



A Unique Guest Experience



Move Smarter.

EDITION 6 | JAN 2026

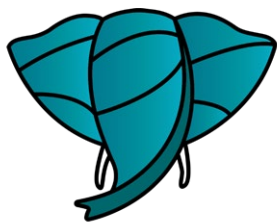
At CHARGE, the guest experience comes first.

Great coffee, clean bathrooms, and carefully chosen locations — each reflecting the charm and uniqueness of its farm stall — turn every charging stop into a comfortable, considered pause.

Charging should feel effortless — with reliable power, welcoming spaces, and attention to detail that makes every visit better than expected.



KönigTM
COFFEE



BIGGI

WORLDWIDE | PREMIUM | POPCORN



Designed and built with our guests' needs in mind.

OFF-GRID EV CHARGING STATION | CHARGE N12 WOLMARANSSTAD








**FIRST 30
ROLLOUT**


**SECOND 30
ROLLOUT**

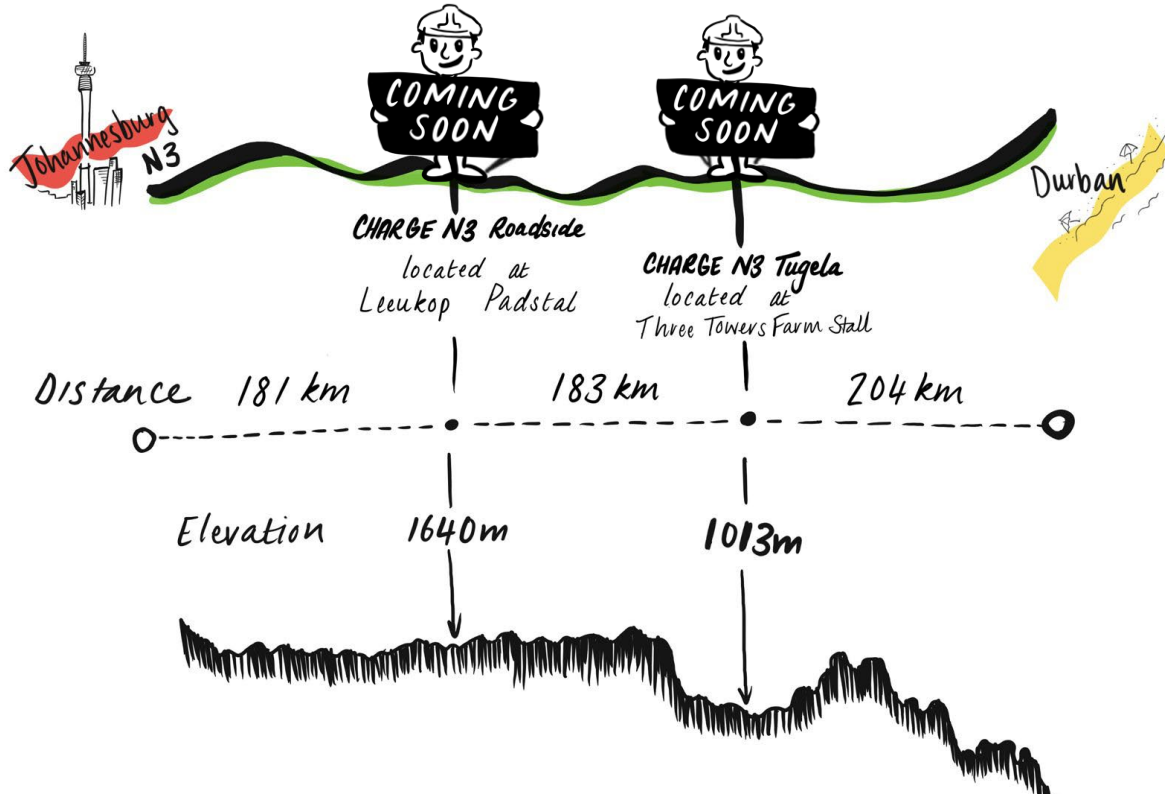
**FREE AC
CHARGING
coming in
2026!**

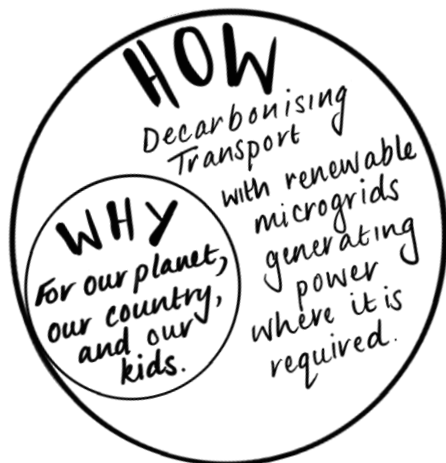
Accessible via the
CHARGE
mobile app at all
CHARGE stations.
Limited time offer
for one year.



2026

Unlocking the N3 from Johannesburg to Durban.





FOR OUR PLANET

CHARGE is decarbonising transport.

OUR COUNTRY

- Localising energy production
- Enabling the EV transition
- Energy independence & resilience
- Economic growth and local investment
- Creating new job opportunities

AND OUR KIDS

Future thinking.



A Growing National Network

Our initial 60 charging stations will mark the beginning of our national footprint, starting along the N3 and N1.



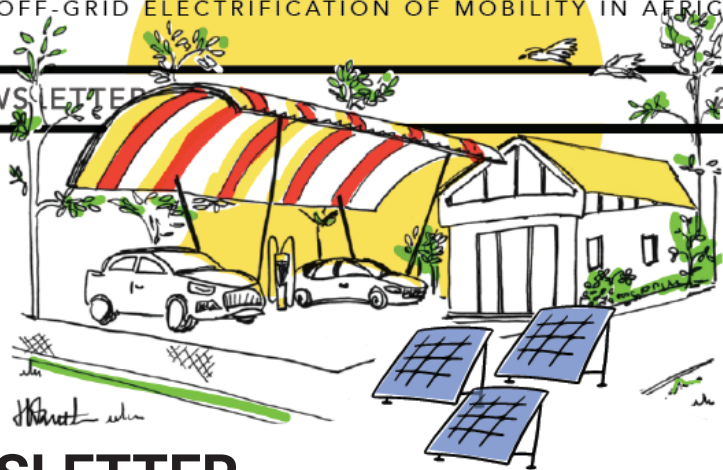
SCAN ME

THE ZERO CARBON POST

OFF-GRID ELECTRIFICATION OF MOBILITY IN AFRICA

NEWSLETTER

2026



NEWSLETTER

Subscribe and stay in the loop
about new charging stations launching



CHARGE N12 Wolmaransstad

located at Farm Flair Deli & Grillhouse

PILOT SITE | Technical Feasibility

OPEN and operating to specification and on budget.



Our solar-powered microgrids deliver:

Steady Pricing

Fuel hikes? Not with us. Solar means steady, predictable pricing.

Always-On Power

Energy generated where you charge - OFF-GRID.

Zero-Compromise Clean Energy

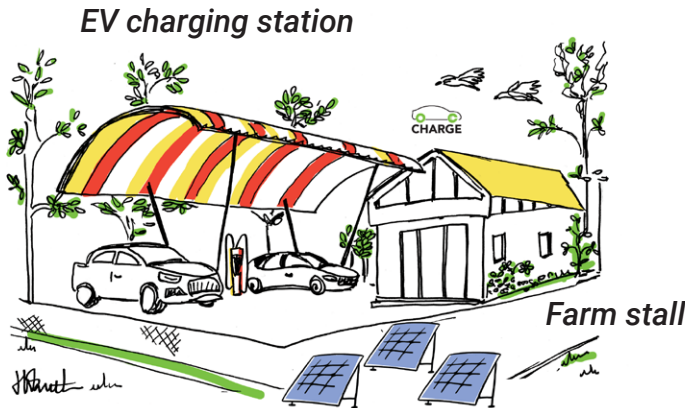
Now driving comes with a cleaner choice. Choose how you move.

Six ultra-fast chargers stand ready to receive passenger and commercial electric vehicles up to 8 tons.

- Two AC chargers coming in 2026
- Farm stall & restrooms
- Safe and secure parking



Off-grid EV charging stations offer a resilient, stable and scalable energy source independent of the national grid



Renewable energy microgrid

The CHARGE solution features on-site power generation and storage at each charging location, with a modular design that allows for efficient scalability to meet increasing demand.

WHY OFF-GRID?

Complementary to the grid:

Charging stations powered by microgrids will reduce future strain on the national grid. EVs will require 10-15% additional grid capacity.

Cost-Efficient:

Decreases long-term costs by harnessing free solar energy.

Power Ultra-Fast Charging:

Ensures sufficient power supply for ultra-fast EV chargers.

Resilient Power Supply:

Microgrids help to safeguard rural areas from disruptions due to grid failure, natural disasters, or geopolitical events, as they can generate and store their own energy. In SA, where access to electricity can be inconsistent, microgrids can provide a reliable and stable energy source.

Scalability:

Modular design allows for easy expansion to accommodate growing demand.

Energy Security & Import Replacement:

Enhances national energy security by boosting self-sufficiency. Lessens reliance on imported fuels and associated costs.

Energy and space needed for the transition

If all vehicles in South Africa converted to electric, the country would require a significant amount of energy — approximately 88.49 TWh.
To produce this energy, around 67 million kWp of solar panels would be needed.



While transitioning all vehicles in South Africa to electric will require significant energy, the land needed to generate that energy through solar power is minimal, representing just 0.07% of the country's total land area.

We are rolling out minimum viable product-sized charging stations throughout South Africa, providing widespread coverage. These stations are designed to **scale effortlessly in high-demand areas** using a modular approach.

The Value of a National Charging Network



Drives EV uptake:

Acts as a catalyst for the widespread acceptance and adoption of electric vehicles.

Reduces range anxiety and ensures that drivers can travel long distances with confidence.

First Mover Advantage:

Positions the network as a leader in the EV market.

Maximises Impact with Minimal Investment:

Focus on the smallest viable product.

Low break-even points.

Opportunities for Spin-offs:

Enables bundled charging services.

Attracts contractual logistics customers.

Consistency in Standards:

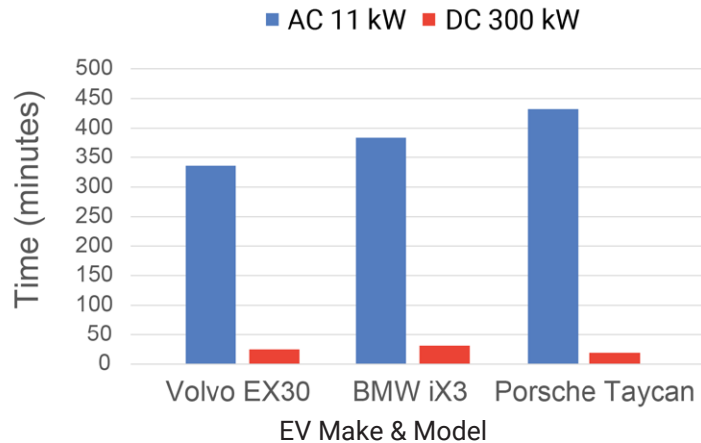
Promotes uniform charging protocols.

Enhances overall customer experience.

The superiority of fast charging is indisputable

Charging from 10% to 80%

AC vs DC Charging Times



Setting new standards with ultra-fast charging

CHARGE ultra-fast chargers can recharge most EVs
10% to 80% in about 25 minutes.

Charging speeds vary depending on the EV model.
Higher-spec cars can charge much faster than entry-level cars.

All our EV charging stations will be
equipped with six DC charging points.
(CCS2 connectors)

The stations are designed to scale up
easily to meet increasing demand.

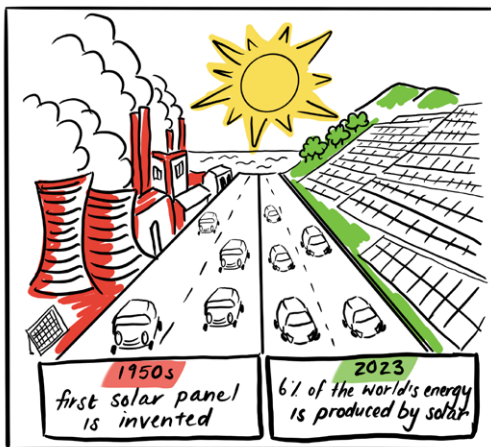


ULTRA-FAST

Zero Carbon Charge is leading the way in providing **renewable energy microgrid solutions** that offer **energy security, reliability, and price predictability**.

Our innovative approach not only supports the growing electric vehicle market but also **complements the existing energy grid, enhancing national energy security and alleviating pressure on Eskom.**

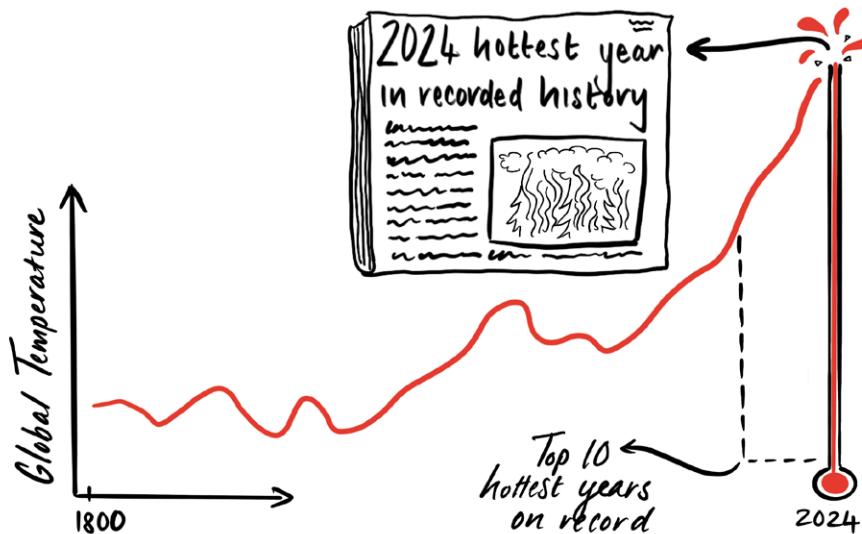
This decentralised energy model accelerates the decarbonisation of South Africa's transport sector.



As we continue to embrace the future of renewable energy and sustainable transportation, CHARGE is the partner that businesses and consumers can trust to power their transition with confidence.

Together, we can drive a cleaner, more reliable, and resilient energy future for all.

CHARGE is projected to reduce carbon emissions by 20 million tonnes over the next 20 years.



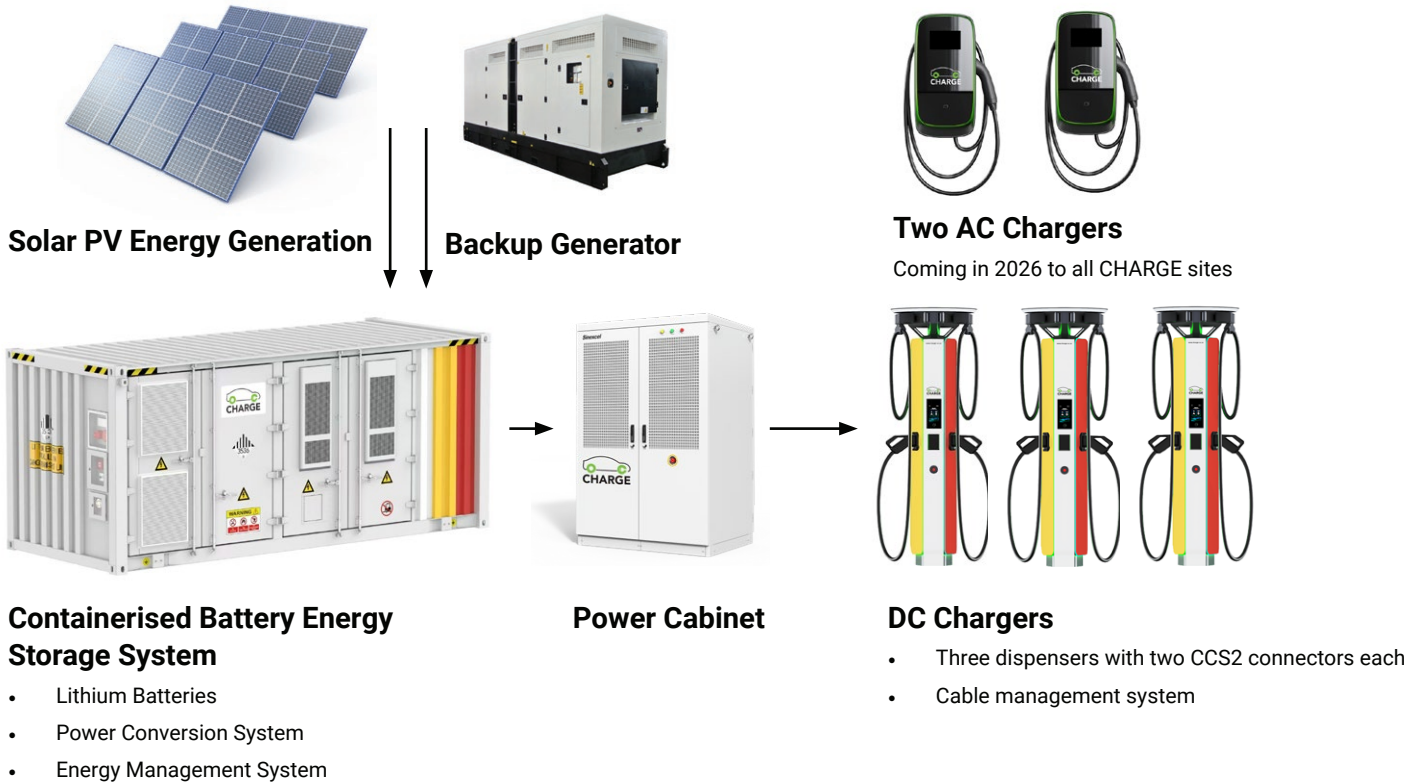
SOUTH AFRICA'S NET ZERO TARGET

CARBON NEUTRAL BY 2050

This goal is part of the country's commitment to the Paris Agreement and its broader climate strategy to reduce greenhouse gas emissions and mitigate the impacts of climate change.

Each EV recharged with Zero Carbon Charge clean power chargers will avoid, on average, 4.9 tonnes of CO₂e per year.

Hardware solution



Back Office & Mobile App

Our Charge Station Management System (CSMS) is a sophisticated yet user-friendly software platform that allows us to efficiently manage our network of solar-powered electric vehicle charging stations.

A centralised view of all charging stations enables monitoring statuses in real-time, tracking usage patterns, handling revenue effectively, and energy management. An intuitive dashboard means quick and easy operation.

Our CSMS significantly enhances the efficiency of managing charging stations, contributing to a smoother, more profitable operation.

CHARGE MOBILE APP

An intuitive app, designed to make your charging experience simple and enjoyable.

Charging Made Simple:

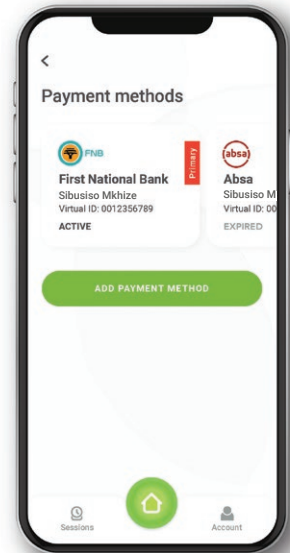
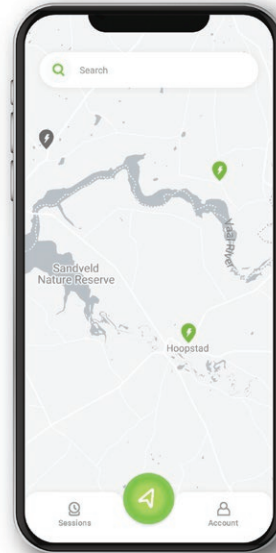
Locate available charging stations with ease.

Charging Status:

Monitor your EV's charging status on your phone.

Easy Payments:

Seamless and secure transactions for a hassle-free charging experience.



24/7 PROTECTION 365

**BOUNDARY
FENCE**

**ELECTRIC
FENCING**

LOCAL ARMED RESPONSE

**ACCESS
GATE**

SECURITY



24/7 SURVEILLANCE CAMERAS

Reliable power supply at both Zero Carbon Charge sites and Sefrisat headquarters, enhances security significantly. This is further supported by the Sefrisat in-house control centre.

Relationships with local security companies ensure prompt armed response to incidents.



BUSINESS PLAN BUILDING BLOCKS

REGISTERED VEHICLES: 11 million

ANNUAL NEW VEHICLE SALES:

on average +-450 000 passenger and light commercial

AVERAGE DISTANCE DRIVEN PER CAR PER YEAR:

25 000 km (18 000 miles)

ANNUAL RETAIL MARKETS

Petrol R245 billion

Diesel R255 billion

OUR TARGET MARKET

Home charging is expected to represent 50% of all charging, leaving **50%** of the charging market as **public charging**.

49% of the fuel market (petrol and diesel)

is consumed outside of the 15 largest cities and towns in SA

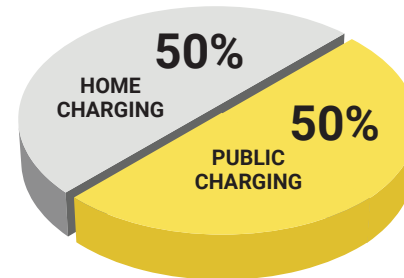
– the area in which our charging stations are planned.

We also assume that public charging will be approximately 25% lower than the equivalent petrol costs.

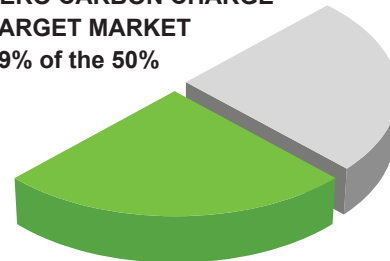
The net target market of CHARGE is then calculated as R45 billion annually. It is foreseen that as EV numbers grow,

the home charging will decline as a % of the charging market due to local capacity constraints.

ASSUMPTIONS



ZERO CARBON CHARGE TARGET MARKET 49% of the 50%



N3



Company founded

First tranche of 80 sites identified and signed up nationally

2022

Fully fledged team working full time
Key partnerships in place
with contractors and specialists
Commencement of construction
of first pilot station

2023

120+ Sites signed up and in permitting process

Pilot site, CHARGE N12 Wolmaransstad,
constructed on budget and
performing to specifications.

2024

DBSA approved ZAR100m
in equity funding for CHARGE.

Construction of next two stations
started on the N3.

2025

The planned opening of two charging stations
on the N3 will mark an important milestone in
connecting Johannesburg and Durban.

2026

Transformative Impact on South Africa

ENERGY LOCALISATION

Reduced reliance on foreign energy sources.

SOCIO-ECONOMIC IMPACT

Preservation of foreign exchange through

decreased crude oil imports.

Creation of permanent jobs.

Boost to the local economy.

Significant contribution to convenience
spending during vehicle charging.

Improved energy efficiency and reliability.

ENVIRONMENTAL IMPACT

Minimised carbon footprint.

Contribution to climate mitigation efforts.

Improvement in air quality and respiratory health
for all South Africans.

HUMAN RESOURCE DEVELOPMENT

Zero Carbon Charge will annually reinvest 1% of project
revenue into the community.



EV uptake

Electric car sales exceeded 17 million globally in 2024, reaching a sales share of more than 20%. Just the additional 3.5 million electric cars sold in 2024 compared with the previous year is more than the total number of electric cars sold worldwide in 2020.

GLOBAL CAR MARKET

2020: EV = 5% market share

2024: EV = 20% market share



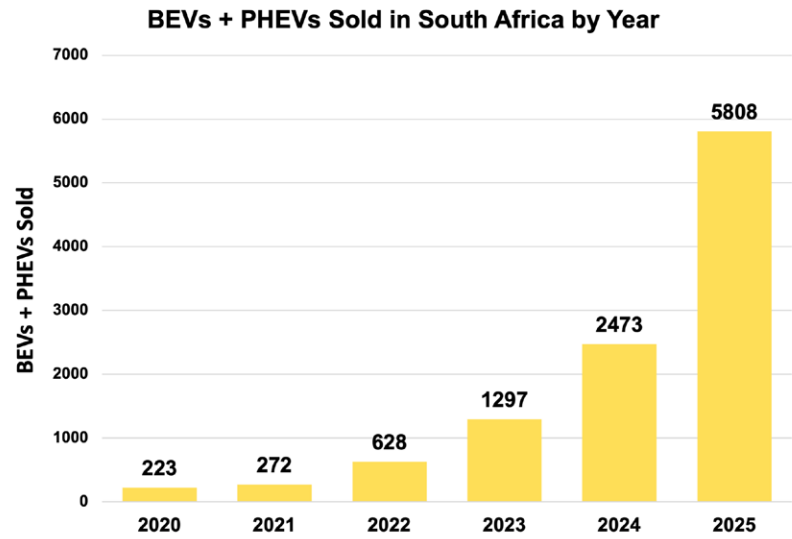
Norway's EV sales hit 96% market share in Jan 2025!

Since September 2024, EVs outnumber petrol cars in Norway.

Market Leader: BYD overtook Tesla to become the world's largest seller of electric vehicles in 2025.

2025: EVs in South Africa

BEV + PHEV sales across 21 active brands grew 135%, from 2,473 to 5,808 units.



The 2024 and 2025 figures include estimated volumes from new market entrants, based on reputable sources.

SA's BIGGEST RENEWABLE ENERGY PLAY

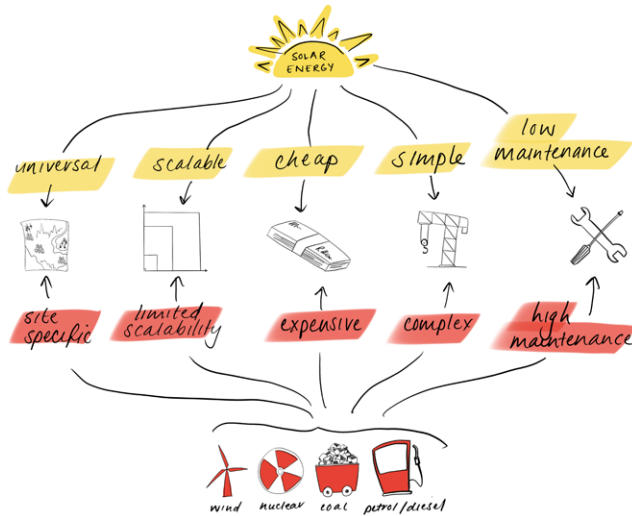
A decentralised energy generation model
that produces power directly at the point of consumption and sale
ensuring a sustainable and reliable energy supply for electric mobility in South Africa.

Empowering a cleaner, more resilient energy future.

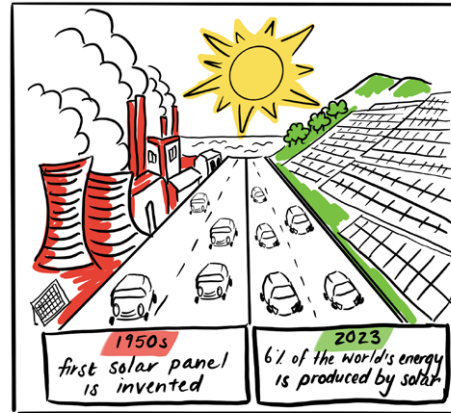


SOLAR EVOLUTION

On every aspect of energy generation
Solar is cheaper, quicker, and easier to scale
up or down than any other form of energy.

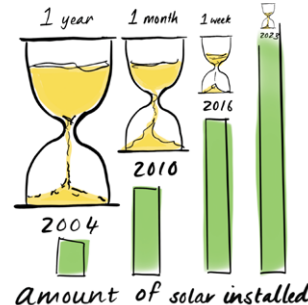


And it's catching on. Fast.



Because solar is cheaper, quicker, and easier to scale up than any other form of energy it will become the default energy source over the next two decades.

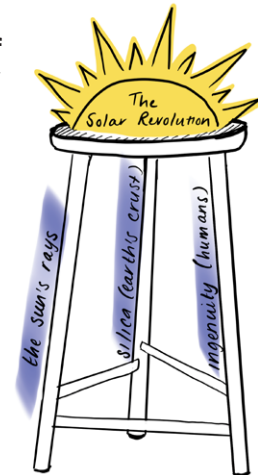
Time taken to add 1 Gigawatt peak



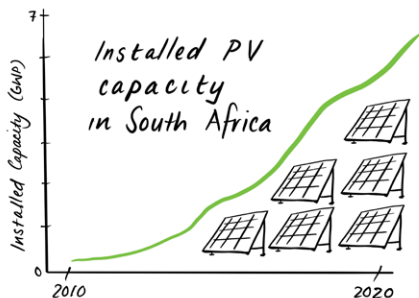
What will sustain the revolution?

Clever people using the earth's raw materials to harness the sun's energy.

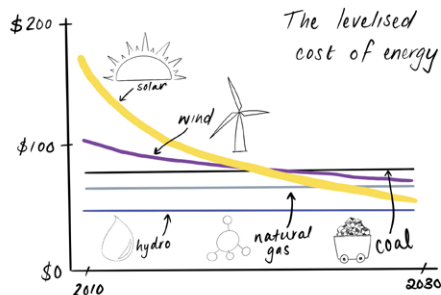
All of which we have in abundance.



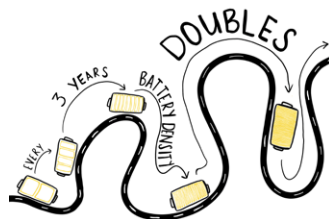
People are adopting solar faster than was initially predicted.



How does the levelised cost of solar compare per MWh?

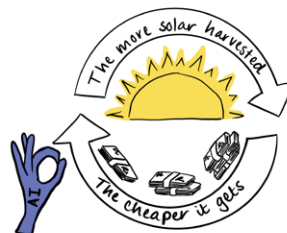


Is this sustainable?
Yes.



How cheap is battery storage?

Cheaper than you think.
And getting cheaper all the time.



The installed capacity of solar doubles every 3 years, or 10 times every 10 years.

	Solar PV	Coal	Nuclear	Hydro	Wind
2013	262 MW	36 860 MW	1 860 MW	670 MW	257 MW
2023	2 287 MW (773%)	38 800 MW (5.3%)	1 860 MW (0%)	1 600 MW (139%)	3 443 MW (1240%)
2030	5 902 MW (158%)	40 240 MW (3.7%)	1 860 MW (0%)	1 600 MW (0%)	7 911 MW (130%)

The more solar energy we harvest the cheaper it becomes.

The cheaper it becomes the more we can harvest...

Add Artificial Intelligence to the virtuous cycle and it becomes faster and even more efficient.

In the year	If you had	You could buy
1995	\$100	18 Wh of batteries
2005	\$100	150 Wh of batteries
2015	\$100	220 Wh of batteries
2024	\$100	900 Wh of batteries



READ MORE

EXPERTISE

The founders of Zero Carbon Charge have a unique perspective on electric vehicle charging as a result of having more than a decade of experience in both renewable energy developments and in various motor retail interests .

They have signed up a vast area of land all over the Northern and Western Cape and obtained the various environmental and usage rights required for both large- and small-scale wind and solar installations.

Currently they are co-owners of several fully permitted 200 MW wind farms, to be bid in Round 6 of the REIPP, partnering with ACED, a leading renewable developer ultimately owned by Old Mutual.



The motor retail interests span all the major manufacturers and are focussed predominantly on rural areas.

Conceptualising, sourcing, beneficiating, developing and funding a national network of ultra-fast chargers with their own localised renewable generation facilities and understanding the business dynamics thereof is a natural consequence of these specific experiences.



Andries Malherbe
DIRECTOR
& CO-FOUNDER

- Co-founded Zero Carbon Charge 2021
- Initiated and advised on largest secondary buyout (at that date) of a wind farm in SA in 2018
- Co-founder and co-owner of multiple bid-ready wind farms, to be bid in Round 6 of the REIPP programme
- Since 2011 large-and small-scale wind and solar developer in partnership with Joubert.
- 2007 to 2011, Co-owner of car retail businesses and property interests
- 1991 to 2006, Naspers Group, Amsterdam, Johannesburg and Cape Town
- 1988 to 1991, Bankers Trust NY, USA
- 1986 to 1988, MBA, Stanford University, Fulbright scholarship
- BCom LLB, Stellenbosch University



Joubert Roux
EXECUTIVE CHAIRMAN
& CO-FOUNDER

- Joubert Roux is a serial entrepreneur with a proven track record in transportation. Over the last 3 decades, he has built up a network of service stations and car dealerships throughout the Western and Northern Cape.
- Since 2011, Joubert has been developing wind and solar projects for the REIPP programme, in partnership with Andries.
- Joubert spent 10 formative years in the civil engineering industry with Grinaker-LTA and is experienced in the roll-out of big long-term construction projects.
- Apart from his interests in the motor industry he also has farming interests along the Olifants River. He was instrumental in working with previously disadvantaged communities in Ebenhaezer and Leliesfontein to establish micro-vineyards and boutique wineries.
- He is the founder of 1st Principles Distillery - one of the few distilleries in SA driven by solar power.

Endorsed and Supported:

We received Letters of Support from and signed MOUs with Key Stakeholders



Automotive Industry Development Centre SOC Ltd



destea

Department of
Economic, Small Business Development,
Tourism and Environmental Affairs
FREE STATE PROVINCE

ROOTED IN THE FUTURE

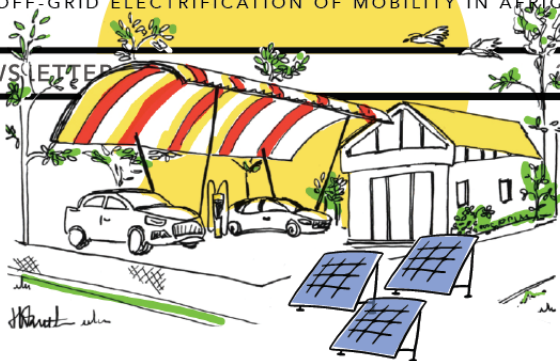


THE ZERO CARBON POST

OFF-GRID ELECTRIFICATION OF MOBILITY IN AFRICA

NEWSLETTER

2026



Move Smarter.



PARTNER
WITH US



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INVEST

Zero Carbon Charge (Pty)Ltd t/a CHARGE

Reg. No.: 2022/232376/07

Enterprise Type: Private Company

Location: South Africa

Date founded: Nov 2021

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