

● THE EV PRIVATE SECTOR
EXPERIENCE IN KENYA
CHARGING & BATTERY SWAPPING

A 2022 SURVEY BY AEMDA

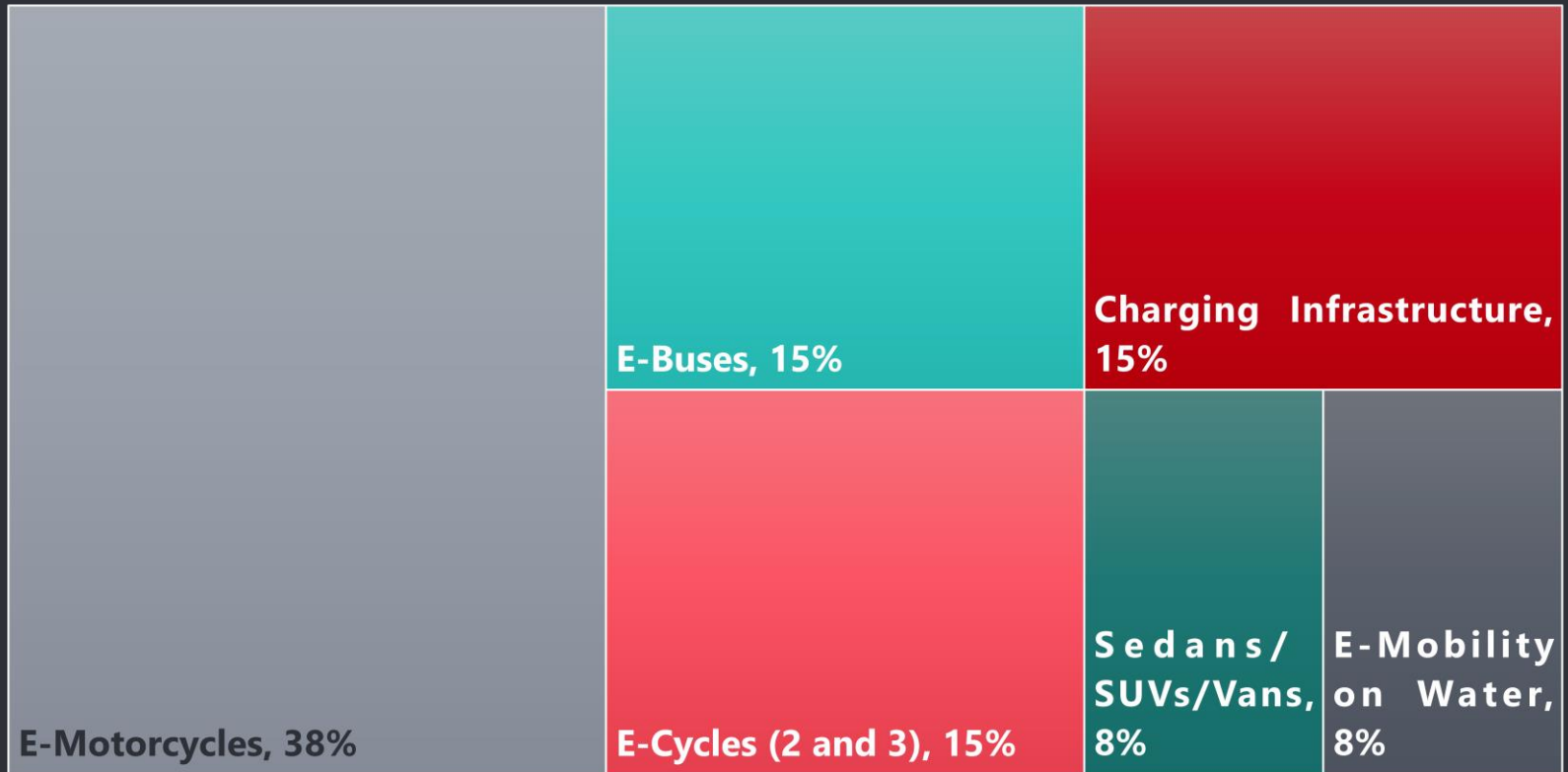


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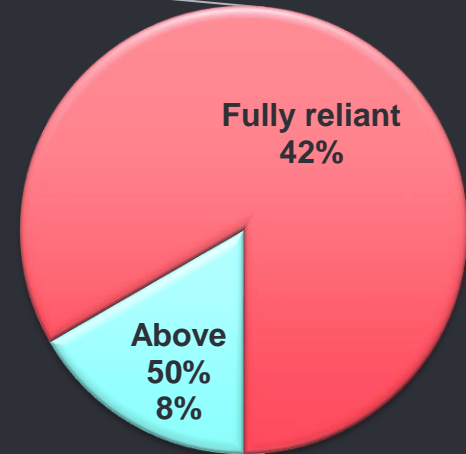
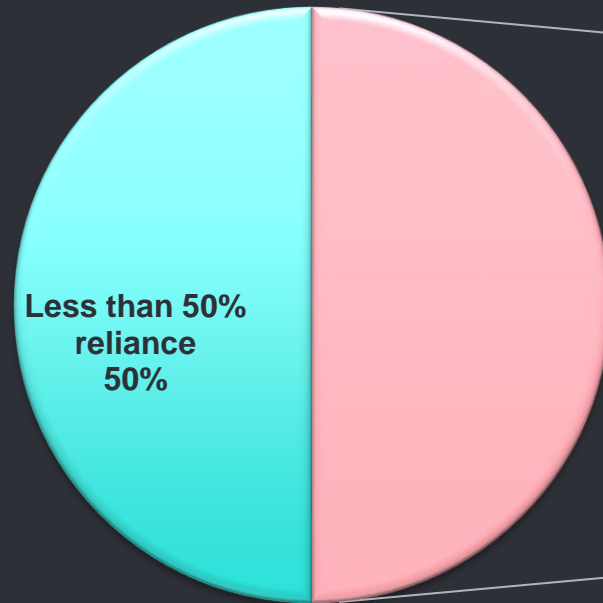
COMPANY SPECIALTY

Understand service providers in Kenya

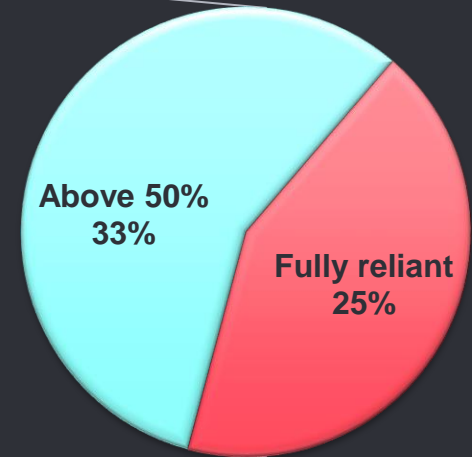
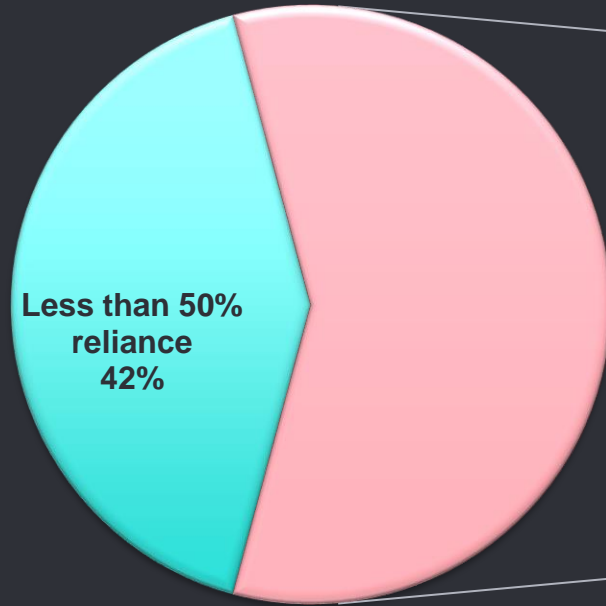
E-MOBILITY SERVICE PROVIDERS IN KENYA



● RELIANCE ON CHARGING



● RELIANCE ON BATTERY SWAPPING

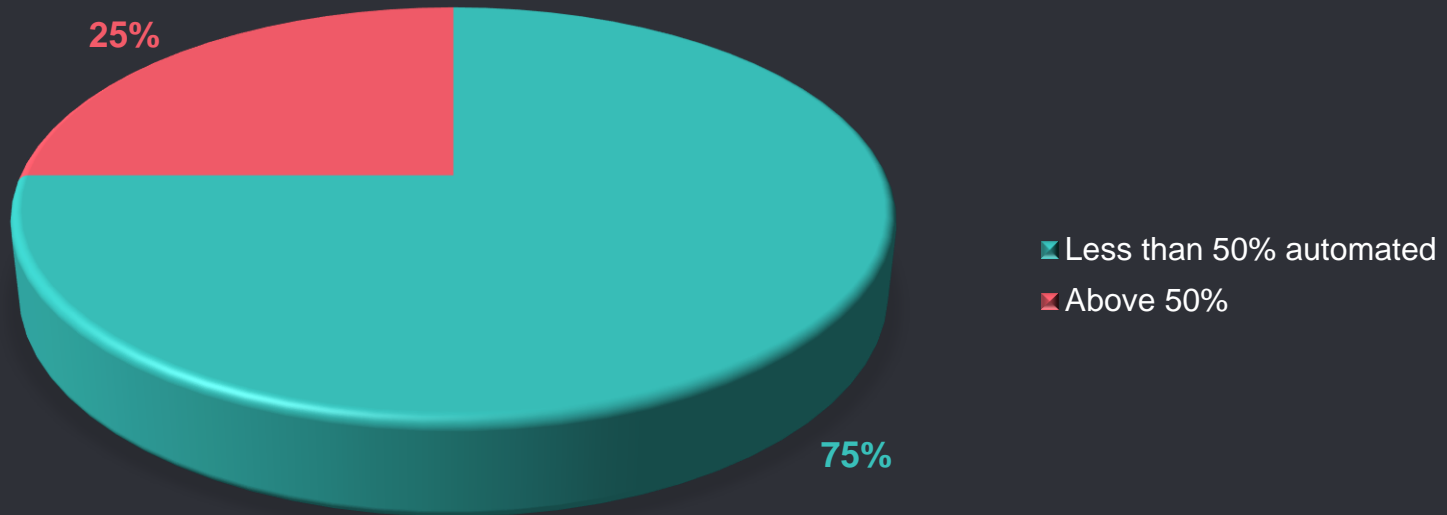


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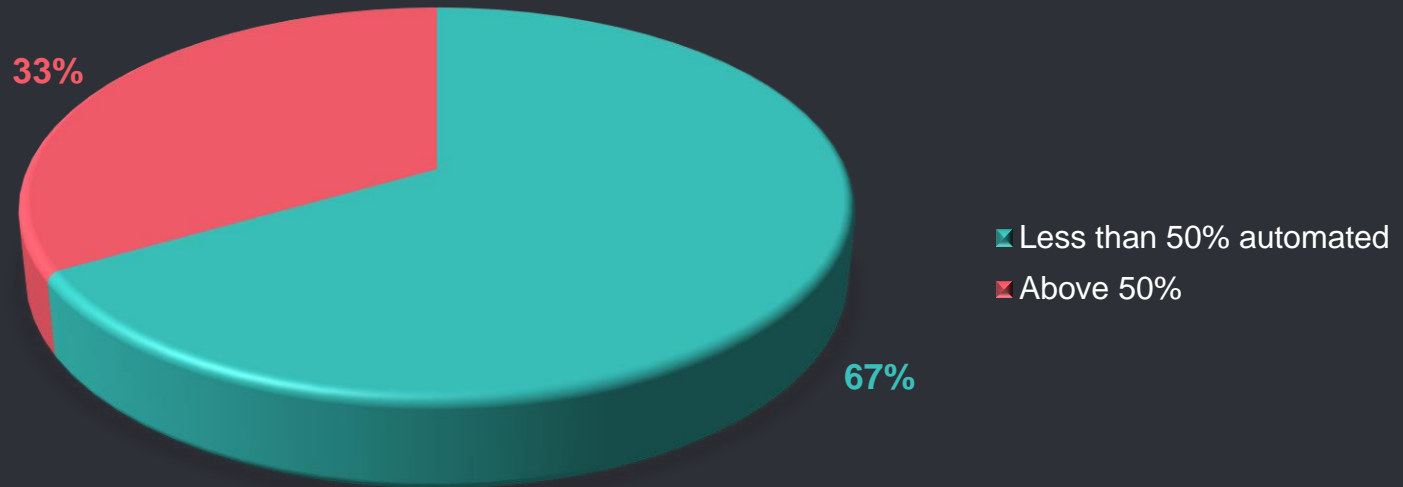
AUTOMATION & ASSEMBLY

Understand nature of services and local competence

● LEVEL OF AUTOMATION OF CHARGING EQUIPMENT

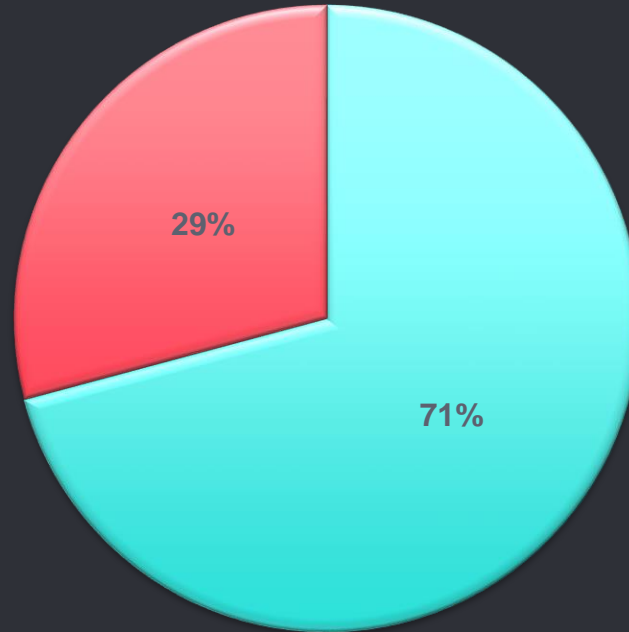


● LEVEL OF AUTOMATION OF BATTERY SWAPPING EQUIPMENT



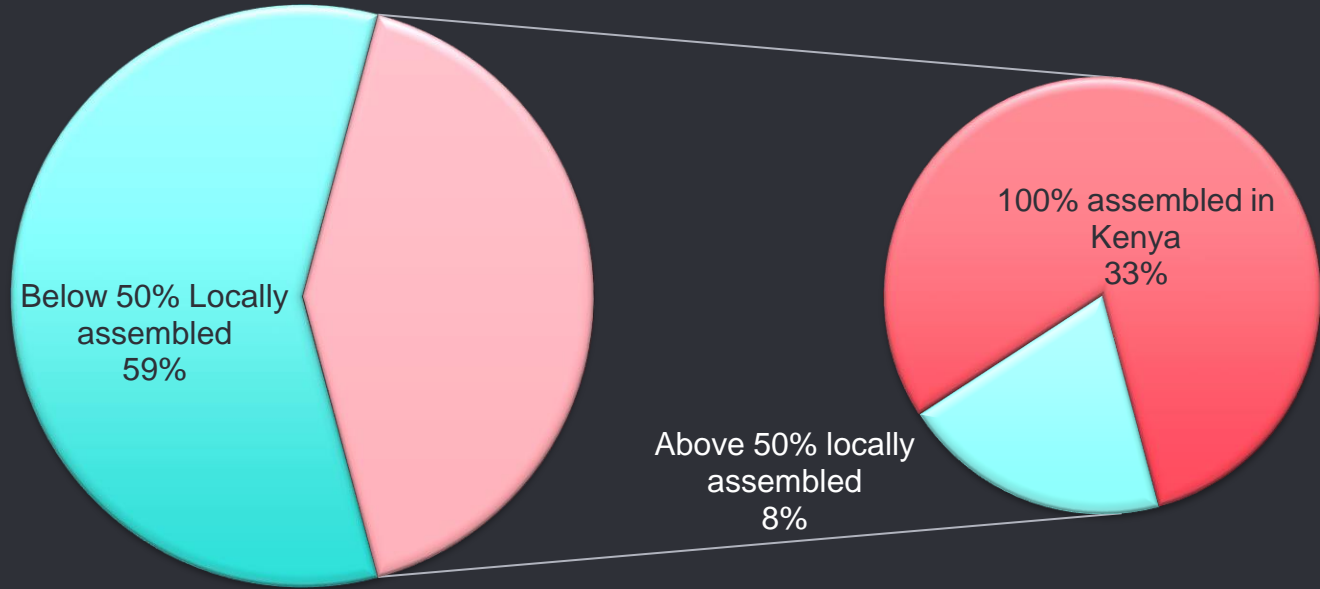
AVERAGE LEVEL OF AUTOMATION

ACROSS CHARGING AND BATTERY SWAPPING

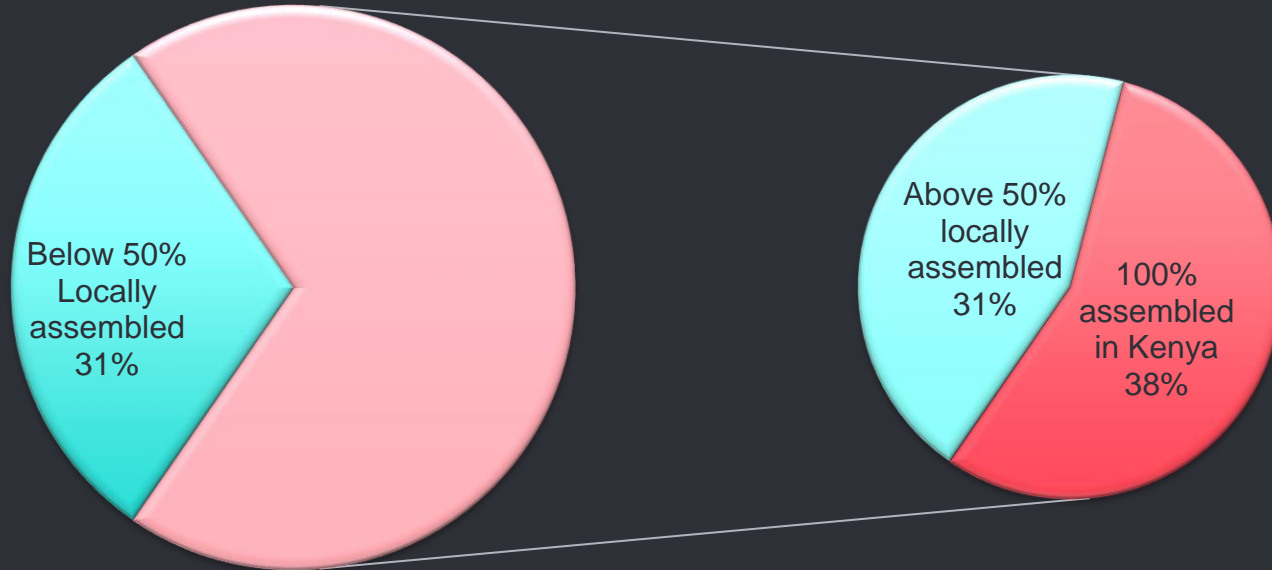


■ Less than 50% automated ■ Above 50%

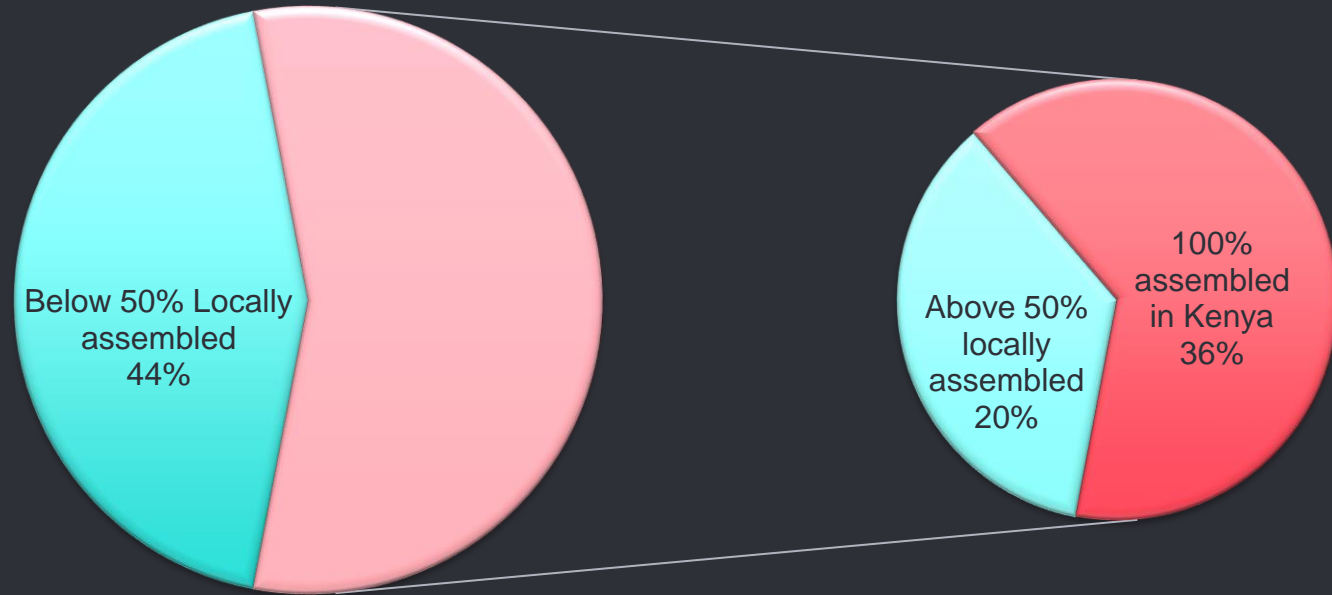
LEVEL OF LOCAL ASSEMBLY OF CHARGING EQUIPMENT



LEVEL OF LOCAL ASSEMBLY OF BATTERY SWAPPING EQUIPMENT



AVERAGE LEVEL OF LOCAL ASSEMBLY ACROSS CHARGING AND BATTERY SWAPPING



3

TECHNICAL HURDLES

Setting up, running and maintaining infrastructure

● HIGHLIGHTS OF TECHNICAL HURDLES

**SITE SELECTION &
INSTALLATION**

Found it moderately
challenging

33%

**MAINTENANCE & SAFETY OF
INFRASTRUCTURE**

Found it moderately or
severely challenging

25%

**QUALITY OF LOCALLY
SOURCED PARTS**

Found it moderately or
severely challenging

42%

ELECTRICITY STABILITY

Found it moderately or
severely challenging

33%

4

REGULATORY HURDLES

Importation, registration, fiscal incentives

- HIGHLIGHTS OF REGULATORY HURDLES

TAXATION

Found it moderately
or severely challenging

92%

ACCESS TO INCENTIVES

Found it moderately or
severely challenging

83%

IMPORTING SPARES

Found it moderately or
severely challenging

67%

ELECTRICITY TARIFF

Found it moderately or
severely challenging

75%

● HIGHLIGHTS OF HR AND CONSUMER HURDLES

MARKET AWARENESS ON
THEIR TECHNOLOGY

Found it moderately
or severely challenging

75%

MEETING CUSTOMER
CHARGING REQUIREMENTS

Found it moderately or
severely challenging

67%

AVAILABLE TRAINED
PERSONNEL

Found it moderately or
severely challenging

42%

GETTING FEMALE
TECHNICAL STAFF

Found it moderately or
severely challenging

50%

TECHNICAL RECOMMENDATIONS

Recommendation	Responsible	Duration
Streamlined permitting process for infrastructure set up	Local Authorities, EPRA, KPLC	Short Term
Identify gaps in local spares availability and quality	Industry players, Association, dev. partners	Short Term
Basic standards of installation, safety, quality for CPOs, CSOs, Fleets	KEBS	Medium Term

REGULATORY RECOMMENDATIONS

Recommendation	Responsible	Duration
Tax exemptions on importation of EVs, batteries and charging infrastructure equipment for 5 years	Industry, Treasury, KRA	Short Term
Zero rating VAT on charging and battery swapping services for 5-10 years	Industry, Treasury, KRA	Medium Term
Competitive Electricity tariff for EV and battery charging	Local Authorities, EPRA, KPLC	Medium Term

HR & CONSUMER RECOMMENDATIONS

Recommendation	Responsible	Duration
Introduce industry-aligned short courses + companies to provide internship programs	Industry players, Association, dev. Partners, NITA	Short Term
Awareness campaigns for EV products and services to general public	Industry players, Associations, dev. Partners, Government agencies	Short Term
Awareness campaigns to women in STEM courses	KEBS	Short Term



MEET AEMDA

- The Association for Electric Mobility and Development in Africa (AEMDA)
- A pan African platform for electric mobility industry stakeholders
- Promotes conversation and action for increased market adoption

WELCOME TO 1st TECHNICAL WORKING GROUP MEETING of 2022

Date: 20th April 2022

Venue: Strathmore University



THEME: EV Charging Infrastructure Frameworks & Incentives

Topics: Setting up infrastructure, Electricity tariff, Frameworks for non-fiscal incentives for Evs

Target Audience: Private Sector, Government ministries and departments, local and regional authorities



1,000,000

Electric Vehicles locally assembled in Africa by 2030

Learn more at [AEMDA.ORG](https://www.aemda.org)