

# The FIRST National EV Charging Network in South Africa





Retail electricity play

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LAYER 1 = Permitted Sites

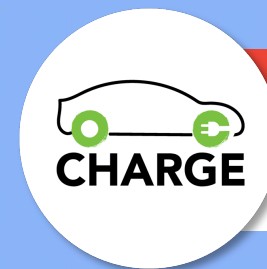
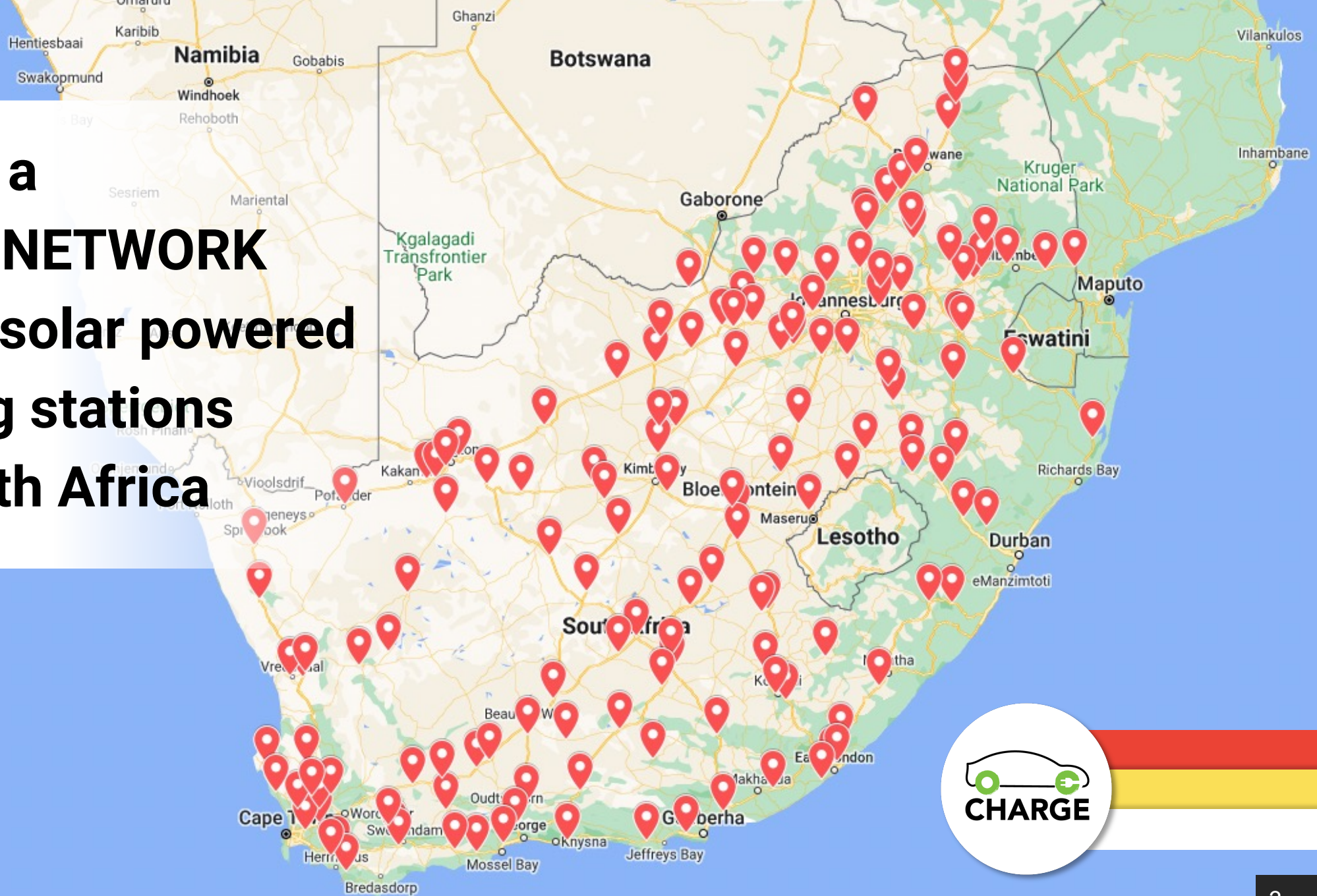
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LAYER 2 = Hardware

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LAYER 3 = Software

# Developing a NATIONAL NETWORK of off-grid, solar powered EV charging stations across South Africa



## THE INVESTMENT ASK

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**ZAR 400 million**  
***(\$4.2 million)***

**Early-Investor opportunity through investment in shares  
at a capped amount of R400 million.**

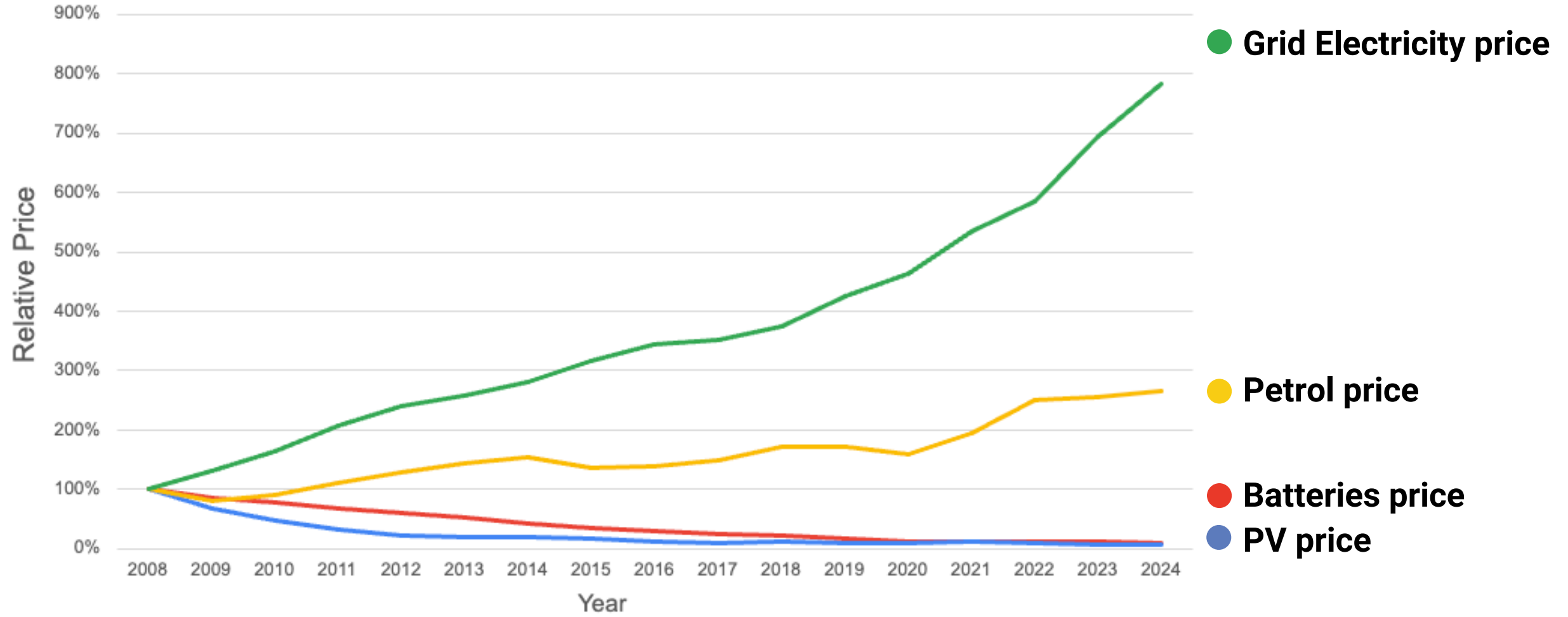
Our goal is to raise **R400 million**  
in tranches of **R100 million**  
over **4 months**

# Just like the cell phone revolution



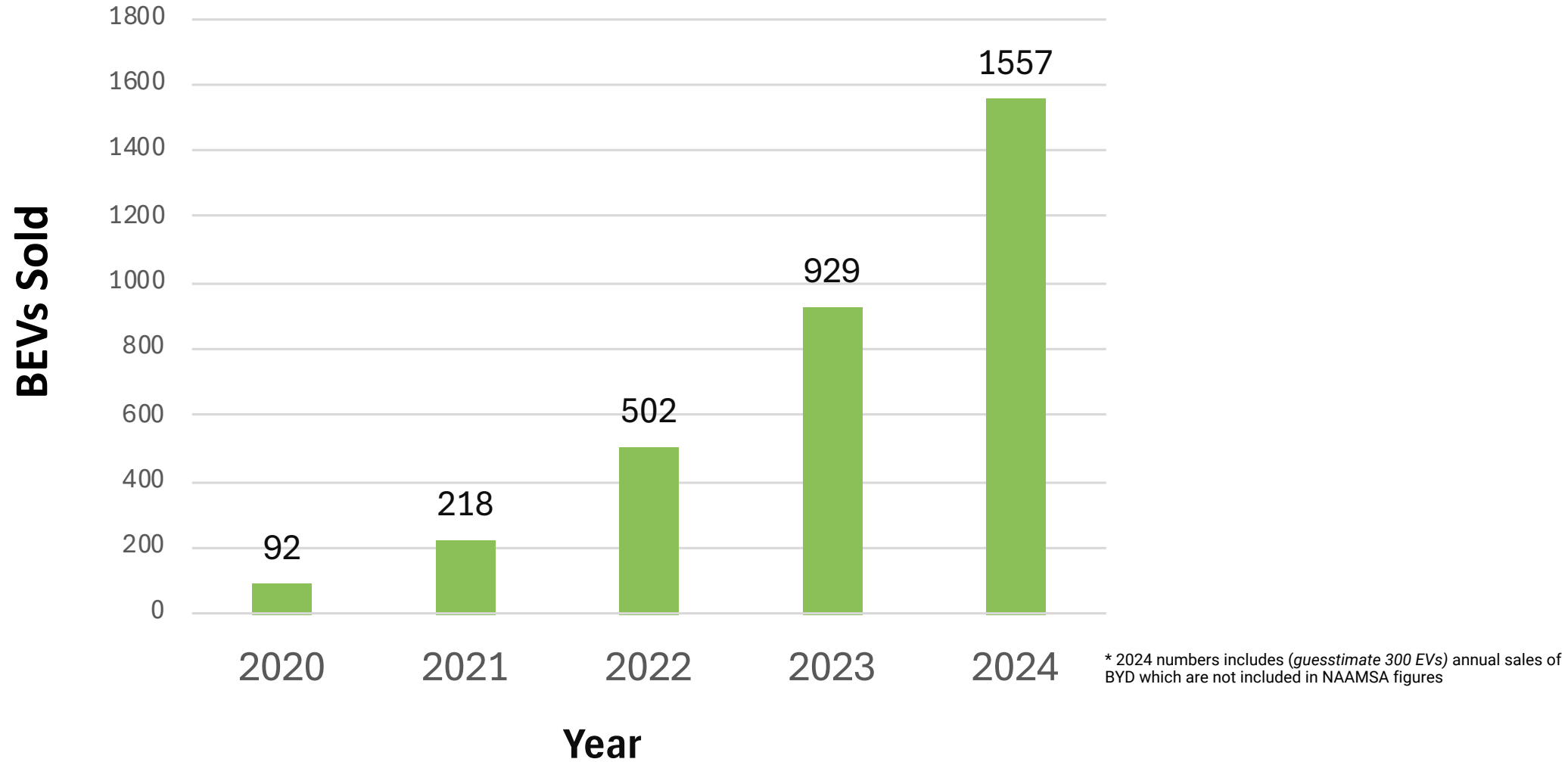
## EVs will soon be the norm

# Prices of Batteries, PV, Petrol and Grid Electricity



**THE EV REVOLUTION IS INEVITABLE**

# BEVs Sold in South Africa



**THE EV REVOLUTION IS INEVITABLE**

# THE BIGGEST RENEWABLE ENERGY PLAY OF 120 MICRO-GRIDS



# SOUTH AFRICA IS PREPARING FOR EVs



MYBROADBAND  
TRUSTED IN TECH

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MOTORING | 13.02.2025

## Good news for people who want to buy affordable electric cars in South Africa

By Hanno Labuschagne

### 24 May South Africa's electric car sales surge

Posted at 07:13h in The Bulletin by Rs8rdh7fQ

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EV REPORT

## BYD will add Sealion 7 EV to South African market this year

[Home](#) > [News Articles](#) > South Africa's Green Mobility Revolution: A Hotspot for EV Investment, Global Partnerships

2 min to read • Feb 16, 2025 7:18 PM C

## South Africa's Green Mobility Revolution: A Hotspot for EV Investment, Global Partnerships

EV's Market



**Where is  
CHARGE Today?**

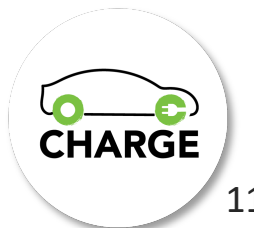
# OUR PILOT SITE: CHARGE Wolmaransstad

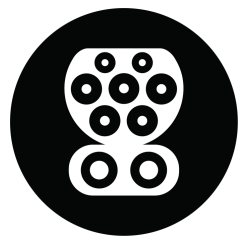
**Proof of concept that operates to specification and on budget.**



**OPEN 24 HOURS 7 DAYS A WEEK**

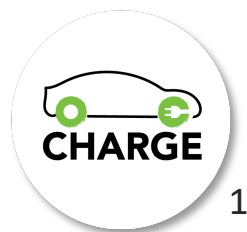
On the N12 between Klerksdorp and Wolmaransstad, at the Leeudoringstad turnoff, CHARGE Wolmaransstad is your convenient on-route charging destination for electric vehicles





## 6 DC charge points (CCS2 connectors)

This ultra-fast charging station is designed and built entirely with the needs of EV drivers in mind. **Six ultra-fast chargers** stand ready to receive passenger and commercial EVs up to 8 tons.





**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.** 13

# Our offerings at each charging location



On-site power generation system – renewable energy



Ultra-fast EV Charging Station



Farm stall, parking area and restroom facilities



## Site Layout Example:

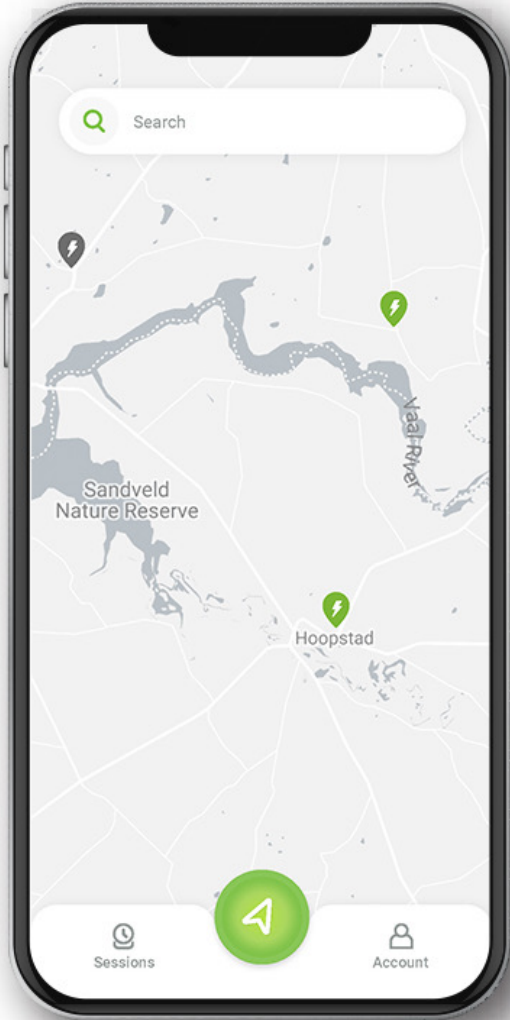
Charging station and power generation system at CHARGE Wolmaransstad



Zero Carbon Charge Farm Stall 14

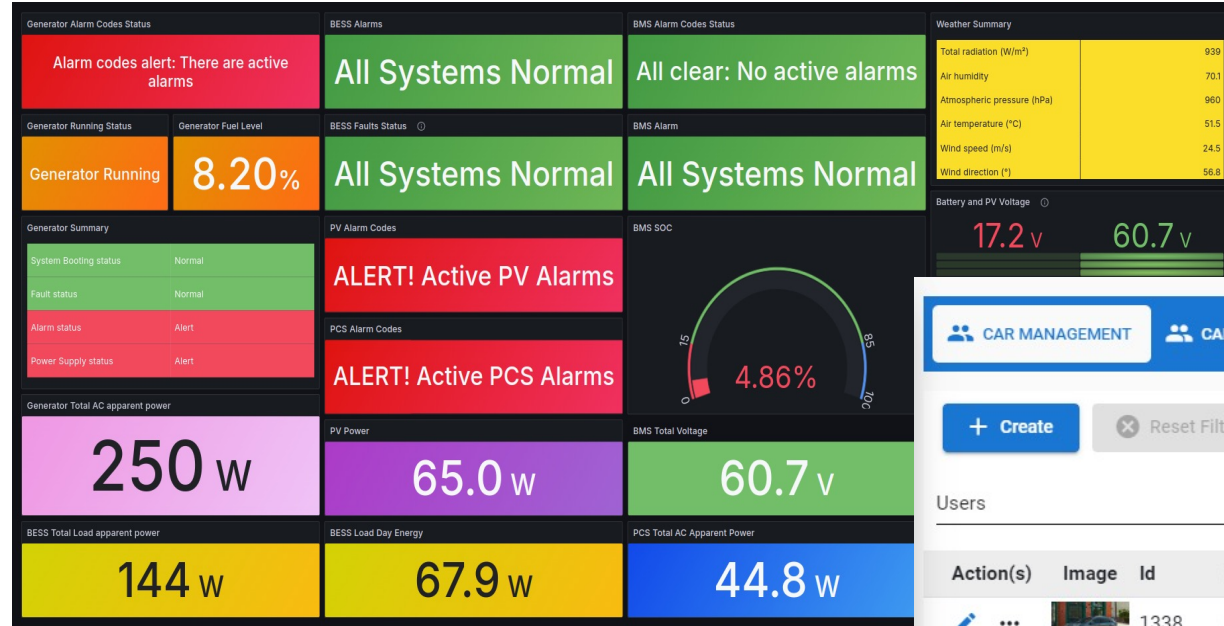
# SOFTWARE

CSMS, EMS & MOBILE APP



The CHARGE Mobile App INTERACTIVE MAP

## Energy Management System DASHBOARD



Mobile app Charging status

CAR MANAGEMENT CAR CATALOGS

+ Create Reset Filters

Users x Car Makers x Search

Action(s)	Image	Id	Maker	Model	Version	Users
		1338	Kia	e-Niro	64 kWh	Pieter BURGER
		1232	Smart	EQ forfour	-	Pieter BURGER

## CSMS

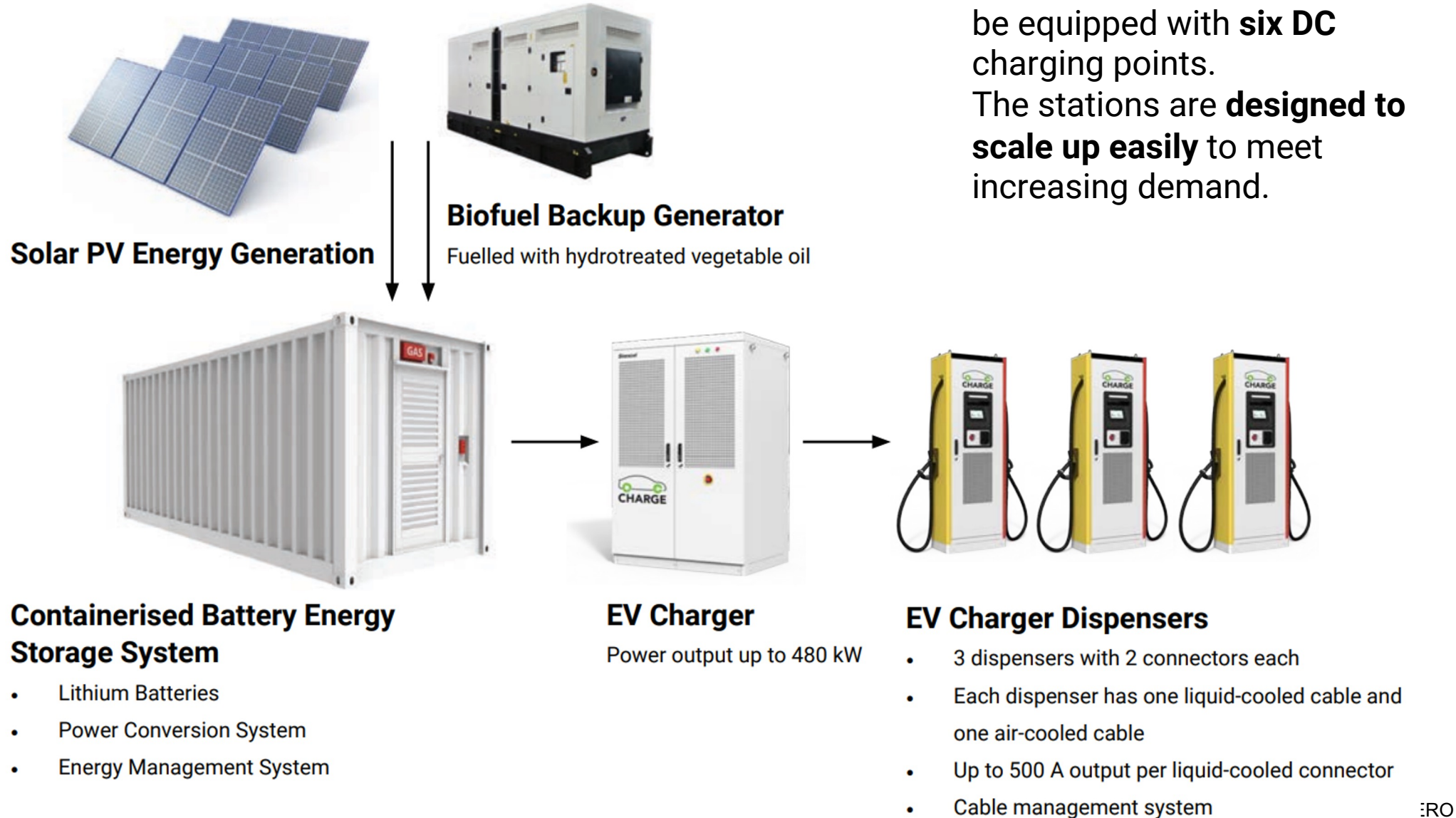
CHARGING STATIONS CHARGING PLANS IN ERROR ONBOARD NEW STATION

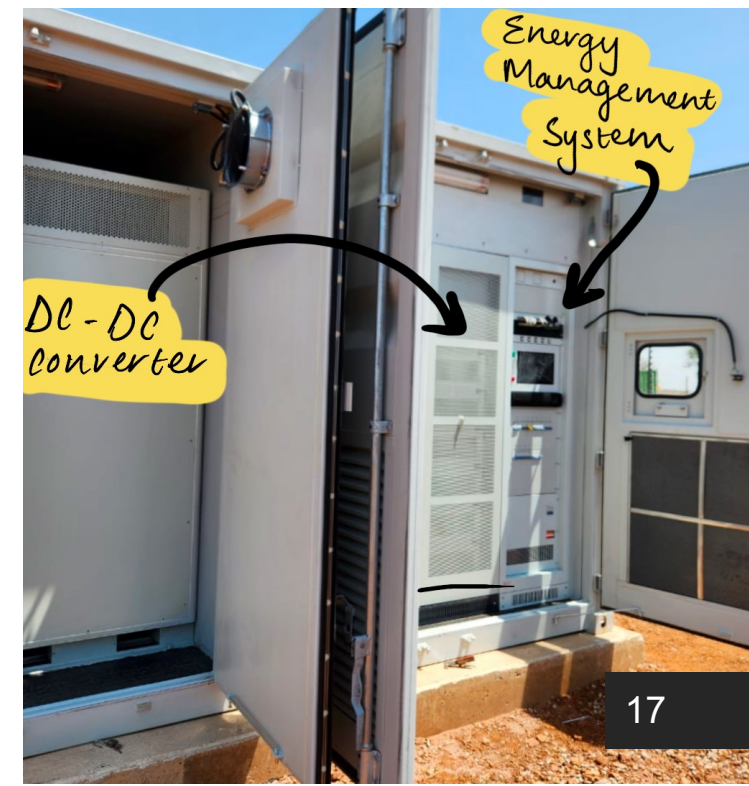
Export Reset Filters

Operating and monitoring the charging network

Action(s)	Name	Site	Site Area	Status	Con	Life	Users
	C-N012-01-01	N12 Farm Flair	DC	Disconnected		Life	Long Range Dual Motor Elmien de Wet
	C-N001-01-01	N1 Karoo Padstal	DC	Connected		Life	Elm 15
	C-R046-01-01	R46 Fynbos Padstal	AC	Connected		Life	Erma VAN DER WES

# HARDWARE SOLUTION





# CHARGE has spent years developing a customised plug and play system that decreases the roll-out cost, timing and complexity

- The primary **risk identified** was the possibility of local electricians assembling incompatible equipment, leading to operational issues.
- **Local options** were more expensive and involved combining various components, increasing the risk and compromising on quality.
- To address this, the **team travelled to China** due to the country's expertise in renewable energy and electric vehicles, seeking a custom-built, fully compatible system.
- A pre-built and pre-tested solution was chosen to ensure smooth operation, **reduce the risk** of installation errors, and enable faster deployment.
- Several manufacturers were evaluated and the best selected based on **quality and reliability**.



# Single Site Economics

## Minimum Viable Product (MVP) STRATEGY:

### Smallest viable station

To lower capital requirements and minimise project risk, we begin with building the **smallest viable station size** using a **modular design**.

### Demand-driven

Only be expanded **as and when demand warrants it.**

By this stage, a station will be highly profitable and able to **take on debt to expand.**

### Debt-Funded Growth Phase

**No further equity** raising will be needed.

**Each Initial Site** (Phase 1 MVP) will cost on average R15,1m (US\$ 800k)

**PV panels & backup generator**

**480 kW DC chargers**

**Containerised solution with:**

- Battery
- DC/DC converter
- isolation transformer
- Fire suppression system
- Energy management system



# LIMITED INVESTMENT OPPORTUNITY



**CONTACT: [invest@charge.co.za](mailto:invest@charge.co.za)**