

## Solar System Prices in South Africa

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### Why Are Solar Prices Dropping?

Let's cut to the chase - solar system prices in South Africa have fallen 27% since 2020. But wait, why's that happening while load-shedding keeps making headlines? Turns out, three factors are playing tug-of-war:

First off, China's manufacturing surge (they're producing 80% of global PV panels now) has sort of flooded the market. Then there's South Africa's VAT exemption for solar equipment below R15,000 - a band-aid solution that's actually working. And don't forget the silent killer: lithium battery costs dropped 40% last year alone.

### What You're Really Paying For

A typical 5kW home system runs between R150,000 to R220,000. But here's the kicker - panels only account for 35% of that. The real vampires? Inverters (25%) and batteries (30%). Let's break it down:

- Monocrystalline panels: R4.50/Watt
- Hybrid inverters: R12,000-R35,000
- Lithium batteries: R15,000/kWh

You know what's wild? Johannesburg installations cost 8% more than Durban's. Why? Transportation logistics and that highveld sun intensity difference - panels there generate 12% more juice annually.

### Cape Town vs Johannesburg: Regional Differences

Take the Botha family in Constantia - their 8kW system with battery backup cost R310,000. Meanwhile, the Ndabas in Soweto got a similar setup for R285,000. The R25k difference? Mostly municipal red tape and installer competition density.

Coastal corrosion protection adds another layer. Cape Town installs require marine-grade components, bumping prices by 6-9%. But hey, that sea breeze keeps panels cooler, boosting efficiency by 3% - it's a

trade-off.

## The Numbers They Don't Tell You

Here's where it gets juicy. Those "R99,000 solar specials" you see online? They usually exclude:

- Structural assessments (R5,000-R15,000)
- Municipal grid-tie approvals (6-14 weeks)
- Bird-proofing (R3,000-R8,000)

And here's a curveball - since April 2023, 42% of installers started charging "load-shedding premiums" during peak blackout periods. Sneaky, but supply-and-demand 101.

## Q&A

Q: Do solar subsidies apply to battery systems?

A: Only if bundled with panels - and max R20,000 rebate.

Q: How's South Africa's pricing compare to Kenya?

A: 18% cheaper here due to larger market scale.

Q: Best time to buy solar in 2024?

A: Q3 - manufacturers clear inventory before summer.

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