

MSL  
**COCKPIT**  
E P I S O D E 3  
FEB 2024

# State of Electric Mobility

Technology, Energy, Climate,  
Infrastructure, Policy related insights  
from around the world in 2023

# Foreword

2023 has been a big year for electric vehicles.

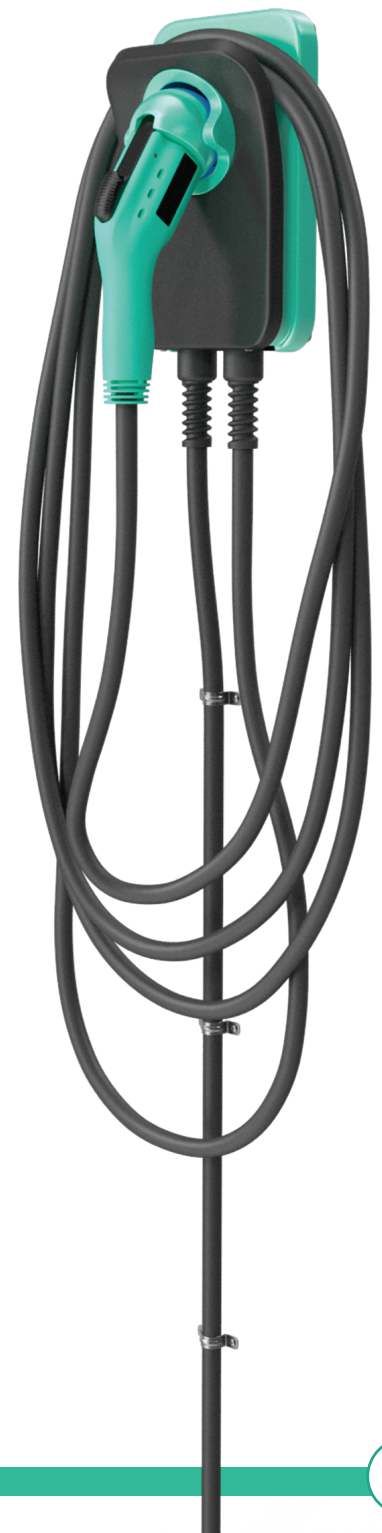
9.5 million units of fully electric passenger EVs have been sold. In early 2024, there were reports of BYD overtaking Tesla in global sales and there were several discussions from the World Economic Forum on EVs as well.

This edition of the cockpit deep dives into the global EV race, with conversations predominantly from 2023 serving as our base. The focus is not on units sold or consumer preferences towards particular brands, but on reputational and policy aspects of this critical technology, as all markets gear up their capabilities.

In order to accelerate EV adoption, countries are having to compete for resources, be mindful of build or buy decisions, incentivise manufacturers and customers as well as formulate regulations – a balance that needs continuous fine tuning.

We've looked at countries with the most EV-related conversations in English to determine common themes and mapped the patterns accordingly. Our study revealed that most news and tweets were reports on government policies and incentives, charging infrastructure, multilateral partnerships, job creation, environmental and economic impact. These were followed by conversations around consumer preferences and concerns.

In this report, we also cover the various technologies at play in the segment, key political voices, as well as the top public policy imperatives being discussed globally.



# Executive Summary

In any rapidly evolving landscape, as is in the case of electric vehicles, government policies and initiatives play a pivotal role in shaping market dynamics and accelerating adoption. Across the globe, nations are implementing a range of strategies to support the transition towards cleaner transportation solutions. Here are the top themes that emerge:

## *Incentive Structures*

Many countries have introduced financial incentives to reduce the cost for EV purchasers. These incentives include tax rebates, grants, and subsidies directly aimed at lowering the upfront purchase price. Such measures are designed to make EVs more competitive against traditional internal combustion engine vehicles.

## *Regulatory Frameworks*

Governments are setting ambitious targets for EV adoption, often backed by regulatory mandates. These include requirements for automakers to achieve a certain percentage of EV sales within their total sales mix, promoting a shift towards electric mobility.

## *Infrastructure Investment*

Recognizing the importance of charging infrastructure to support EV adoption, public funds are being allocated to increase the number of charging stations. This includes fast-charging stations on highways and public charging points in urban areas.

## *Research and Development Support*

To foster innovation in the EV sector, governments are providing funding for research and development. This support covers various aspects of EV technology, including battery research, electric drivetrains, and the integration of EVs into the energy grid.

## *Public Procurement Programs*

Some governments are leading by example by incorporating EVs into public fleets. This not only increases demand for EVs, but also demonstrates the government's commitment to sustainable practices.

## *International Collaboration*

Recognizing the global nature of the automotive industry, countries are engaging in international partnerships to align on standards, share best practices, and collaborate for research. The aim seems to be to harmonise regulations and support the global transition to electric mobility.

## *Local Initiatives*

Beyond national policies, local governments are implementing their own initiatives to promote EV adoption. These include low-emission zones, parking privileges, and grants to support the installation of private charging points.

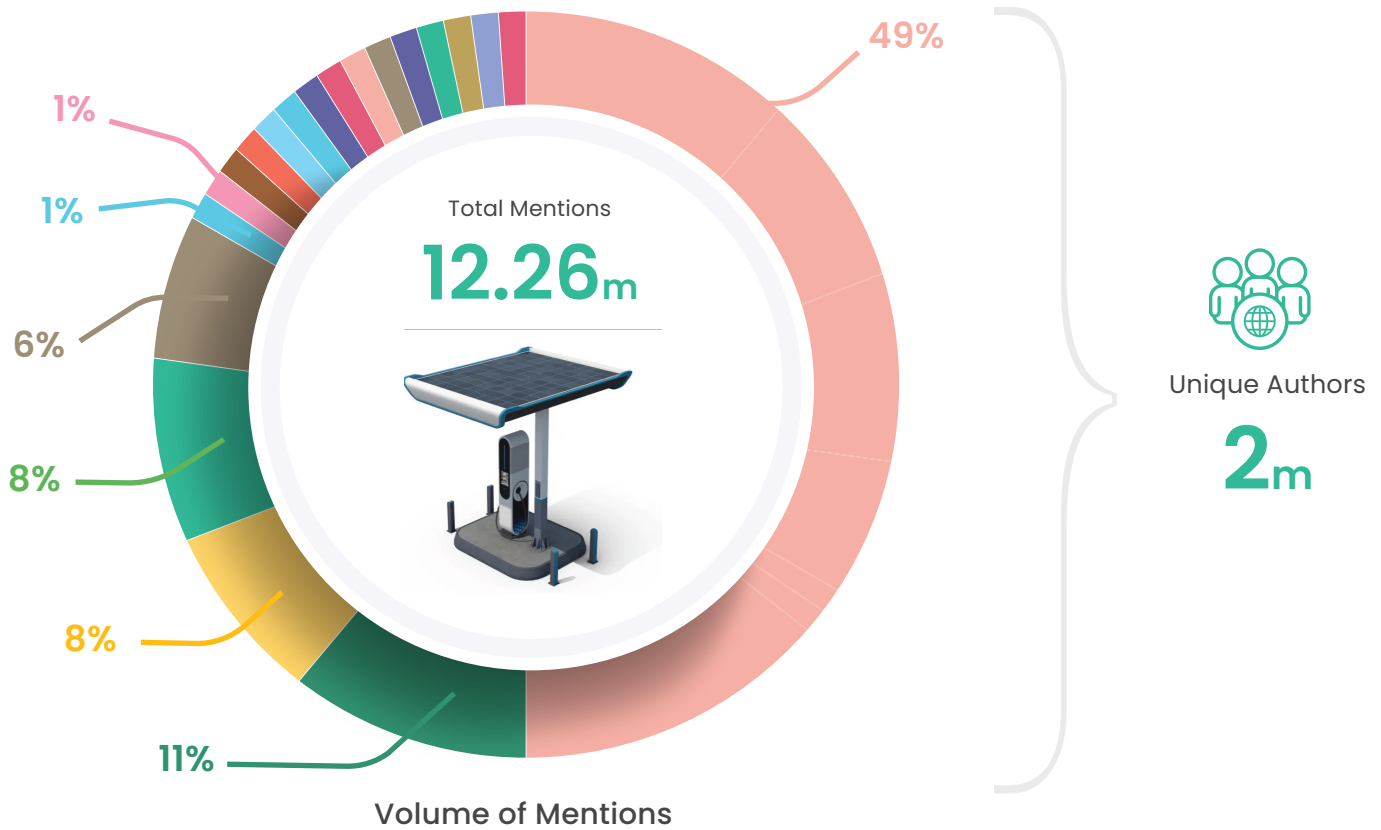
As the EV market continues to mature, the interplay between government policies and market dynamics will shape the pace and scale of the transition to electric mobility. Governments are tasked with balancing the need to stimulate the market and support innovation while ensuring that the benefits of electric mobility are accessible to a broader segment of the population.

In the following sections, we delve deeper into some of these themes.



# Key Insights

EVs | Jan 01, 2023 - Dec 31, 2023



United States of America	United Kingdom	Canada	India
Australia	Germany	Malaysia	South Africa
Nigeria	Indonesia	Republic of Ireland	United Arab Emirates
China	Netherlands	Singapore	France
New Zealand	South Korea	Japan	Philippines

The top countries with respect to mention volumes were the **United States (49%), UK (11%), Canada (8%), India (8%) and Australia (6%)** with the remaining having a negligible SOV in English.

The themes range from human rights, regulatory and labour concerns to safety, electrification infrastructure costs, trade partnerships and fierce competition among brands.

The battle for dominance in battery technology is an important consideration, with Asia being a key region due to the concentration of battery supply chains. Countries such as Germany and Australia are looking to be global suppliers of resources for clean-energy technology.

Countries like India, Australia, and the US are signing agreements to enhance collaboration on critical and emerging technologies, semiconductor supply chains, and battery mineral supply chains. All this, while China remains dominant in refining battery-grade materials.

Each country is trying to extend its reach through different controls and levers. For example, in Australia, regulatory stability is highlighted as an attractive factor for mining investment. However, recent changes to industrial regulations have raised concerns about duplication and complexity.

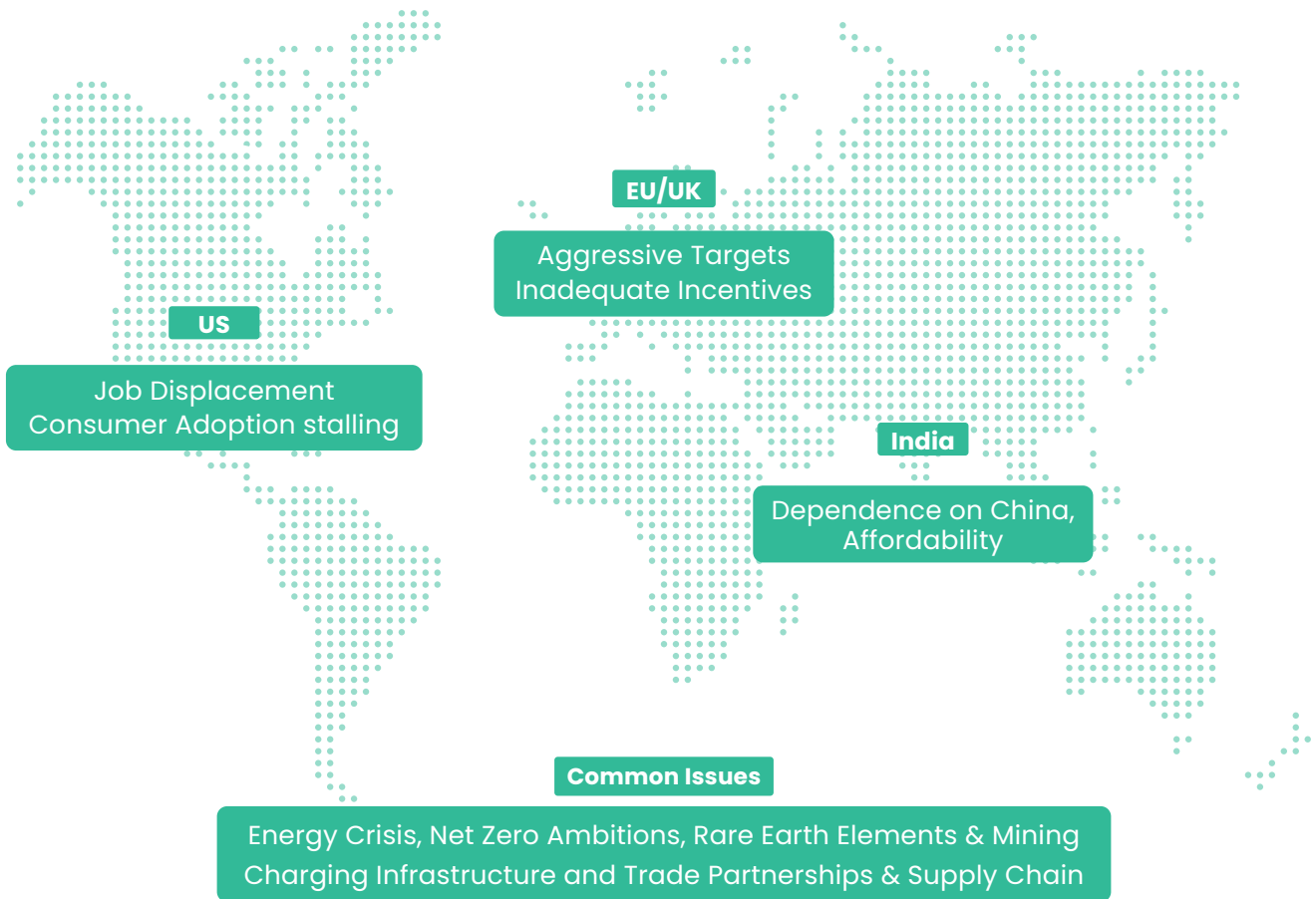
***Even with the best intentions, there are several roadblocks and factors to consider for infrastructure regulations, such as geographic reach, density, uptime, payment, and ease of use.***

***Although advanced material science and business models evolve (rapid battery replacement stations), light touch regulations can only go so far to innovate while keeping in mind some of the targets established by countries to go green and rapidly adopt EVs.***

When it comes down to it, the issues that advanced economies are facing are different to the challenges that emerging economies are facing. Some themes, however, share common ground.



# Country Snapshots



## US

- Key discussions were around the transition to an EV future, with emphasis on protecting and expanding union jobs and the American automobile industry
- There is both criticism and support towards Energy Secretary Jennifer Granholm's views for requiring the U.S. military to adopt an all-electric vehicle fleet and the Inflation Reduction Act that aims to make electric vehicles more accessible
- There are conversations about the Democrats' Green New Deal agenda, questions around the feasibility of an all-electric vehicle fleet for the U.S. military, and negative comments directed at the Biden administration's target of having 50% of all auto sales to be electric by 2030
- Elon Musk's views and actions, including his criticism of the White House and his exclusion from an EV summit get mentioned in several headlines
- Charging infrastructure remained a sore point despite the significant progress made by the country so far

## UK

- There is considerable scepticism – many headlines express negative views about the environmental impact, safety issues, high costs, and lack of infrastructure associated with EVs; some headlines also highlight incidents related to EV fires or accidents
- Concerns about resource extraction and ethical implications also emerge from several headlines that mention the use of materials like cobalt, lithium-ion batteries, and child labour in the production of EVs, raising ethical questions and emphasises the negative consequences of resource extraction
- Some headlines argue that EVs might not be as environmentally friendly as they seem to be, especially if the electricity grid is not decarbonized or if emissions from manufacturing and resource extraction are taken into account
- Headlines mention technological advancements and breakthroughs such as new battery technologies, longer ranges, and faster charging
- Several headlines discuss government initiatives, subsidies, and regulations related to EVs, along with mentions of specific companies and countries investing in and manufacturing EVs

## INDIA

- Discussions around the growth and development of the EV industry, including India's EV revolution and the increasing sales and demand for EVs in the market
- Mentions of the importance of establishing charging facilities and building infrastructure for EVs, as well as partnerships related to setting up of charging hubs and points along roads and highways
- There is a focus on investment in the EV sector, including investments in charging infrastructure, battery manufacturing facilities, and attracting EV manufacturers through PLI schemes – this includes challenges faced by certain regions in attracting EV investments
- Alternative energy sources made the headlines alongside topics such as diversification of supplies and the use of alternative materials like lithium-ion phosphate for EV batteries
- International developments in the EV industry, such as discussions between automakers like Volkswagen and Tesla for adopting EV charging standards and Tata Motors testing EVs in global markets, have been widely reported

## Australia

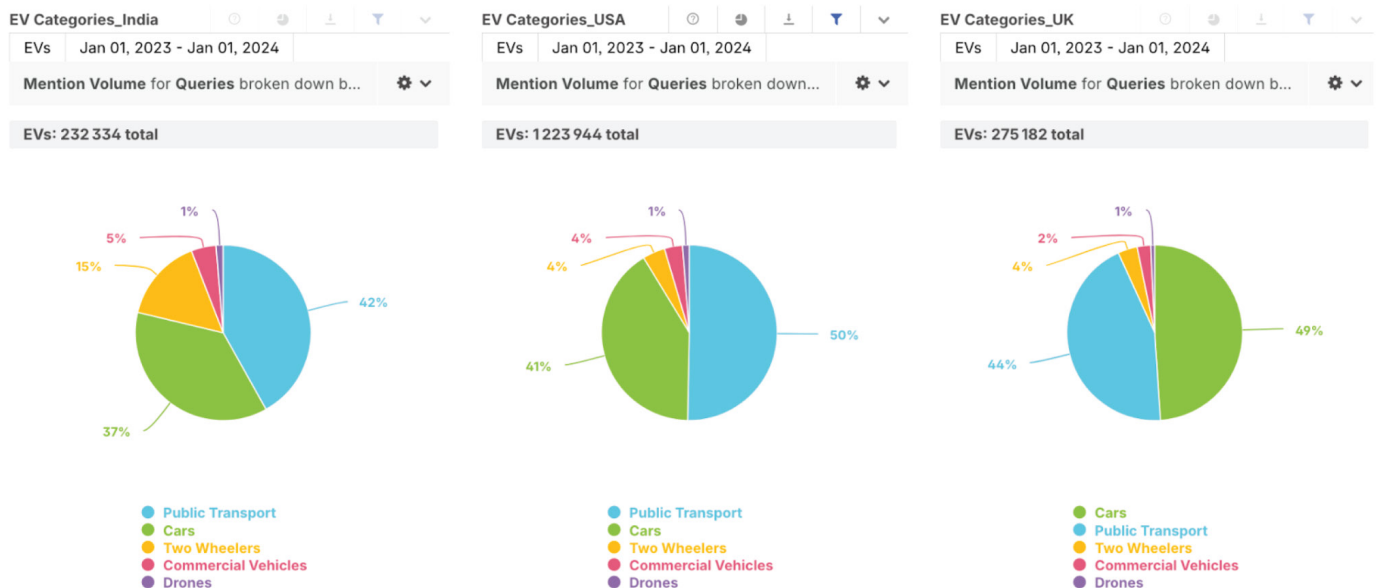
- Australia has been signalling the importance of transitioning to EVs to reduce carbon emissions and combat climate change
- Government policies and initiatives have sought to increase adoption through discount programs, national strategies, and fuel efficiency standards
- Cost and affordability of EVs is a core concern, there are conversations around expensive battery replacements and the need for incentives to make EVs more affordable
- Challenges and obstacles for EV adoption are somewhat similar to those of other countries at the moment – limited availability and range of charging infrastructure, resistance from certain sections of society, and concerns about the impact on small businesses and gas stations

We have compiled the top narratives uncovered from our research (English news mentions) and have found the key themes being discussed in these countries as well.

	PH	CA	IN	NZ	ID	GB	US	AU	MY	SG	ZA	KR	AE	JP	NL	NG	IE	FR	DE
Government Policies & Initiatives	⚡	⚡	⚡	⚡		⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡			⚡
Charging Infrastructure & Technology	⚡	⚡	⚡		⚡		⚡			⚡	⚡	⚡	⚡		⚡		⚡	⚡	
International Developments & Comparisons	⚡	⚡	⚡	⚡	⚡	⚡			⚡	⚡	⚡		⚡	⚡					
Environmental Impact & Sustainability		⚡		⚡	⚡	⚡		⚡		⚡	⚡				⚡	⚡			
Economic Impact & Job Creation	⚡	⚡	⚡	⚡			⚡		⚡			⚡		⚡					
Cost & Affordability	⚡		⚡	⚡				⚡	⚡							⚡	⚡		⚡
Challenges & Opposition		⚡		⚡		⚡	⚡	⚡											⚡
Innovation & Technology	⚡				⚡	⚡	⚡					⚡	⚡						
EV Market & Demand	⚡		⚡		⚡													⚡	

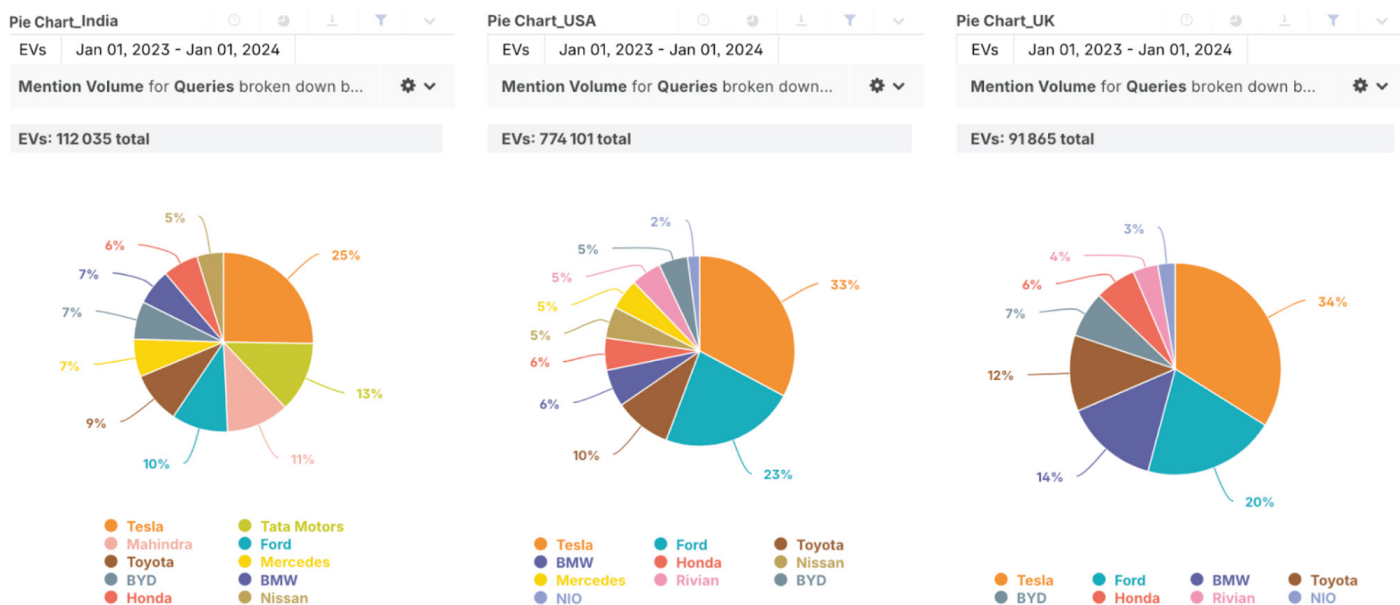
# In the News: Electric Mobility In The US, UK, & India

The electric mobility landscape has been evolving through step change innovation for several years now. It is also interesting to see how the ecosystems vary with the needs of various countries. For example, when we sliced and diced through vehicle categories, we found that India was much more invested in having conversations around **commercial and two wheelers**, especially in the context of last mile deliveries. The impact that **accessible and affordable technology** can have in these segments is much more profound when compared with the US or UK.



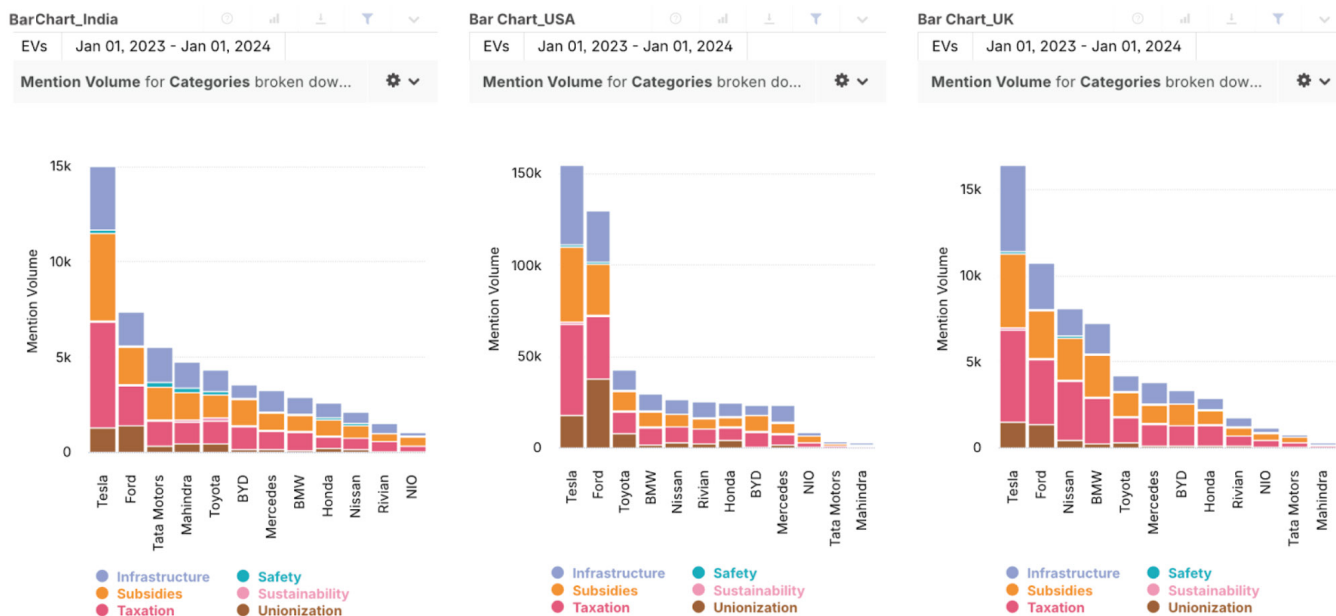
We also found consistent trends when we mapped automakers against each of the countries we looked at. Even though Tesla has not yet arrived in India, as category maker, it found several mentions in the media. In the second half of 2023, there were actual plans for Tesla to launch in India as well, leading to even more stories. India as a market also was cued in on all sorts of developments in EV, given the mounting interest in the country.

The following charts show us how these markets differ when the news mentions are tallied up:



When we map the brands against regulatory themes, we see how Mahindra and Tata show up in unionisation-related discussions in India, albeit in a positive light. The country's efforts to resolve codependence on others through **PLI schemes** have been received favourably.

In the developed economies on the other hand, there was more news about **settlements with the UAW**.



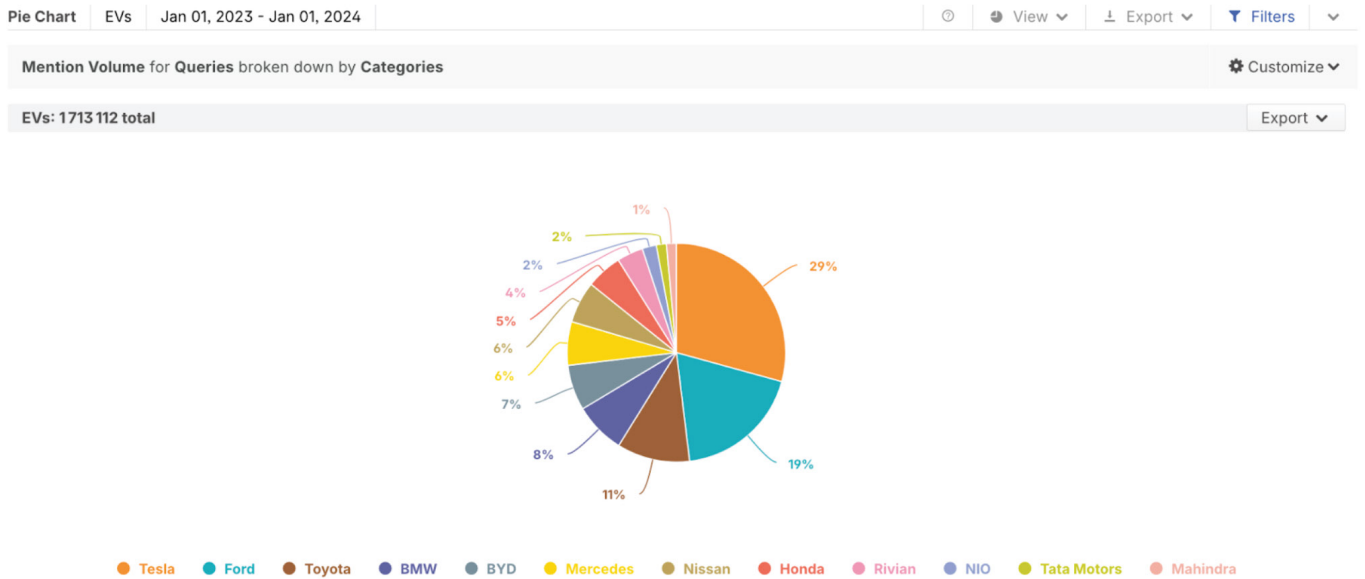
When we look at this at an aggregate level, the priorities become more apparent. **The overarching trend seems to be that India's policymaking, while providing market access to multinational companies, remains firm on import duties, providing no discernable advantage to any one firm over the other. On the other hand, Indian firms are allowed to compete fairly, only so long as they adhere to some considerations on open protocols (standardised battery swaps, charging infrastructure). This should benefit the Indian consumer in the long run.**

Notably, the narrative is very closely linked to the country's ambitious growth plans as almost any discussion around incentives and new investments is tied to employment generation opportunities (which is critical, given the large levels of unemployment, and a large youth population). The subsidies and approach taken by India in this regard are not going unnoticed and the unpopular opinion **here is that by ending subsidies** (such as the FAME program), Indian firms will be forced to be more competitive, which might help reduce the dependence on China.

There is **palpable excitement in India** about the future of EVs given the opportunities within the semiconductor, power and energy solutions, grid and embedded systems jobs.

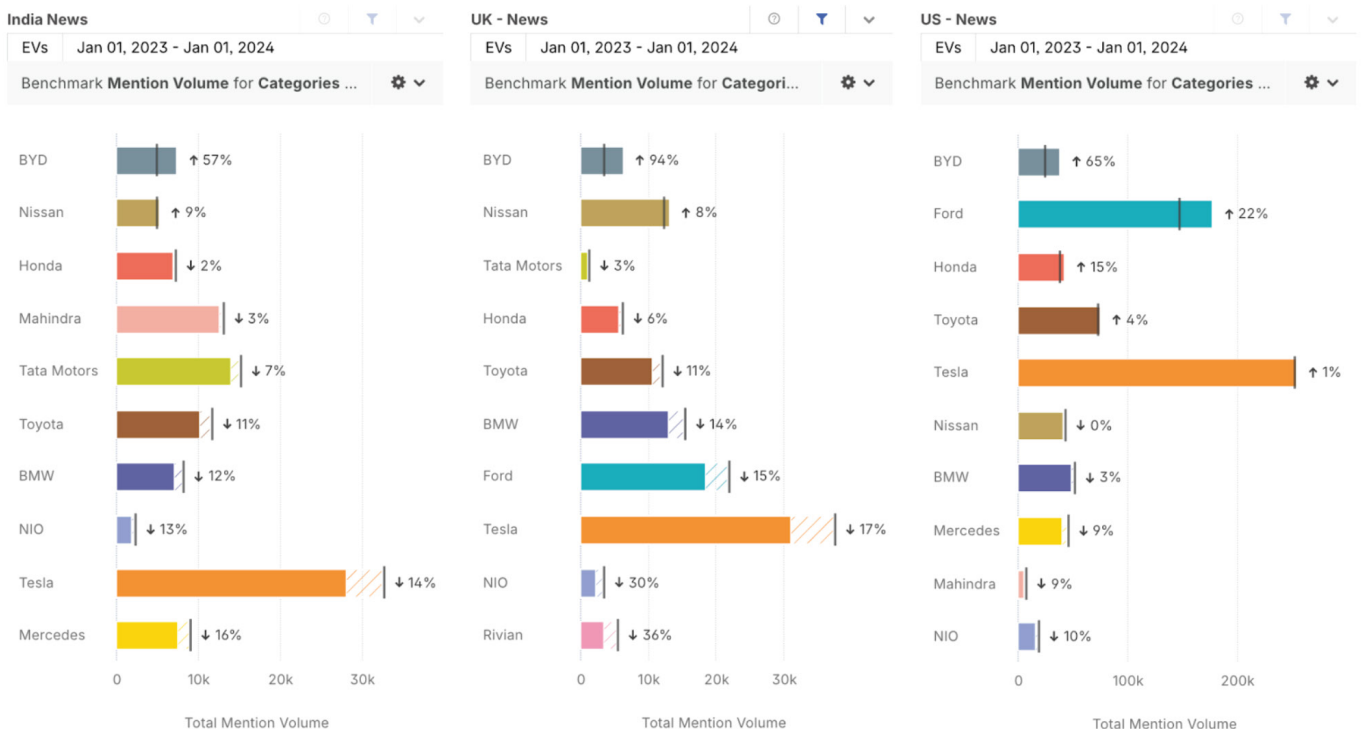


# Key Players In The News

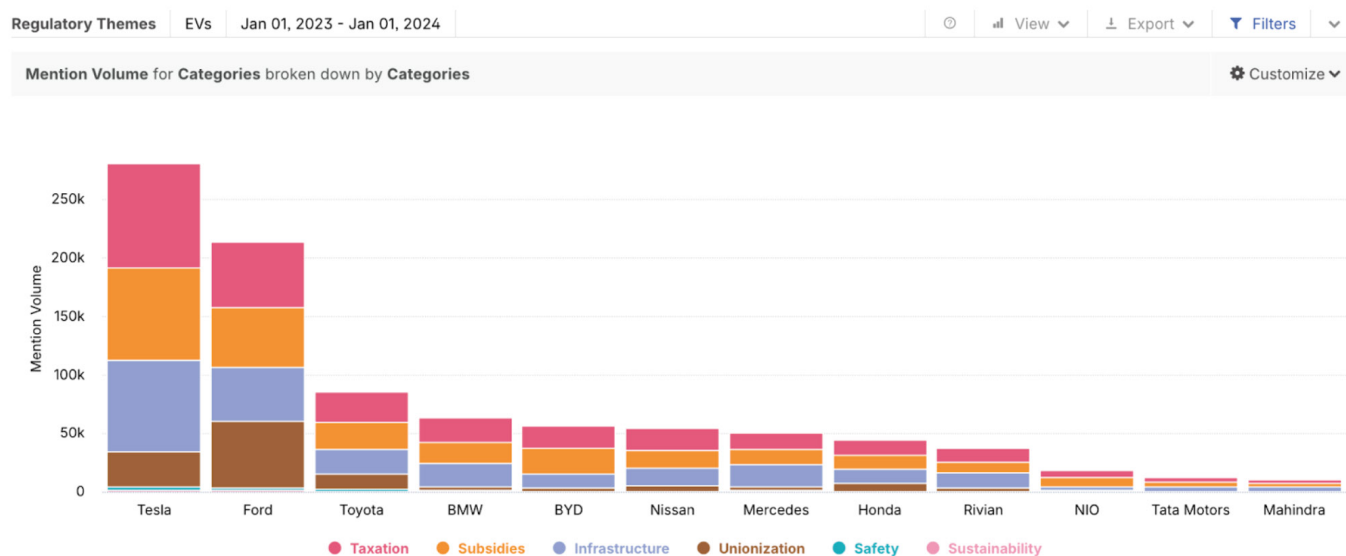


While a lion's share of the conversation on the web is taken up by Tesla, other manufacturers still have a fair representation. The largest rise in mentions, compared to 2022, has been for Chinese automaker BYD, with news mentions alone going up 107% from 2022.

While the Chinese auto manufacturers have faced several challenges in all markets, they have been growing by 50% year on year since 2021 in the EU (a tightly regulated market). Chinese manufacturing stereotypes, import costs and lesser developed EV markets are just some of the challenges these brands have had to combat.



Notably, not all increases in mention volumes for other brands are good news. Upon slicing the data further around regulatory themes, we were able to unveil some crippling challenges automakers are facing in specific markets.



In the US, the United Auto Workers hopes that the significant wage and benefit gains in **tentative agreements** with Ford, General Motors and Stellantis (the parent of Jeep and Chrysler) will spark unionisation efforts throughout the industry. The EV transition is leading to a surge in non-union EV jobs and manufacturing investments. The Midwest's share of EV jobs has declined, while the South is experiencing growth in this sector.

Tesla, Ford and Toyota have particularly high mentions around unionisation because of the strikes and wage adjustments they have had to make.

**Despite federal tax breaks and subsidies, it appears that the initial growth spurt may be tapering off a bit in the US. High inflation and overall cost of EVs, along with an incomplete charging infrastructure is discouraging the next tier of price conscious adopters. While governments around the world are pushing for a transition towards EVs with appropriate incentives, orchestrating this against the interests of union workers with fears of automation remains an uphill battle.**

While efforts are ongoing to move the entire supply chain including battery manufacturing closer to shores, the race is on multiple fronts and needs to take into account the interests of multiple parties. These include activists, analysts, policymakers, workers and consumers. All this, against the backdrop of significant geopolitical tensions. China is recovering from a property bubble and an energy **crisis in the EU**, for example.

Toyota aims to have a global EV-only lineup by 2035, with some regions transitioning completely to electric vehicles as early as 2030. The company is rolling out a range of electric vehicles to catch up with rivals.

# Powering Mobility: Battery Technology

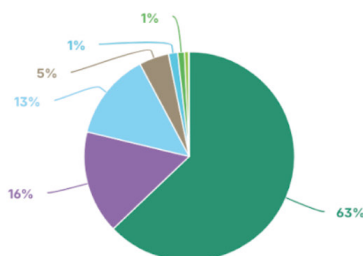
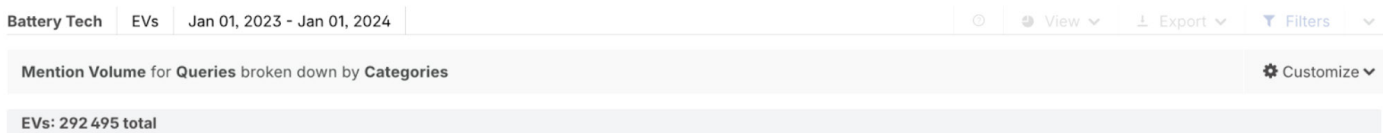
Battery Technology has been at the forefront of the EV race across countries. Often seen as a fundamental weapon in the war chest needed to win, this space continues to see sharp competition and a slew of partnerships from automakers.

Often loosely regulated, it has also led to a rise in activism. There have been conversations around the human rights violations [in Congo](#), dangerous [mining practices in Indonesia](#) known to ruin natural resources in soil and water by releasing toxic waste in production, and [disposal of batteries](#).

Toyota is investing in solid-state batteries to improve the driving range and charging time. The company plans to introduce solid-state battery EVs as early as 2027, and is working on developing and mass-producing all solid-state batteries.

**Currently, up to 40% of the cost of an EV is its batteries. With emerging viable technologies such as solid-state batteries, and with recycling measures in place, the superbatteries will allow for the ecosystem to finally thrive with consumers less bothered about range. However, innovation in this space has a long way to go and everything from the use of AI in battery management to safe disposal and recycling of materials needs attention.**

Graphite restrictions in China and the trend of EV manufacturers using less cobalt and more manganese in their batteries highlights the importance of battery technology advancements in the electric vehicle industry. The volatility in raw material prices is making EVs less affordable, prompting the need for stable supplies and potential government regulations or subsidies.



- Lithium-Ion Battery
- Lithium-iron-phosphate (LFP)
- Solid state battery
- Lead-acid batteries
- Nickel- Metal Hydride Batteries
- Zinc-ion Battery
- Nickel Cadmium (NiCd)
- Ultracapacitors

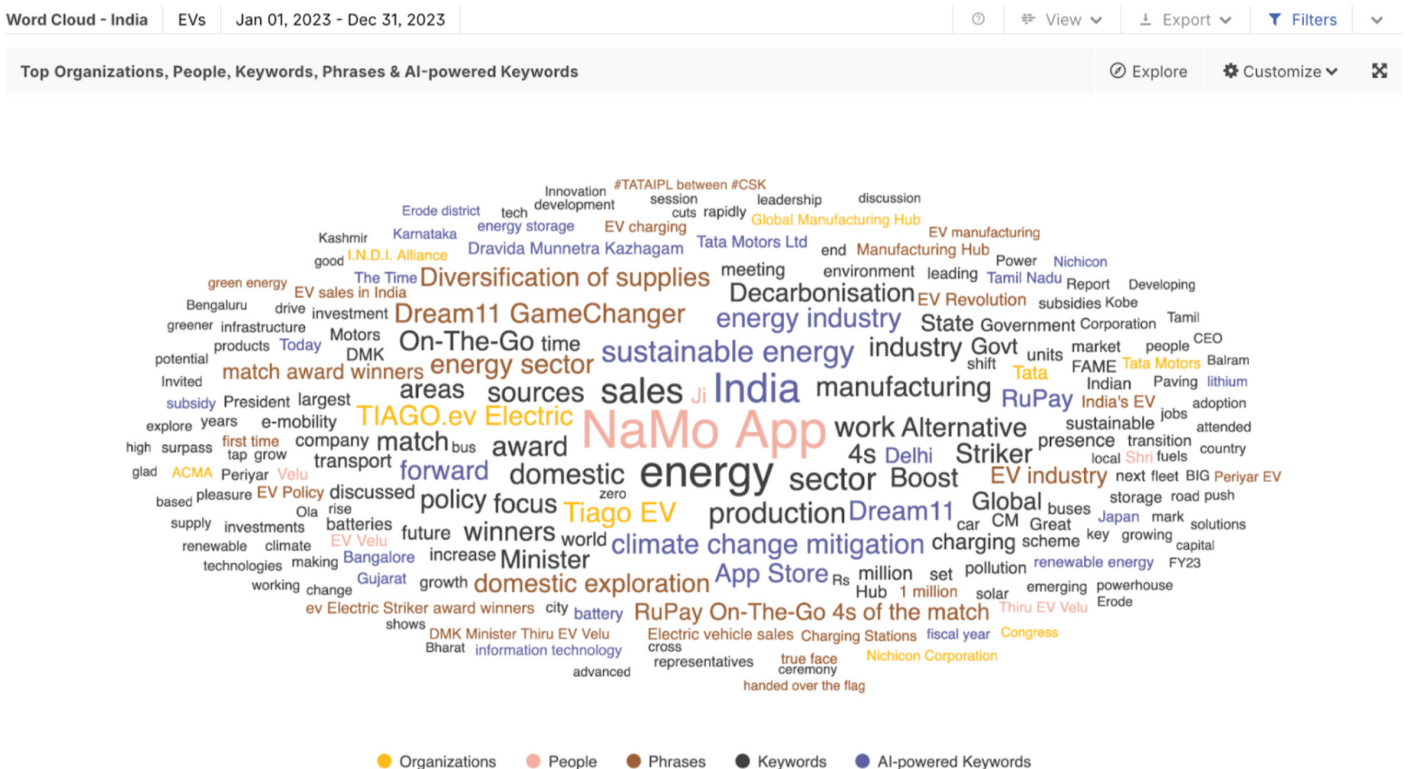


# The Politics Of EV

## India

Politicians and bureaucrats from India have been sharing their ambitious plans for the sector from a growth and employment creation perspective. This fits the narrative given India's youth unemployment problem.

Some other themes that emerge in tweets from Indian politicians.



## Manufacturing hub

**PMOIndia (PMO India) @PMOIndia** 8 Aug

India's EV Revolution: Paving The Way To Becoming A Global **Manufacturing Hub** <https://t.co/4Xem1tElyY> via NaMo App <https://t.co/wemtmWon18>

Retweets: 371 Replies: 63 Impressions: 55564476

Tags: EV1

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**VSReddy\_MP (Vijayasai Reddy V) @VSReddy\_MP** 11 Feb

The discovery of 5.9 million tonnes of Lithium is great news for India! We now have the 2nd highest reserves of Lithium which is one of the key components in EV batteries, cell-phones and laptops. This discovery can surely boost India's tech **manufacturing** and export sector.

Tags: EV1 Battery

## Decarbonisation



**narendramodi (Narendra Modi)** @narendramodi ✓

6 Feb

Our 4 focus areas of the energy sector: Boost domestic exploration and production. Diversification of supplies. Alternative energy sources. **Decarbonisation** through work in EVs and more. <https://t.co/7fZ5lifPro>

↩ Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**JPNadda (Jagat Prakash Nadda)** @JPNadda ✓

6 Feb

RT @narendramodi Our 4 focus areas of the energy sector: Boost domestic exploration and production. Diversification of supplies. Alternative energy sources. **Decarbonisation** through work in EVs and more. <https://t.co/7fZ5lifPro>

↩ Reply ↻ Retweet ♥ Like

## Policy

**Tejasvi\_Surya (Tejasvi Surya)** @Tejasvi\_Surya ✓

4 Feb

Tax issues, EVs, ESOPs, IPR concerns, Battery Swapping **Policy**, domestic capital in start ups, licensing **policy**, standards for health care devices - these & more were discussed at this fascinating discussion with Sri @PiyushGoyal Ji. Thank all StartUp founders for making it! <https://t.co/NmJPajUKT9>

↩ Reply ↻ Retweet ♥ Like



Technologies: Charging Tech

Govt. interventions: Taxation

...(expand for more)



**AnupriyaSPatel (Anupriya Patel)** @AnupriyaSPatel ✓

25 Jan

RT @rashtrapatibhvn The poor bear the brunt of global warming more than others. Developing and popularising alternative sources of energy is one of the solutions. India has taken a commendable lead in this direction by giving a **policy** push to solar energy and electric vehicles.

↩ Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**Drsubhassarkar (Dr. Subhas Sarkar)** @Drsubhassarkar ✓

2 Feb

Union Budget 2023: FM lines up sops for EVs; push for scrappage **policy** too <https://t.co/iq1llag90w> via NaMo App <https://t.co/CqiE2ve5mt>



## Innovation

**Tejasvi Surya (Tejasvi Surya)** @Tejasvi\_Surya ✓ 1 May  
Development of B'luru features prominently: \* Designating this Region as 'State Capital Region', enabling city to become Global Hub of Digital **Innovation**. \* Reforming & modernising Karnataka Apartment Ownership Act. \* EV hub & converting 1,000 BMTC buses into electric. 2/n <https://t.co/By2uMLiCW1>



← Reply ↻ Retweet ♥ Like

Mobility: Public Transport

Tags: EV1

...(expand for more)

**chandruyer (Chandru Iyer)** @chandruyer 7 Jul  
A very insightful and thought-provoking lunch meeting for **@SciTechgovuk** Minister **@GeorgeFreemanMP** with the leading lights of **#NammaBengaluru** from the world of **#IT**, **#Biotech**, **#EV** and many others. Exciting times ahead for the **🇮🇳 🇬🇧 S&T, Research & Innovation** corridor. <https://t.co/png8eeKlri>  
Retweets: 9 Replies: 0 Impressions: 1710424 ← Reply ↻ Retweet ♥ Like  
Tags: EV1  
...(expand for more)



## State Policy

**GhanendraB (Ghanendra Bhardwaj)** @GhanendraB 7 May  
RT **@AamAadmiParty** Delhi Govt wins State Leadership Award - **EV Policy** at Industry Excellence Awards 2023 🏆 🇮🇳 The award celebrates the **@ArvindKejriwal** Govt's efforts to promote clean and sustainable transportation 🇮🇳 The policy incentivises the adoption of EVs, facilitates the installation of... <https://t.co/E5nuMnobC1>



Retweets: 0 Replies: 0 Impressions: 6230 ← Reply ↻ Retweet ♥ Like

Policies & Initiatives: Sustainability

...(expand for more)

**GhanendraB (Ghanendra Bhardwaj)** @GhanendraB ✓ 2 Mar  
RT **@DaaruBaazMehta** PROUD MOMENT FOR INDIA & DELHI GOVT Delhi **@ArvindKejriwal** Governance Model being showcased and presented in Tokyo, Japan Delhi's innovative solutions for a greener future presented at G-NETS summit in Tokyo by **@Gupta\_ReenaG**  
⚡ **EV Policy** 🌱 Green Delhi App 🏞️ City of Lakes etc <https://t.co/36CXhjY9K8>  
← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)

# Fleet

**HardeepSPuri (Hardeep Singh Puri)** @HardeepSPuri ✓

24 Jan

RT @PetroleumMin Hon'ble Minister, #MoPNG Sh. @HardeepSPuri launched a new **fleet** of Bikozee #EV scooters in the presence of Hon'ble MoS Sh. @Rameswar\_Teli & Hon'ble CM #Assam, Sh. @himantabiswa. This **fleet** would enable electrification of end to end logistics support in last mile delivery sector. <https://t.co/5st96tKU9r>

↩ Reply ↻ Retweet ♥ Like

Mobility: Two Wheelers

Tags: EV1

...(expand for more)

**GhanendraB (Ghanendra Bhardwaj)** @GhanendraB

10 Nov

RT @AamAadmiParty Delhi's Drive Towards an EV Revolution! 🇮🇳 Largest E-Bus **Fleet** in India - Done ✅ 2nd Largest E-Bus **Fleet** in the World - Next Target 🌟 Delhi's on a roll, powered by Kejriwal's bold EV leap – it's not just swapping buses, it's a transformation! <https://t.co/XDtxKdmkqK>

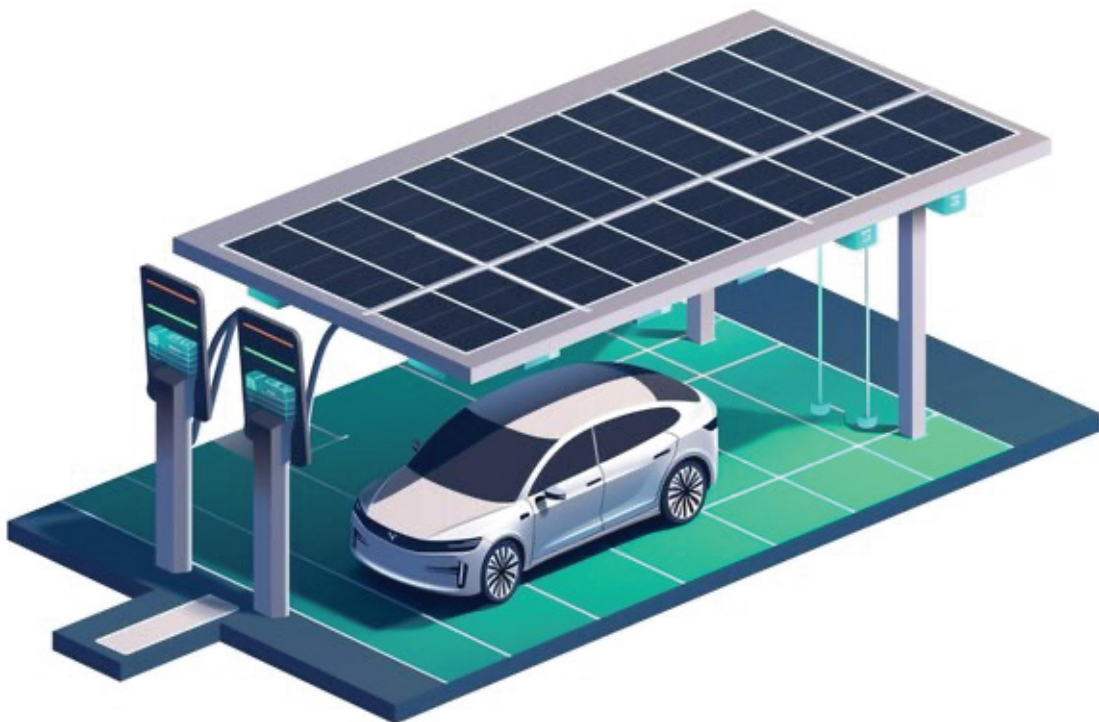
Retweets: 0 Replies: 0 Impressions: 6455 ↩ Reply ↻ Retweet ♥ Like

Mobility: Public Transport

Tags: EV1

...(expand for more)

**Delhi eyes 2nd largest e-fleet buses in the world by 2025**





## ULEZ



**SadiqKhan (Sadiq Khan)** @SadiqKhan ✓

6 Aug

I've made even more financial support available for Londoners who need to change their vehicle ahead of the **ULEZ** expansion this month. You don't need to buy an electric vehicle - just one which meets emissions standards. Be part of the solution ✓ <https://t.co/y2heukHUT2>

← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**HowardCCox (Howard Cox)** @HowardCCox ✓

15 Jul

.@SadiqKhan's #ULEZ signs are being installed right across G London. Here at the south of the capital in Biggin Hill I saw his dishonest new cash grab signs already in place to further his hatred of drivers. Pay/mile is coming under his tenure, even for EVs too @Cox4London... <https://t.co/l5vFgsubWb>

Retweets: 440 Replies: 88 Impressions: 913805 ← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**HowardCCox (Howard Cox)** @HowardCCox ✓

27 Aug

A secret that's not been v well kept. We all knew #ULEZ cameras are for future pay/mile taxation. @SadiqKhan has been recruiting staff to beat @Jeremy\_Hunt in grabbing drivers dosh first. All to replace the declining



## Transition to EV



**Wera\_Hobhouse (Wera Hobhouse MP)** @Wera\_Hobhouse

20 Jul

Building a new gigafactory in Somerset is a welcome step by Jaguar Land Rover after years of the South West being neglected by government investment. If we want to get to net zero, we must **transition to electric vehicles**. <https://t.co/OvkaZLOubE>

Retweets: 11 Replies: 11 Impressions: 32070 ← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**PennyMordaunt (Penny Mordaunt)** @PennyMordaunt ✓

20 Sep

RT @RishiSunak Because the upfront cost for families is still high, and to give us more time to prepare, we're easing the **transition to electric vehicles**. That means you'll still be able to buy new petrol and diesel cars and vans until 2035, in line with countries like Germany and France. <https://t.co/4nPiQ0gvGc>

← Reply ↻ Retweet ♥ Like



## Labour



**jreynoldsMP (Jonathan Reynolds)** @jreynoldsMP

12 Jul

Labour's plan will: part finance the battery gigafactories we need to build electric vehicles accelerate the rollout of charging points secure an agreement on rules of origin and prevent tariffs make the UK a clean energy superpower by 2030 <https://t.co/1IERbytGHX>

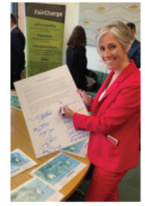
← Reply ↻ Retweet ♥ Like



## Charging



**libdemdaisy (Daisy Cooper MP)** @libdemdaisy 23 Feb  
#ElectricVehicle drivers without home **charging** pay four times the VAT rate for their electricity from public on-street networks. This isn't just unfair, it's slowing EV adoption. Today I added my name to calls by @fairchargeuk to #AxeThePavementTax <https://t.co/fENDyrGi9w>



Reply Retweet Like

Govt. interventions: Taxation Tags: EV1 ... (expand for more)



**HowardCCox (Howard Cox)** @HowardCCox 8 Jul  
I will support those well off whinging EV campaigners who want their toys funded even more by ALL tax payers, in cutting their VAT at the **charging** points when petrol & diesel drivers get a 20p reduction in fuel duty too. <https://t.co/dJXV0mtw3m>

Reply Retweet Like

Govt. interventions: Taxation Tags: EV1 ... (expand for more)

**Jeremy\_Hunt (Jeremy Hunt)** @Jeremy\_Hunt 9 Sep  
On Thursday, I opened one of Europe's largest EV **charging** sites. Almost half of Britain's car production is now electric and the big global car companies are increasingly choosing to locate here, but we need to unlock **charging** facilities like this one across the country.

Reply Retweet Like

## British manufacturing



**AngelaRayner (Angela Rayner)** @AngelaRayner 14 May  
RT @UKLabour Labour will deliver 80,000 jobs in the car industry and growth across the country with our plans to turbocharge electric vehicle manufacturing and support **British** industry. More below <https://t.co/8tmdAd7wvP>

Reply Retweet Like

Mobility: Cars Tags: EV1 ... (expand for more)



**Bill\_Esterson (Bill Esterson)** @Bill\_Esterson 9 Mar  
The automotive sector is the jewel in the crown of **British** manufacturing, but the government's sticking plaster approach puts this at risk. Labour's plan will invest in 8 gigafactories, roll out the EV charge points and reduce electricity prices with home generated clean power. <https://t.co/PxE06JohKm>

Retweets: 5 Replies: 4 Impressions: 61554 Reply Retweet Like

Tags: EV1 ... (expand for more)



**SKinnock (Stephen Kinnock)** @SKinnock 17 Jan  
RT @darrenpjones If we're going to keep making cars in the UK, we need to also make electric vehicle batteries. The demise of **British** Volt today has show this is a pre-commercial industry that needs more support from the Government. Another example of Ministers asleep at the wheel... <https://t.co/6LDWESlrL7>



## Charging



**SecGranholm (Secretary Jennifer Granholm)** @SecGranholm

26 Aug

Listen, we know range anxiety is real. 🚗🔌 EV sales have tripled under President Biden, and we're determined to keep up that momentum. That's why we've released \$7.5B👉 to make public **charging** stations more accessible and boost consumer confidence. <https://t.co/vcn0nM4KC8>

← Reply ↻ Retweet ♥ Like

Challenges: **Infrastructure**

Govt. interventions: **Infrastructure**

Car Themes: **Range**

...(expand for more)



**SecGranholm (Secretary Jennifer Granholm)** @SecGranholm ✓

23 Dec

First, Ohio. Then, New York. Tomorrow? Maybe your neck of the woods. The Joint Office of @ENERGY and @USDOT has begun to roll out the first of thousands of EV **charging** stations as part of President Biden's made-in-America **charging** network.

Retweets: 91 Replies: 61 Impressions: 553029 ← Reply ↻ Retweet ♥ Like

Govt. interventions: **Infrastructure**

Tags: **EV1**

...(expand for more)



**SenJoniErnst (Joni Ernst)** @SenJoniErnst ✓

23 Dec

Only in Washington would spending billions to open just two EV **charging** stations be touted as a national success story. I'm fighting to pull the plug on Biden's road trip to nowhere.

## Inflation Reduction Act



**SenMarkKelly (Senator Mark Kelly)** @SenMarkKelly

18 Aug

The **Inflation Reduction Act** is turbocharging investment in Arizona's clean energy economy 📈🔋 13 new or advanced clean energy projects 🏗️\$7 billion from electric vehicle and battery manufacturers 🧑‍🏭11,000 good-paying jobs and counting

← Reply ↻ Retweet ♥ Like

Car Themes: **Battery**

Tags: **Sustainability** **Battery**

...(expand for more)



**SecGranholm (Secretary Jennifer Granholm)** @SecGranholm

25 Jul

"[The **Inflation Reduction Act**] has prompted investment in a massive buildout of battery and EV manufacturing...Nearly 80 major clean energy manufacturing facilities have been announced, an investment equal to the previous seven years combined..." <https://t.co/ax6i2YGFXg>

Retweets: 73 Replies: 40 Impressions: 359704 ← Reply ↻ Retweet ♥ Like

Car Themes: **Battery**

Tags: **Sustainability** **Battery**

...(expand for more)



**PattyMurray (Senator Patty Murray)** @PattyMurray ✓

26 Jan

I successfully fought to make sure the **Inflation Reduction Act** puts money back in the pockets of families by lowering energy costs. Click the link below to learn more about new tax credits you might be eligible for. <https://t.co/au09tlij56>

## UAW



**SenVancePress (Senator Vance Press Office)** @SenVancePress ✓

19 Sep

Senator @JDVance1: **UAW** should force Biden to stop subsidizing EV industry "The **UAW** should use their leverage and force the President to stop subsidizing an industry that benefits Communist China more than it does American workers." <https://t.co/jclv01zKwb>

← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**SenVancePress (Senator Vance Press Office)** @SenVancePress ✓

13 Sep

🇺🇸 As **UAW** strikes loom, 'members feel abandoned' by Dems The Dems are "pursuing a set of EV policies that are enriching an industry primarily headquartered in China at the expense of workers in Ohio, Michigan and Pennsylvania," Senator @JDVance1 said. <https://t.co/MdYhbP5aXW>

Retweets: 37 Replies: 24 Impressions: 108803 ← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**JDVance1 (J.D. Vance)** @JDVance1 ✓

13 Sep

Any resolution must account for that fact. I support the **UAW's** demand for higher wages, but there is a 6,000-pound elephant in the room: the premature transition to electric vehicles. While EV supply chains are still heavily concentrated in China, the Biden administration (2/10)

## China



**SenJoniErnst (Joni Ernst)** @SenJoniErnst ✓

19 Apr

President Biden's radical EV proposal makes us more reliant on Communist **China** and forced labor practices. @SenateGOP is fighting to increase domestic production and reduce our reliance on foreign adversaries. <https://t.co/u7i7AFuKd7>

← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**SenJohnKennedy (John Kennedy)** @SenJohnKennedy ✓

1 Dec

The Biden admin's rule would make life more expensive for Americans and our auto industry more reliant on **China**. At a time of high inflation, no one should be forced to buy an electric vehicle. <https://t.co/RbIFoeuF22>

← Reply ↻ Retweet ♥ Like

Tags: EV1

...(expand for more)



**KristiNoem (Kristi Noem)** @KristiNoem ✓

4 Aug

South Dakota is stepping up to protect our land from Communist **China**. But Michigan is handing the land over to a nation that hates us. The Biden Administration and the rest of the nation need to wake up to this danger. <https://t.co/op8DYPuxK9>

# Steering Towards A Sustainable Future

As we stand at the cusp of a transformative era in transportation, the journey towards electric mobility entails not just a shift in automotive technology but a pivotal stride in environmental stewardship and energy sustainability. The global discourse around EVs, as highlighted in this report, underscores a collective endeavour to reimagine our relationship with mobility, energy, and the planet.

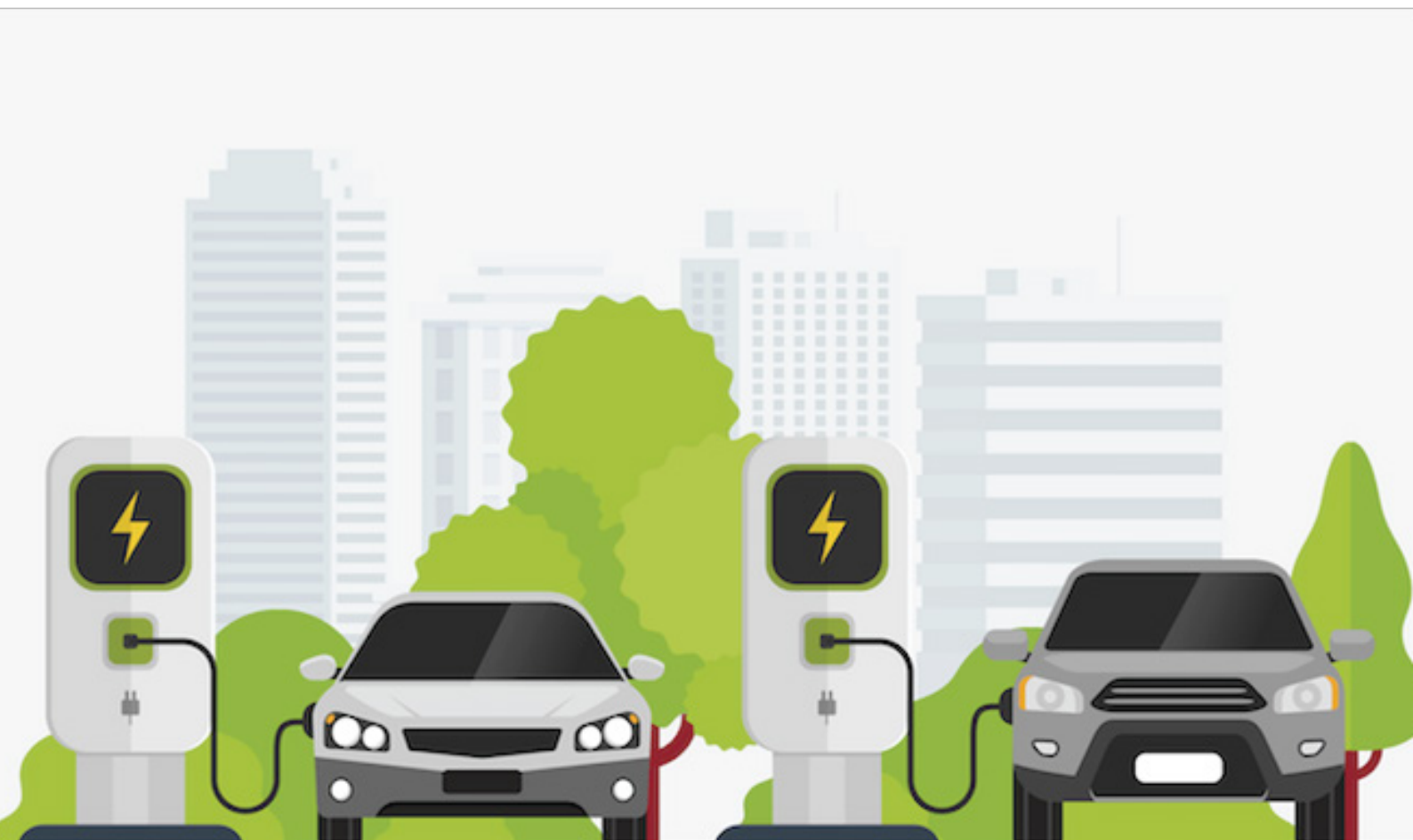
The electric mobility landscape, marked by rapid innovation and diverse ecosystem dynamics, reflects the unique challenges and opportunities across different geographies. The US is focused on union jobs and infrastructure, while India's emphasis is on last-mile delivery solutions. UK's primarily concerned with the environmental and ethical considerations. The path to electrification is quite varied, even if the ultimate goal is unified.

The narratives from various countries highlight a concerted shift from the reliance on fossil fuels, mitigating climate change, and fostering economic growth through green technology. The advancements in battery technology, particularly the development of solid-state batteries and sustainable recycling practices, represent the frontier of this transition, promising to enhance efficiency, reduce costs, and improve the overall EV experience.

The journey, however, is not devoid of challenges. Issues such as raw material volatility, geopolitical tensions, and the need for a robust charging infrastructure continue to test the resilience and adaptability of the EV ecosystem. Moreover, the conversation around unionisation and labour rights underscores the need to make green transition equitable and inclusive.

**In the grand tapestry of electric mobility, each thread (from policy and technology to market dynamics and consumer behaviour) weaves a narrative of innovation, collaboration, and sustainability. As countries navigate the complexities of this transition, the vision of a sustainable, efficient, and connected mobility future becomes increasingly tangible.**

The road ahead is not just about electrifying vehicles but electrifying our collective imagination towards a cleaner, greener, and more equitable world. The transition to electric mobility is not merely a technological shift but a testament to human ingenuity that drives positive change on a global scale. As we accelerate towards this electrified horizon, let us embrace the opportunities and challenges with equal fervour. Let us keep steering towards a future that promises not just mobility, but sustainability at its core.



# Methodology

Our methodology involved analyzing key topics discussed predominantly in English across select countries, such as India, Canada, the UK, and Japan, highlighting government policies and charging infrastructure as significant themes. The absence of countries like France and the Netherlands suggests discussions in local languages were outside the scope of our study.

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