







An initiative of:



The Electric Mobility Landscape

Thursday 9 June 2022

uYilo eMobility Programme info@uYilo.org.za www.uYilo.org.za

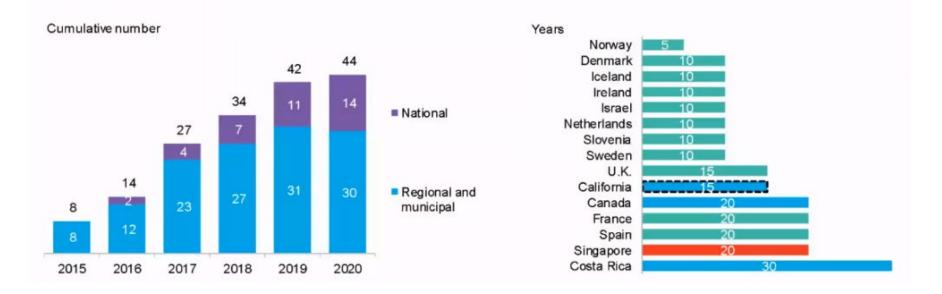




Policy Pressure is Rising - Phasing out of ICE

Number of governments that have announced plans to phase out combustion vehicle sales

Years remaining until phaseout date



Source: BloombergNEF



Local Market Declarations

Our Commitment to Green and Healthy Streets C40 Fossil-Fuel-Free Streets Declaration

We pledge to transition to Fossil-Fuel-Free Streets by:
 1) procuring, with our partners, only zero-emission buses from 2025; and
 2) ensuring a major area of our city is zero emission by 2030.

To meet this commitment, we will:

- Transform our cities through people-friendly planning policies.
- Increase the rates of walking, cycling and the use of public and shared transport that is accessible to all citizens.
- Reduce the number of polluting vehicles on our streets and transition away from vehicles powered by fossil fuels.
- Lead by example by procuring zero emission vehicles for our city fleets as quickly as possible.
- Collaborate with suppliers, fleet operators and businesses to accelerate the shift to zero emissions vehicles and reduce vehicle miles in our cities.
- Publicly report every two years on the progress the cities are making towards these goals.
- The introduction of an electric car-charging network focusing on the City of Cape Town CBD.

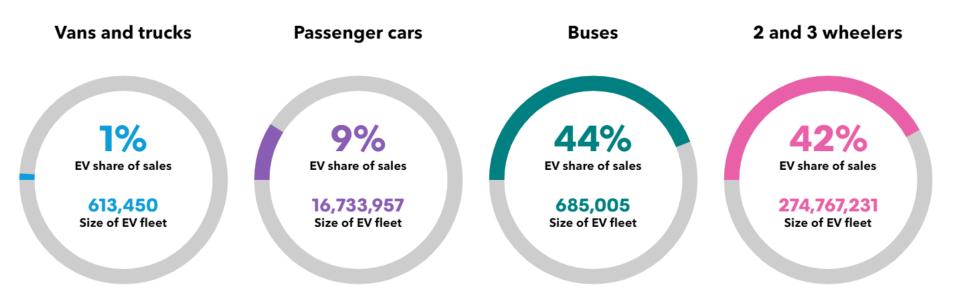


http://www.c40.org/other/fossil-fuel-free-streets-declaration



Electric Vehicle Market Segment Sales (2021)

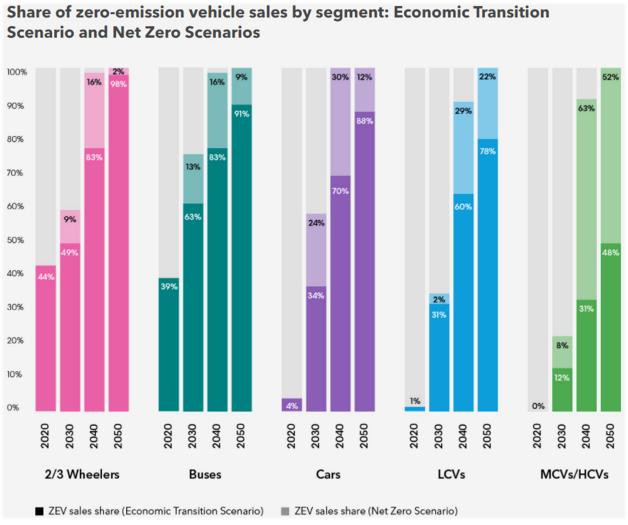
EV sales are surging due to combination of policy support, improvements in battery technology, more charging infrastructure and new compelling models from automakers.



Source: BloombergNEF



Electric Vehicle Market Segment Outlook







South Africa's EV Landscape













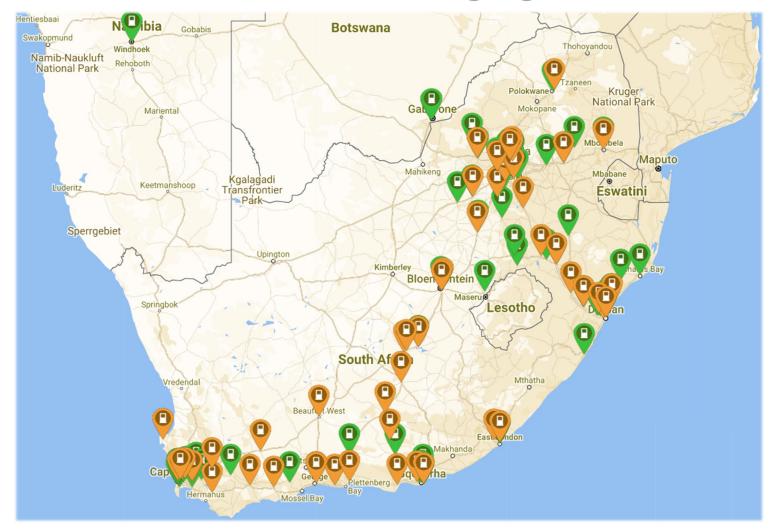








South Africa's EV Charging Network



Source: PlugShare



Charging Infrastructure Options for eBuses

Depot charging



Bergen, Norway

Source: SSE

Automated fast charging system



Zurich, Switzerland

Source: ABB

Battery Swapping

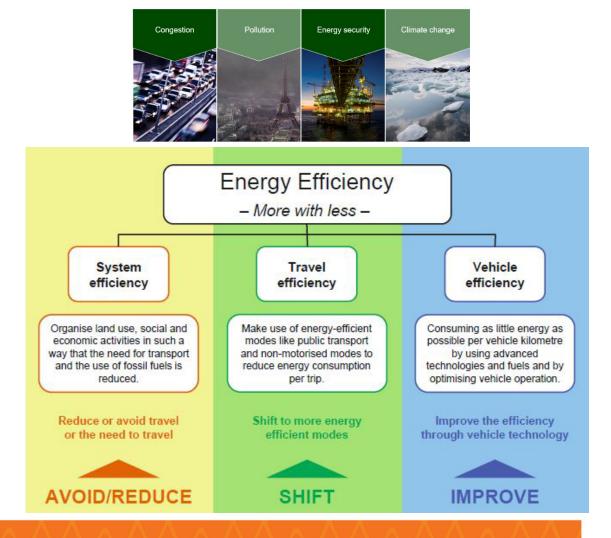
Source: Phoenix Contact



Port city of Qingdao, China



Sustainable Mobility Transitions Required





OEM Group Reference Case





We are fully committed to the Paris Agreement

SCA

Scope 1+2

Scope 3⁵ **®** SCANIA

-50%

t CO₂e (2025 vs. 2015)¹

Well to wheel

-20%

g CO₂e/vkm (2025 vs. 2015)¹ MAN

-70% t CO₂e (2030 vs. 2019)¹

7

-28% g CO₂e/vkm

(2030 vs. 2019)1

Well to wheel



Caminhões Ônibus

-28/-19%

Electricity/Gas usage (2022 vs. 2018)²



NAVISTAR

-20%

Energy intensity improvement (2030 vs. 2018)³

Tank to wheel

-24/-25%

g CO₂e/ton-mile (2027 vs. 2017)⁴



All our brands have validated science-based targets or are in the process on obtaining those

1 Science based approved target 2 Company specific target - energy efficiency targets with regards to electricity and natural gas usage at the Resende manufacturing plant 3 Company specific target - energy intensity is an energy efficiency metric modeled by the USDOE using its Energy Performance Indicator model at four US facilities 4 Regulatory target - based on EPA Phase 2 GHG emission reduction targets for tractor combinations (-25%) and for vocational vehicles (-24%) - reduction targets are industry targets and exact reduction need per OEM will depend on sold vehicle mix 5 Downstream

TRATON

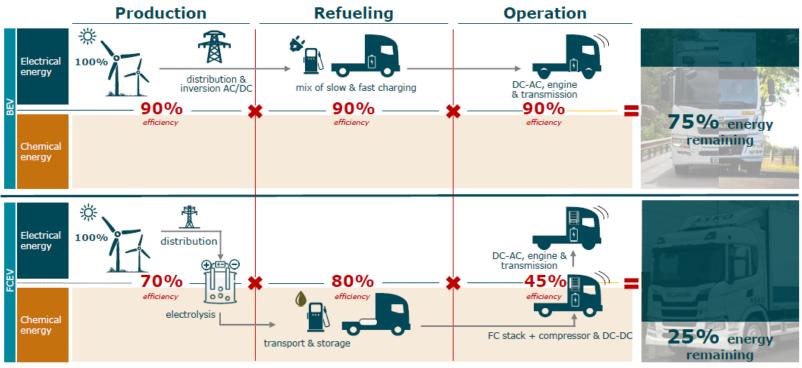
Source: TRATON



OEM Group Reference Case



Our strategic focus is underlined by a comparison of system efficiency between BEV and FEV



TRATON

Source: TRATON



OEM Group Reference Case

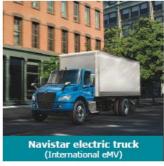


All TRATON brands with BEV products across major applications and weight classes

















TRATON

Source: TRATON



Let's not forget the important role Buses play



70 People in Bus Vs Car

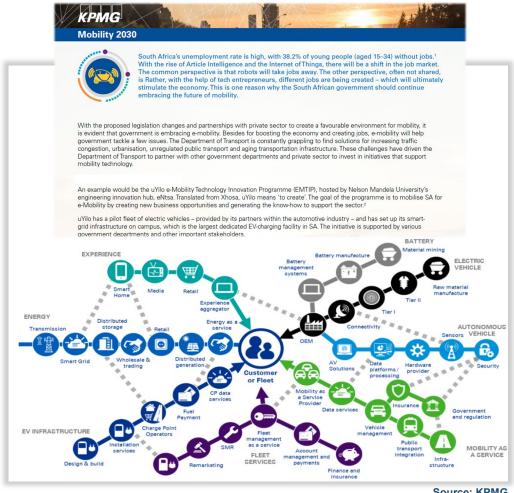


Key frameworks towards adoption of eMobility

- Development of adequate policy packages
 - Regulations
 - Taxes
 - Subsidies (Financial and non-financial considerations)
- Establishment of localised pilot projects
- Strategies to **finance** the **transformation** towards electric mobility
- Technology localisation and industrialisation initiatives
- Skills Development



Unlocking the Mobility 2030 Value Chain in South Africa



Source: KPMG



uYilo Electric Mobility EcoSystem









uYilo Representations





































Founding Member



WWW.GSMP.WORLD

Driving zero emission mobility solutions for all





Corporate Office (Johannesburg):

Regus Business Centre Randburg | 1st Floor | 292 Surrey Avenue | Randburg | Johannesburg

(): +27 10 005 5346

info@uYilo.org.za

(B): +27 41 504 3900

www.uYilo.org.za

Get connected with us on f















