)

4. Acoustic Impact

"Do you guarantee that the turbine will remain under 40 dBA at my neighbor's boundary?"

(Ask if they have a noise dampening kit if the turbine exceeds this during high-wind gusts.)

What to look for in the response:

If an installer says, "You don't need a permit for a small turbine," be cautious. In 2026, the City of Johannesburg is actively using aerial photography and smart meter data to identify unregistered renewable installations.

Comparison table of the current 2026 feed-in tariffs for Randburg versus other metros to see how much you could earn back from your wind/solar combo?

In 2026, selling excess power back to the grid (net billing) is the primary way to recover costs from your wind and solar system. While Johannesburg has approved tariffs, Cape Town remains the most lucrative for residents due to its additional cash incentives.

2025/2026 Feed-In Tariffs Comparison

Metro	Est. Export Rate (c/kWh)	Monthly Fixed Charge	Key 2026 Benefit
Randburg (City Power)	~85.50c	~R200 (Prepaid High)	Standardized rates for registered users; credits municipal bill.
Cape Town	~87c – 92c + 25c bonus	~R1.97/day + VAT	Cash Payouts allowed annually if credits exceed R1,000.
eThekwini (Durban)	~136c [4.2]	~R485 (Service Charge)	High export rate, but high monthly service charges.
Tshwane (Pretoria)	Variable	TBD	Process is being formalized; registration is required to avoid fines.
Eskom (Direct)	~Homeflex rate	Zero (until March 2026)	Free registration and smart meter for systems <16kVA until March 2026.

Key Considerations for Your Hybrid System

Fixed Charges vs. Earnings: In Randburg, the R200 monthly charge for "Prepaid High" users means you need to export roughly 234kWh per month just to break even on that specific fee.

The "Winter Gap": Wind turbines are most valuable during Gauteng's winter months when solar yield is lower but wind speeds can be higher. This helps offset the higher winter electricity tariffs, which can reach over R3.48/kWh for high usage.

Registration Amnesty: If you are an Eskom-direct customer, take advantage of the zero-fee registration window ending in March 2026. This saves several thousand Rand in administrative and smart-meter costs.

City Power Penalties: As of 2026, City Power is increasingly strict about unregistered systems. Feeding power back without a bidirectional meter can cause "reverse-flow" errors that actually charge you as if you were consuming that power.

Would you like me to calculate a break-even timeline based on your current monthly electricity bill and the cost of a hybrid system?

11 sites

Apply to sell surplus SSEG electricity to ... - City of Cape Town

p> - Residential customers: one payout a year, once the amount exceeds R1000. - Commercial customers: one payout a mont...

City of Cape Town

Understanding-residential-electricity-tariffs.pdf - City of Cape Town

B. ... You receive more than 450 kWh per month on average over any 12 consecutive month period, and if you have a prepayment meter...

City of Cape Town

tariff increases - EThekwini Municipality

26 Oct 2025 — * Scale 3, 4, 8, 9, 13. 12.72% Energy Charge. 327,95 (c/kWh) Residential Customers Free Basic Electricity customers 12.

EThekwini Municipality

This document summarizes the 2026 landscape for investing in sustainable energy (Solar and Wind) in South Africa, specifically tailored for a resident or business owner in Randburg, Johannesburg.

2026 South Africa Green Energy Comprehensive Guide

1. Financial Incentives & Tax Breaks

In 2026, the South African government continues to support renewable adoption through targeted fiscal measures:

For Businesses

Section 12B Tax Allowance: 100% upfront tax deduction for solar PV systems under 1MW. Larger systems and wind turbines follow a 50/30/20% three-year accelerated depreciation schedule.

EV Manufacturing (New for 2026): A 150% tax deduction is available for investments in electric and hydrogen vehicle production.

Carbon Tax: As of Jan 2026, the carbon tax has risen to approximately R462/tonne CO2e, making green energy a critical cost-saving measure for large emitters.

For Citizens

Energy Bounce-Back (EBB) Loan: Government-backed loans at Prime + 2.5% for solar, wind, and storage. Apply via the green desks at Standard Bank (LookSee), FNB (nav»Energy), Absa, or Nedbank.

Feed-In Tariffs: You can sell excess power back to the grid. In Randburg (City Power), the 2026 export rate is approximately 85.50c/kWh, credited against your municipal bill.

2. Installation & Compliance Checklist

To qualify for insurance, municipal credits, and legal operation, your installation must produce a "Paper Trail":

Electrical CoC: Legal certificate from a registered electrician.

PV GreenCard: Industry-standard quality assurance for the installation.

SSEG Registration: Mandatory registration with City Power (deadline: March 2026 to avoid fines).

Structural Engineering Sign-off: Particularly for wind turbines or large roof arrays to ensure the roof can handle 120km/h Gauteng storm gusts.

Approved Equipment: The inverter must be on the NRS 097-2-1 Approved List.

3. Focus on Wind Turbines in Randburg

Wind turbines are more strictly regulated than solar due to noise and movement.

Height & Setbacks: The "1.5x Height Rule" applies. A 10m turbine must be at least 15 meters away from every boundary.

Noise (SANS 10103): Noise must stay below 40 dBA at your neighbor’s boundary at night.

Brands for 2026:

Kestrel (Local manufacture, high durability).

TESUP Atlas (Vertical Axis—quieter and better for turbulent urban wind).

Bornay (High-end hybrid reliability).

4. Key Local Contacts (Region B & C - Randburg)

For zoning, building plans, and structural inspections:

Sanele Ndumela (Assistant Director, Inspections): SaneleN@joburg.org.za | +27 67 617 5638

Maruping Chiloane (Building Control): MarupingC@joburg.org.za

Marietjie Reinecke (Zoning/Consent Use): MarietjieR@joburg.org.za

Randburg Civic Centre: Cnr Bram Fischer & Jan Smuts Ave | 011 919 5700

5. Insurance Protocol

Contact your broker immediately after installation using this checklist:

Specified Sum Insured: Increase your building cover by the replacement value of the system.

Theft & Weather: Confirm coverage for panel theft and hail damage.

Liability: Ensure your policy covers "Third-Party Liability" (critical if a wind turbine blade detaches).

Registration: Many 2026 policies require your SSEG registration number to honor fire or surge claims.

6. Recommended Local Installers

Contact these specialists for a hybrid (Solar + Wind) quote:

Evergreen Wind and Solar (Delarey, Randburg): 011 673 1065.

SA Wind Energy (Sundowner, Randburg): 083 281 9523.

The Green Way Solar (Strydompark, Randburg): 011 568 4266.

Next Recommended Step: Use the City of Johannesburg Online Maps to verify your Erf number and check if your property size can accommodate the 1.5x height setback required for a wind turbine.