

Open for Climate Justice: A Brief Overview of Digital Library on Green Mobility (DLGM)

Anup Kumar Das

Jawaharlal Nehru University, New Delhi

<http://anupkumardas.blogspot.com>

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#OpenforClimateJustice

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Open for Climate Justice: A Brief Overview of Digital Library on Green Mobility (DLGM)

Dr. Anup Kumar Das
Documentation Officer
Centre for Studies in Science Policy, JNU



26-10-2022

3:00 PM

 International
Open Access Week

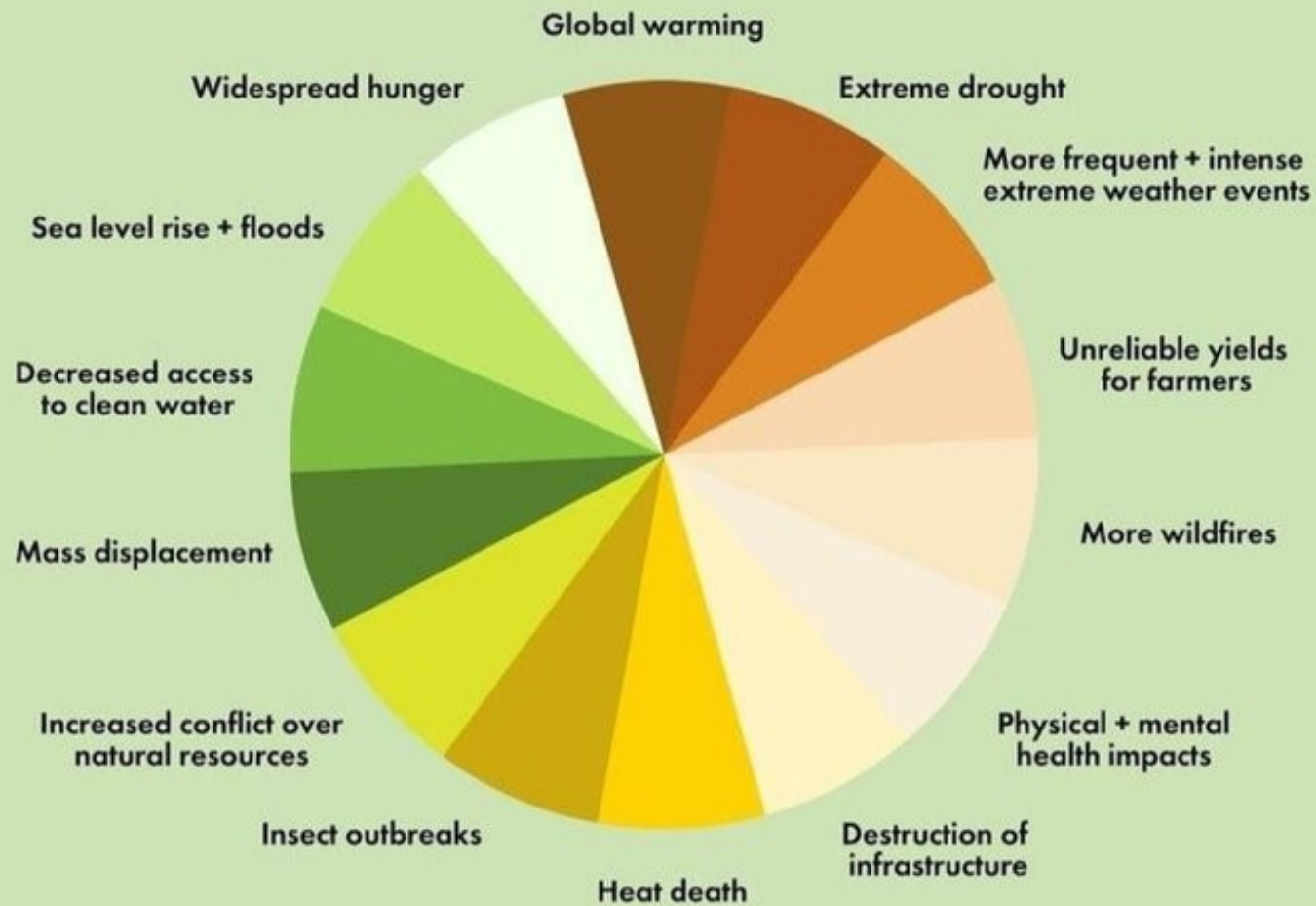
OCTOBER 24-30, 2022

Department of Library and Information Science
Central University of Tamil Nadu

#OpenForClimateJustice



What climate change really means:



COP27: Egypt, 6-18 November 2022



E-Mobility in India at a Glance

- India stands at the cusp of a ground-breaking revolution in Electric Mobility:
 - 7,60,000 Electric Vehicles have been registered till today
 - **25+** States have notified or drafted state Electric Vehicle policies
 - 380 Electric Vehicle manufacturers operate in India
 - **2500+** Electric Vehicle Charging Stations have already been installed
 - 2700 Kilotonnes of carbon dioxide emissions have been reduced
 - **133%** Growth occurred in Electric Vehicle sales from FY15 to FY20
 - 1.32% Of all vehicle sales in FY21-22 were electric.
- Source: <https://e-amrit.niti.gov.in>

Explore the World of Digital Knowledge



International review on
**Recycling Ecosystem
of Electric Vehicle
Batteries**

Electric vehicle charging
infrastructure and its grid
integration in India: status
quo, critical analysis and
way forward



- **Digital Library on Green Mobility:** <https://greenmobility-library.org>
 - Launched on 2nd November 2020.
- Promotes Low Carbon Transport, especially Electric Mobility, in India.

- DLGM Portal is designed and developed by TERI (The Energy and Resources Institute), New Delhi, in collaboration with the Nationally Determined Contribution-Transport Initiative for Asia (NDC-TIA) programme, funded by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) under its International Climate Initiative (IKI) framework.
- DLGM aims to provide a platform for sharing ideas, knowledge, and draft documents among the different stakeholders of various organisations and institutions from India and abroad involved in Low Carbon Transport in India.

EXPLORE and SHARE

Knowledge Hub | Media
Linkages | Events | Glossary



- The DLGM Portal aims at educating the researchers, academicians, citizens and businesses with access to information such as policy instruments, reports, articles, books, standards, case study, etc.
- DLGM caters to diverse set of stakeholders such as government ministries, departments and agencies, Civil Society Organizations (CSOs), academia, citizens, research community, industry, businesses houses, consultants, etc.

The banner features a white header with logos for 'Digital Library on Green Mobility', 'giz' (German company), 'Federal Ministry for the Environment, Nature Conservation and Nuclear Safety', and 'teri' (The Energy and Resources Institute). Below the header is a green bar with white text explaining the importance of green mobility. The main content is on a white background with a teal box on the left and an orange box on the right, both containing text about the library's purpose and user base.

DLGM: Window to Sustainable Transportation
<https://greenmobility-library.org/>

Facilitates access to knowledge on low carbon transport in India

Caters to diverse set of stakeholders such as government agencies, civil society organizations, academia, citizens, research community, industry, businesses houses, consultants, and others



Share Your Content

- Books
- Case Study
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- Opinions/Videos
- Policies/Regulations
- Reports
- Research Papers/Articles
- Standards
- Technologies
- Thesis & Dissertations
- Training Materials

Digital Knowledge

Home / Knowledge

Knowledge Hub

Sort Results

Sort By

Year

Narrow Your Search

Research Papers/Articles

A Brief Overview of Recently Launched Digital Libraries of India

📅 2022

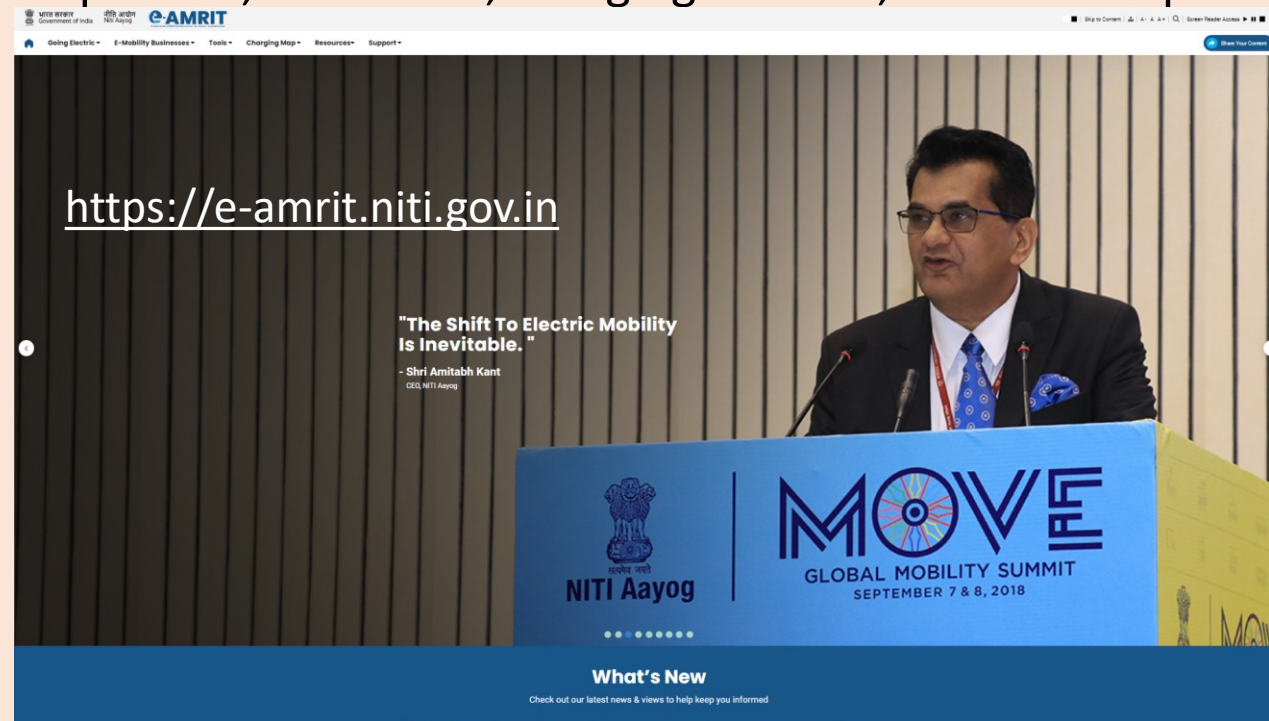
👤 Author(s): Anup Kumar Das

Purpose: This paper evaluates the different digital libraries (DLs) in India developed in the past few decades. These DLs help advance scholarship and facilitate the reading habits of their users...

Published

Read More

- Related Portal: **‘E-Amrit’, an Electric Vehicle Awareness Web Portal**, launched by NITI Aayog on 10 November 2021 at the COP26 Summit (The UN Climate Change Conference in Glasgow).
- <https://e-amrit.niti.gov.in>
- It stands for “Accelerating e-Mobility Revolution for India’s Transportation”
- A one-stop destination for all information on electric vehicles - busting myths around the adoption of EVs, their purchase, investment opportunities, policies, etc.
- By providing the users with access to information, eAmrit assists users in their journey to own an electric vehicle or set up their own electric vehicle or associated enterprise.
- The portal aims to ease the transition from fossil fuel driven vehicles to electric vehicles by providing all information about policies, incentives, charging stations, business requirements.

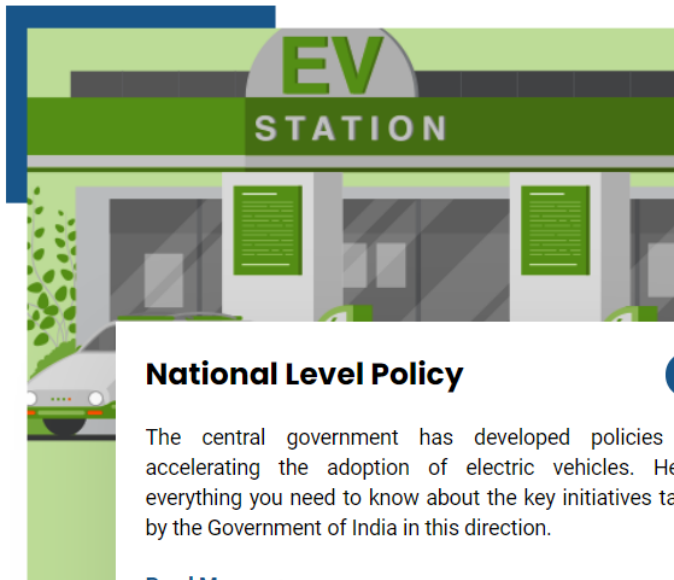


RESOURCES

Discover a collection of knowledge repository of all you might need

- National level Policy
- State level Policies
- Electricity Cost for charging
- Standards and Specifications
- Reports and Articles
- Media
- Useful Links
- Skill Centre
- International Best Practices on Policies
- Template for State Level EV Awareness portal

enabling ecosystem for electric mobility along with market updates.



National Level Policy



The central government has developed policies for accelerating the adoption of electric vehicles. Here's everything you need to know about the key initiatives taken by the Government of India in this direction.

[Read More](#) →



State Level Policies



Most Indian states have devised their own policies and offer additional subsidies on top of central government subsidies to promote the adoption of electric mobility. Here's all you need to know about measures taken by the state governments.

[Read More](#) →

STATE LEVEL POLICIES

Select States

Tamil Nadu ▾

Karnataka ▾

West Bengal ▾

Overview ▾

Overview

<https://e-amrit.niti.gov.in/state-level-policies>

NODAL AGENCY

Industries Department, Government of
Tamil Nadu

Commerce and Industries,
Government of Karnataka

Power Department, Government of
West Bengal

State EV Policy

 [Electric vehicle Policy](#)

 [Electric vehicle Policy](#)

 [Electric vehicle Policy](#)

Years of Release

2019

2017

2021

Targets

Our journey towards zero pollution starts here

#ShoonyaKaSafar

<https://shoonya.info/>

The "Shoonya — Zero-Pollution Mobility" campaign has three major components:

1. Corporate Branding Programme
2. Consumer Awareness Drive
3. Resource Toolkit



The Shoonya campaign aims to improve air quality in India by accelerating the deployment of electric vehicles (EVs) for ride hailing and deliveries.

Toolkit

<https://shoonya.info/Toolkit>



EV Calculator

Measure how the adoption of an EV will lead to incurred cost and emissions savings



Financing Resources

Learn about available EV lending opportunities



Impact Dashboard

Understand the impact of the Shoonya campaign so far



Vehicle Directory

See how Shoonya partners can equip you with an EV that meets your driving needs



Policy Map

Learn about national and state EV policies and purchase subsidies



Shoonya
Zero Pollution
Mobility

[Home](#)
[About Us](#)
[Why Shoonya?](#)
[Partners](#)

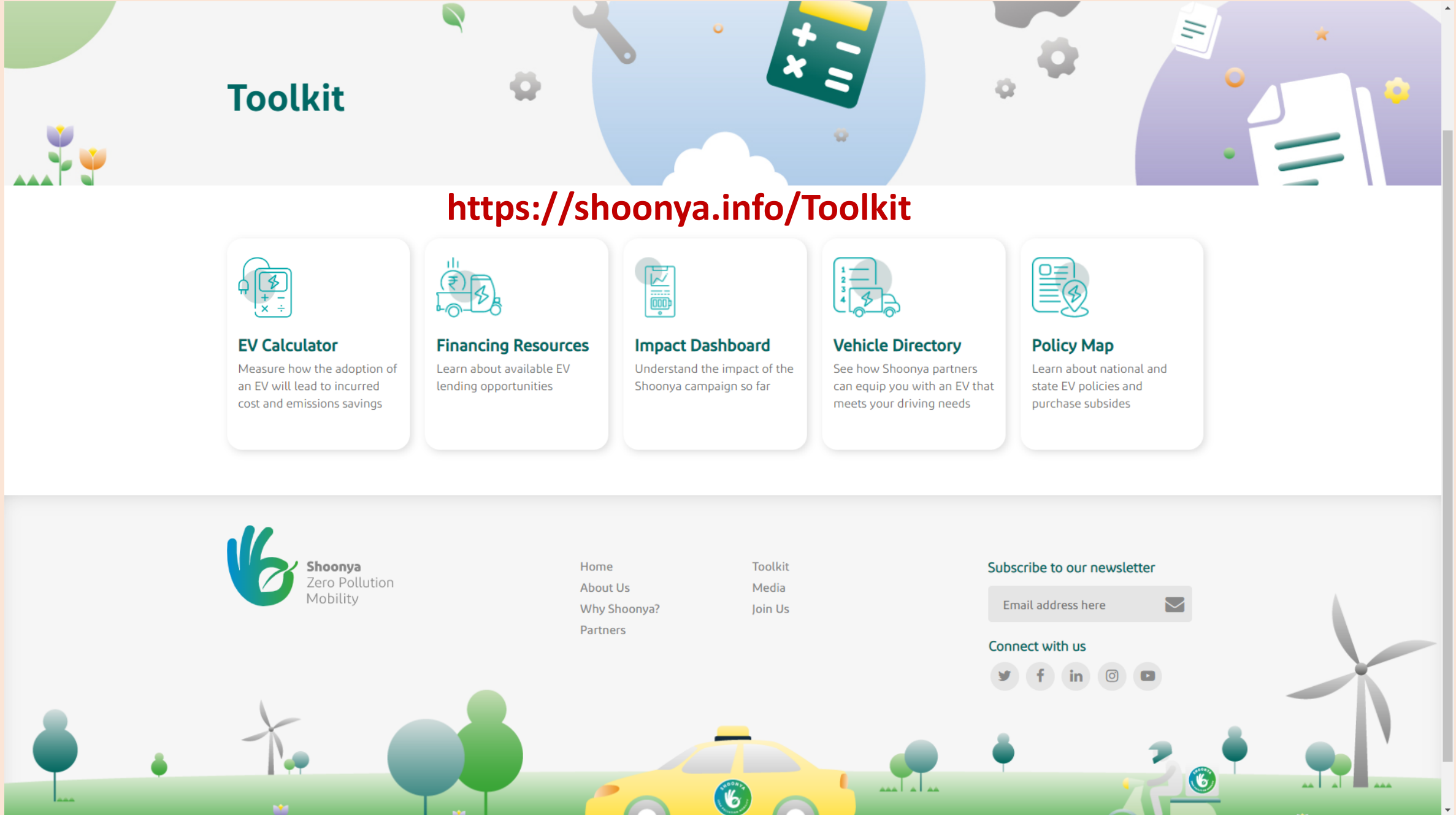
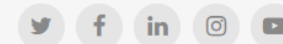
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EV Urjaa

Your Drive Partner



In April 2019, **Niti Aayog**, the federal think tank, published a report titled “**India’s Electric Mobility Transformation**”, which pegs EV sales penetration in India at **80%** for two and three-wheelers by **2030**.



SHRI PARAMESHWARAN IYER

CEO, NITI Aayog

Green mobility is going to play a major role in India's decarbonising goals. The Shoonya campaign has the potential to ensure participation from across sectors, for a common goal - *protecting our environment.*





Shoonya
Zero Pollution
Delivery.



SHRI AMITABH KANT

G20 Sherpa, Government of India

The success of the Shoonya campaign further drives in the belief that green mobility revolution is knocking on our doors. Future of Mobility is all set to usher in a world that is shared and connected through electric mobility.



#ShoonyaTurnsOne



IndianOil

Electrifying

the Indian EV movement

2500+ EV Charging Stations!



Celebrating The World EV Day

9th September



Indian Army Goes Green!


To induct Electric Vehicles In Ground
Transport Fleet

This will replace

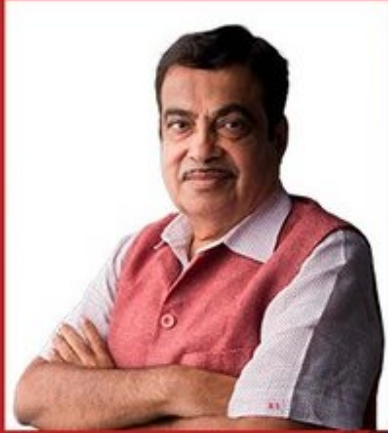
38%
of
Buses

25%
of Light
Vehicles

48%
of
Motorcycles

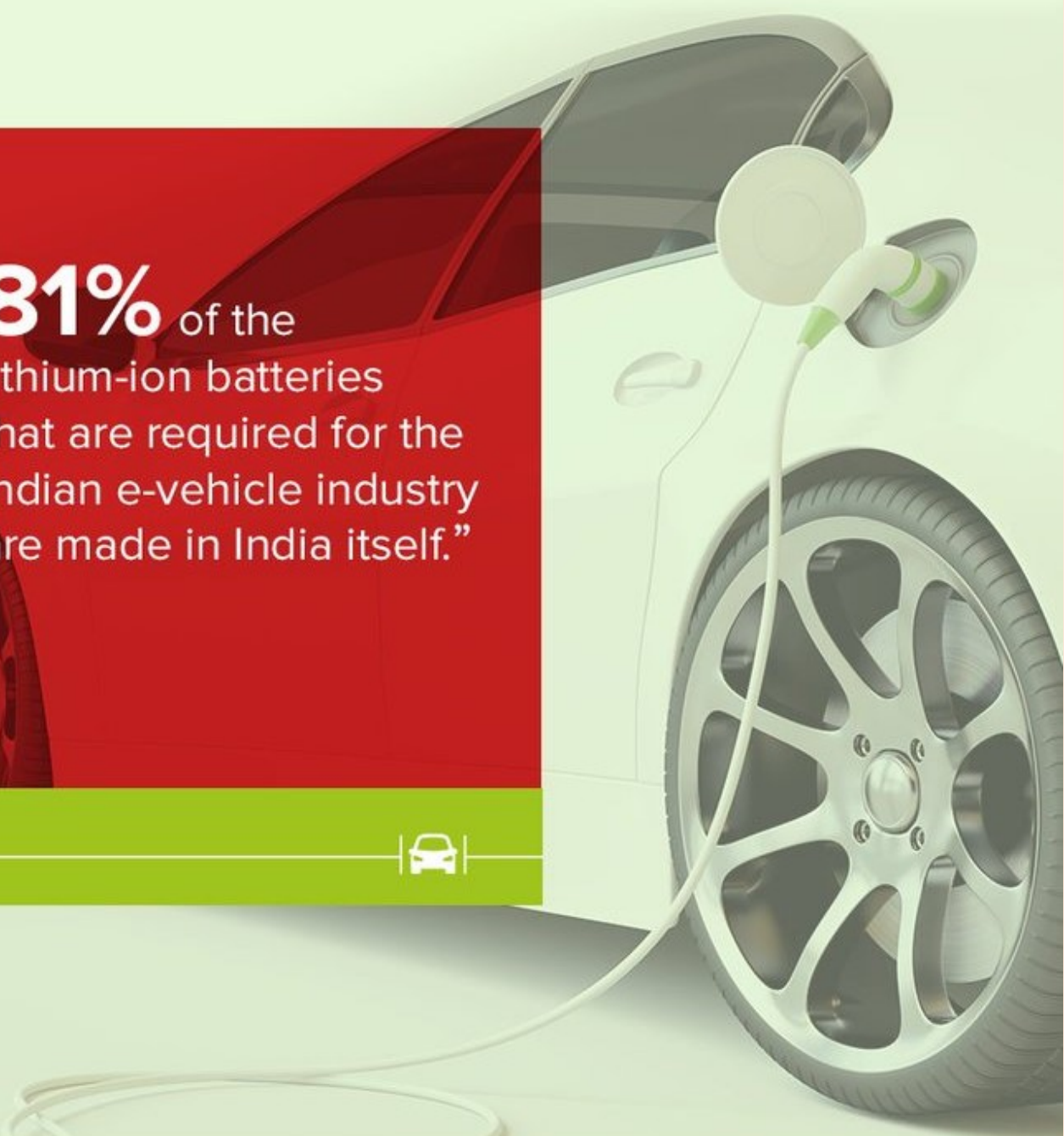
 Charging infrastructure to be
developed across the country





Mr Nitin Gadkari,
Minister of Road Transport &
Highways, Government of India.

“81% of the
lithium-ion batteries
that are required for the
Indian e-vehicle industry
are made in India itself.”

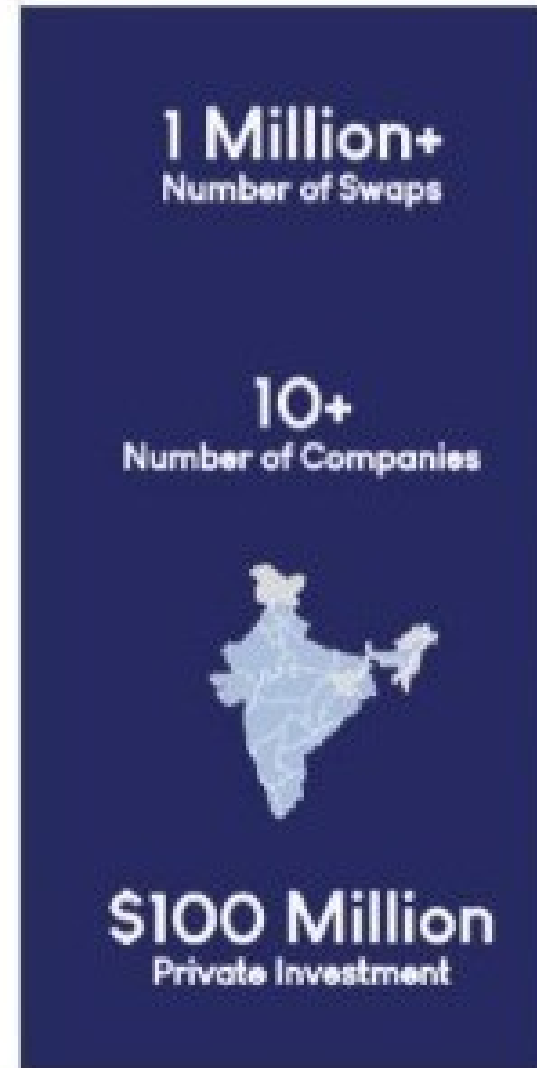


3.1.3 Battery Swapping Stations

Battery Swapping, derived from the more general Battery as a Service umbrella, is a new business model in the clean mobility sector and has seen widespread adoption in countries like China and Taiwan where 2W and 3W adoption is high.

Niti Aayog has published a Draft Battery Swapping Policy including guidelines on interoperability which will help in providing a robust ecosystem for the consumers and promote swappable battery vehicle adoption in India. As of now, there are several companies setting up stations on pilot/ POC basis in tier-1 cities and E-3W and E-2W are the focus segment.

Key Statistics



Players such as Bounce, Sun-Mobility and Battery Smart are performing thousands of swaps every day

Startups, Oil companies, Conglomerate businesses, PSUs, OEMs are all entering the battery swapping space

A total of 19 states have adopted EV policies, including battery swapping

Investments through funding in start-ups as well as partnerships with OEMs

Urban
Transport

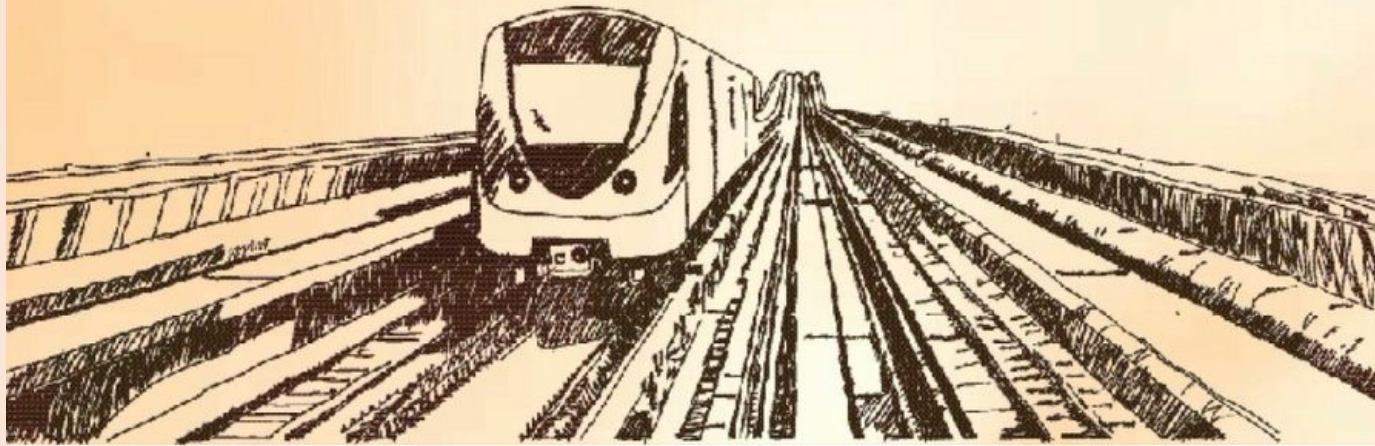


Ministry of Housing and Urban Affairs
Government of India



TRANSFORMING URBAN LANDSCAPE

The total
operational length
of Metro network
in India crosses
500 km



State Initiatives

BEST'S ELECTRIC FLEET TO SOON HIT 450

MUMBAI HAS MAXIMUM E-BUSES IN INDIA

The number of BEST's electric buses has crossed the significant mark of 400, cementing Mumbai's position as the city with the biggest e-bus fleet in India. **Somit Sen** reports

E-BUS FLEETS

*The largest e-bus fleet in the country among cities



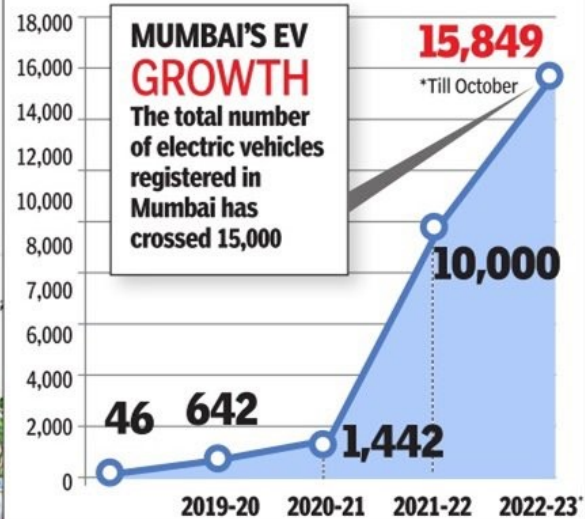
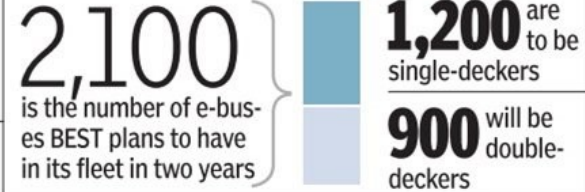
BEST'S PLANS

- BEST officials said they were expecting 50 new electric double-deckers to hit the road in October-November
- This will augment carrying capacity by at least 45% besides taking the e-bus fleet to over 450

Routes | Will mainly be in south Mumbai, servicing CSMT and Churchgate stations. Other routes will cover BKC from both Kurla and Bandra stations



What the future holds



“BEST's electrification is helping the city's emission reduction targets as set under the Mumbai Climate Action Plan. Public transport switching to electric is expected to serve as an example for private vehicle users who are as yet reluctant to adopt EVs — **Kaustubh Gosavi** | CONSULTANT (SUSTAINABLE CITIES AND TRANSPORT), WRI INDIA

As on 11 October 2022



DTC TO ROLL OUT **FIRST E-BUSES** TODAY PLANS OF **ADDING 300 BUSES** BY APRIL

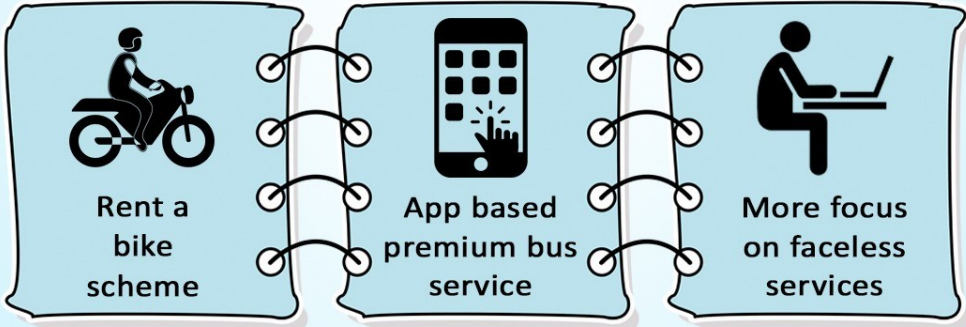
The **prototype bus** will do a 27-kilometre-long route from **Pragati Maidan** to **IP Depot**. The Delhi Govt. will use the prototype bus to understand battery backup and **other technicalities**. Based on this, the Govt. plans to add about **50 e-buses** every month.

Launched on 17 January 2022

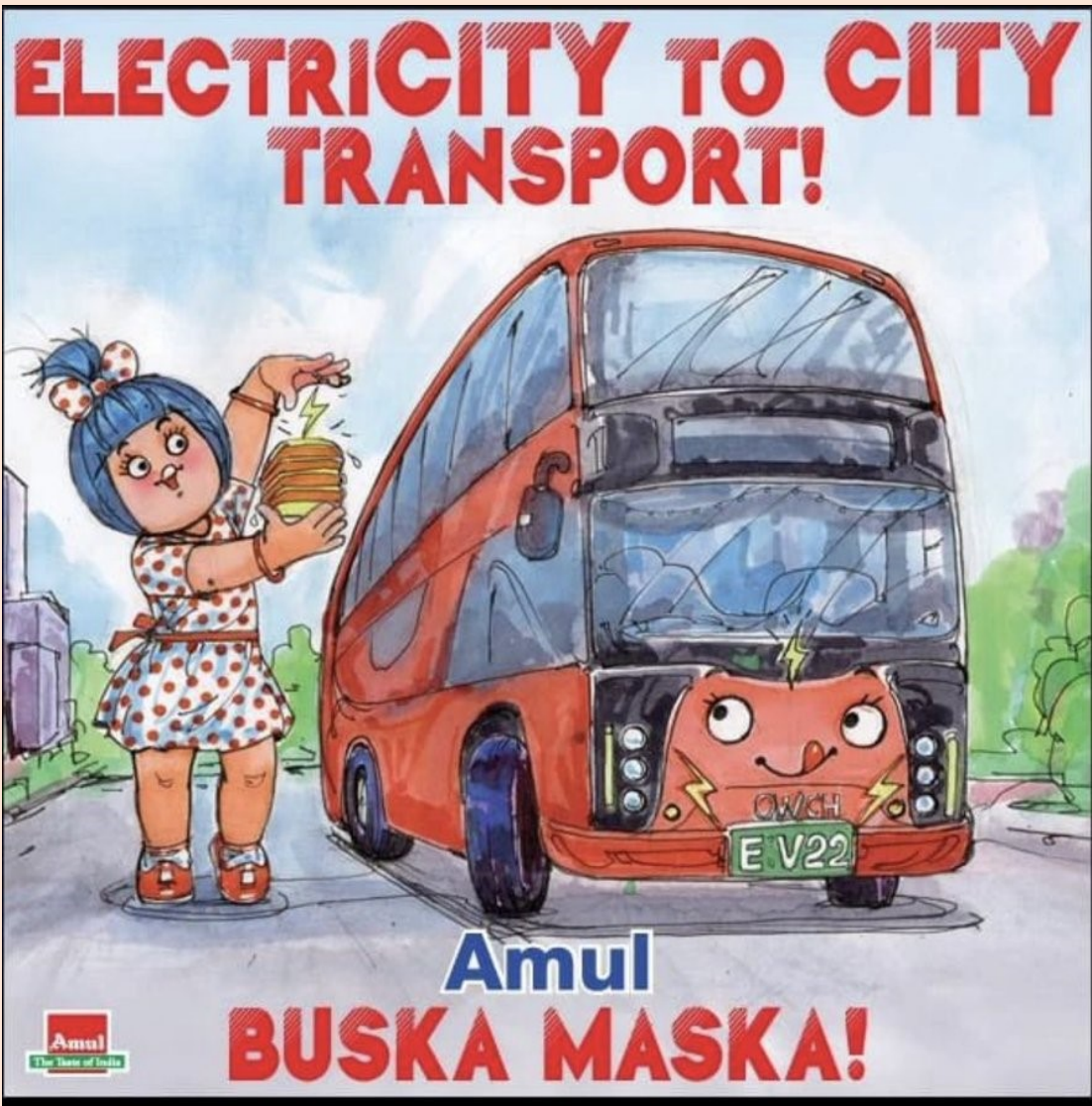
दिल्ली सरकार
आप की सरकार

**500 Electric buses under city's bus fleet
E-autos also to join the mass transit**

Delhi Government's initiative for 2022



   /DelhiGovDigital



Launched on 18 August 2022

Green Charge: All Bus Depots To Be Electrified

Delhi Plans To Have Close To 2,000 E-Buses Soon

ELECTRIC STEP

All 62 depots of DTC across the city to be 'electrified' in phases

152 Electric buses in DTC's current fleet



150 E-buses expected to be rolled out soon

330 E-buses to be added to the cluster scheme fleet

14 Number of existing depots that are being upgraded with charging infrastructure



140-250 km Range of distance an e-bus can run on a single charge

5-11 kv Charging capacity at existing bus depot for 100 to 175 e-buses

33-66 kv Charging capacity at new depots created for e-buses

1,500 Additional e-buses expected to be added to Delhi's public transport fleet

3 Number of bus depots equipped for e-buses

FEATURES

➤ New bus depots have been commissioned at Rohini Sector-37 and Mundela Kalan for 302 electric buses engaged by DTC

➤ DTC depots at Burari, Subhash Place, Mayapuri, Rajghat-II, Hari Nagar, Sukhdev Vihar, etc, will be used for parking and charging of e-buses

➤ E-buses will be parked on the depot's periphery and charging infrastructure will be in the middle area



As on 15 June 2022

Conclusion

- Green Mobility supports the UN Sustainable Development Goals (11: Make cities and human settlements inclusive, safe, resilient and sustainable, 13: Take urgent action to combat climate change and its impacts, 3: Good Health and Wellbeing, 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation).
- Indian States have undertaken competitive strategies in implementing Green Mobility for mitigating climate actions, reducing pollution, and achieving the sustainable transportation.
- Information and library professionals have been engaged in sharing knowledge resources through #OpenAcess information portals;
- They also have initiated awareness raising on green mobility, besides other aspects of Climate Justice.

Thank You !!!