

BSE Limited
First Floor, New Trading Ring
Rotunda Building, P J Towers,
Dalal Street, Fort, Mumbai 400 001
Kind Attn: Mr Khushro A. Bulsara
General Manager & Head

Listing Compliance & Legal Regulatory

Listing Compliance Department
National Stock Exchange of India Ltd.
Exchange Plaza, Bandra Kurla Complex,
Bandra (E), Mumbai 400 051

Kind Attn: Mr Lokesh Bhandari Senior Manager

Senior Manager
<u>Listing & Compliance</u>

November 10, 2021 Sc- 16569

Dear Sirs,

Sub: Submission of Investor presentation made to Analyst/Investors

With further reference to our letter bearing sc no. 16566 dated November 9, 2021 and pursuant to Regulation 30 read alongwith Schedule III Part A para A of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, as amended, please find enclosed herewith the presentation made to Analysts/Investors at their meeting held today i.e. November 10, 2021.

Yours faithfully, Tata Motors Limited

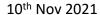
Maloy Kumar Gupta Company Secretary

Encl: As above





Mr. Shailesh Chandra









Indian EV industry: Progress so far...

Electrification is an imperative to address key issues of national interest



Issues of National Interest



Urban Pollution

- 14/15 polluted cities
- 1.2 Mn deaths
- Welfare losses 7.7% of GDP



Increasing Trade Deficit

Vehicular fuel requirement to increase to 90Bn in 2030 from 40Bn in 2017



Energy Security

~70% of oil sourced from countries with geo-political risks





COP 26 commitment

Reduction in emissions intensity by 45%¹ percent below 2005 levels by 2030, net zero by 2070



"Amtmanirbhar" Bharat

Proactive localization of EVs and New technologies in Automotive filed



Employment generation

Maintain and enhance the employment in Automotive sector



1. https://economictimes.indiatimes.com/news/india/global-media-hails-indias-commitment-incop26-summit/articleshow/87566929.cms

Multiple barriers have kept the penetration of EVs low in India





Range anxiety

Poor range for long/outstation trips, High charging time, Unpredictable range



Ltd. charging infrastructure

Inadequate, Unavailable on-demand, Unreliable power supply



Lack of suitable EV options

Limited models, Not aspirational, Inadequate range



Lack of awareness of EVs

EVs are low speed - low performance cars for city usage



Higher cost

Higher vehicle price, Residual value, Battery replacement cost



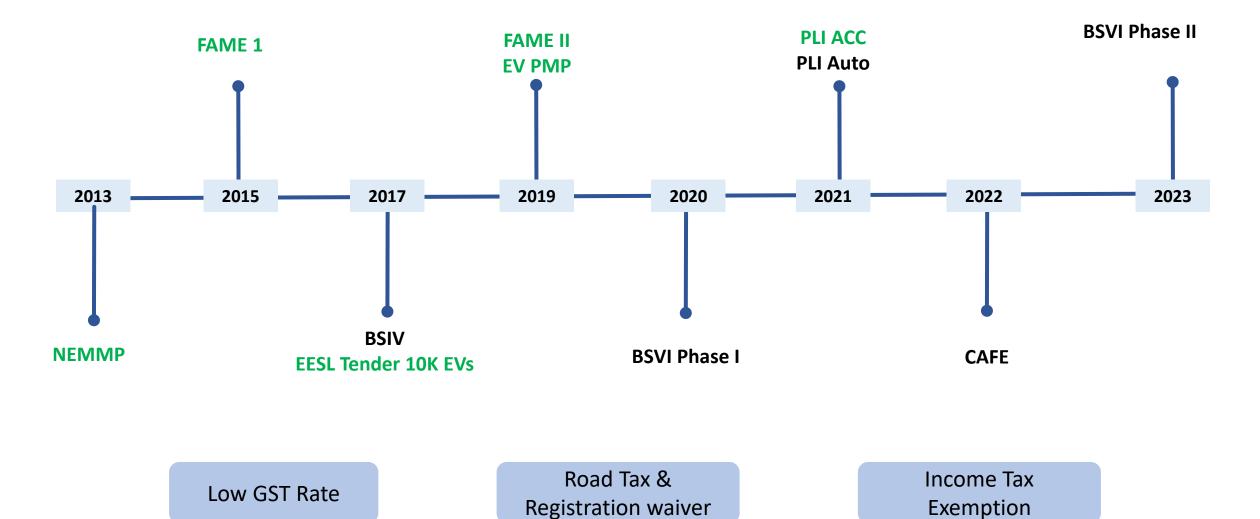
Technology uncertainty

Battery life uncertainty, Safety concerns



Government has shown a strong intent to drive electrification through enabling policies to overcome the barriers to adoption







Offering more choices to the customers and addressing the issues around range and price have been crucial in increasing the consideration for EVs



XXPRES-T











Xpress- T (LV): 162 Km and 213 Km, 21 kWh

Nexon EV (HV): 312 Km, 30.2 kWh

Tigor EV (HV): 306 Km, 25.9 kWh



Awareness creation, credibility building and myth busting have brought greater confidence among prospective buyers



Creation of Awareness & Aspiration

State of the art EV tech brand **Ziptron** launch



An immersive drive experience of the Nexon EV



Building Credibility & Breaking Myths



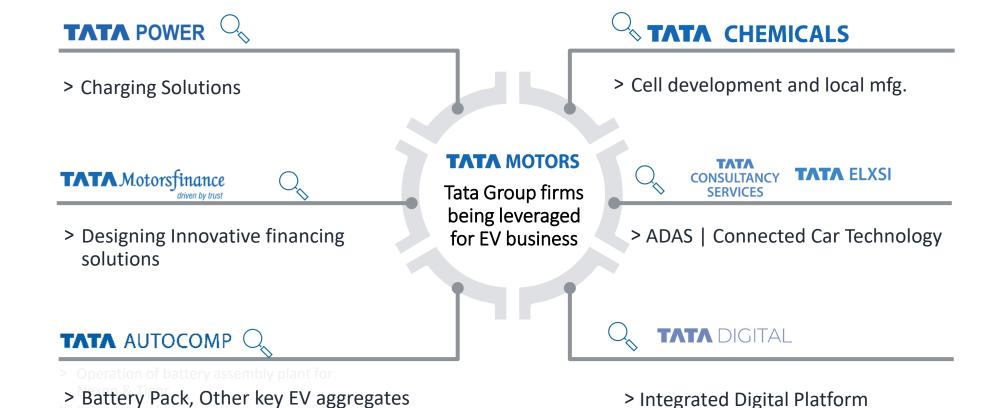
owered by ADVENTURE MATION





Ecosystem Approach has enabled synchronized action among various companies to overcome the real barriers to adoption



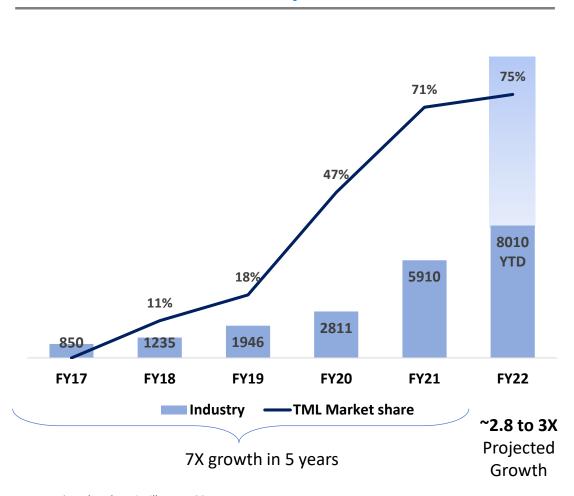




Thus, EV industry has witnessed a significant growth with consumer base shifting from early adaptors to early majority



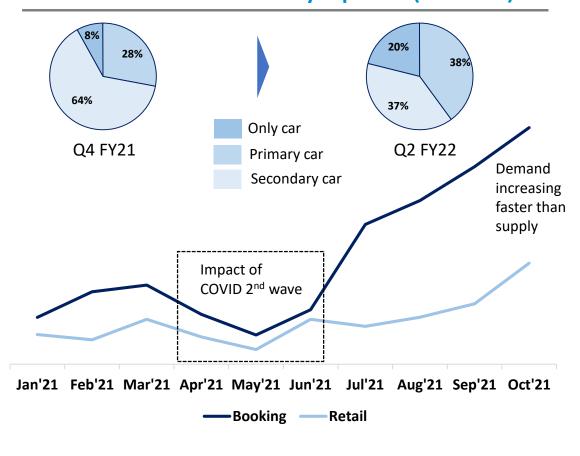
EV Industry Growth



75% market share is till YTD FY22

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Demand Scenario and buyer profile (Tata EVs)



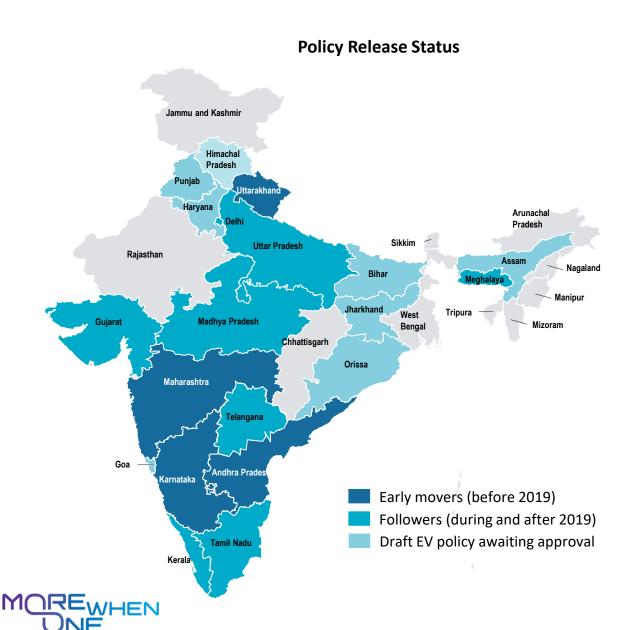




What will support the future growth?

Going forward, state specific EV policies will drive EV adoption





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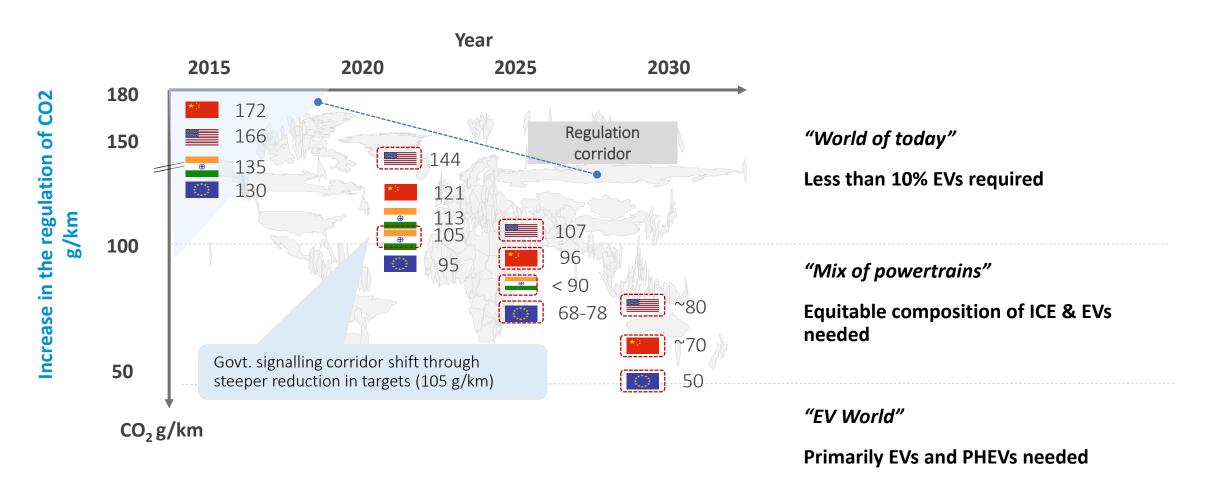
State	Demand subsidy	Road tax exemption	Charger subsidy
Delhi	✓	✓	✓
Maharashtra	✓	✓	✓
Gujarat	✓	X	✓
Andhra Pradesh	X	Х	✓
Karnataka	X	✓	✓
Kerala	Х	Partial	✓
Madhya Pradesh	X	✓	✓
Tamil Nadu	X	✓	X
Telangana	X	✓	X
Uttar Pradesh	X	Partial	X
Uttarakhand	X	✓	X
Bihar (Draft)	✓	✓	✓
Goa (Draft)	✓	X	✓
Haryana (Draft)	✓	✓	✓
Meghalaya (Draft)	✓	✓	X
Punjab (Draft)	Х	✓	✓
Jharkhand (Draft)	✓	✓	✓

Stringent emission roadmap will force OEMs to have EVs in their portfolio



Corridor for potential CO2 regulation

Required powertrain portfolio



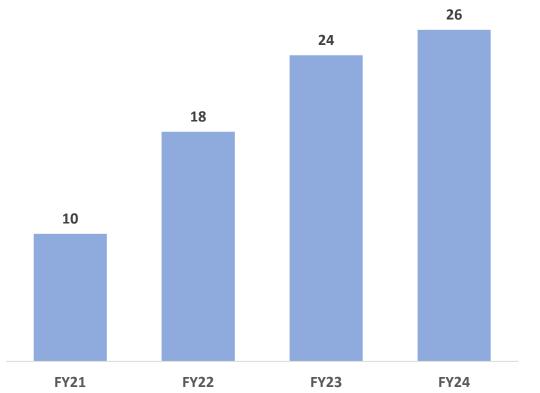


Customers will get range of options as OEMs gear up to introduce long range EVs to meet stringent regulations and to support Government's vision









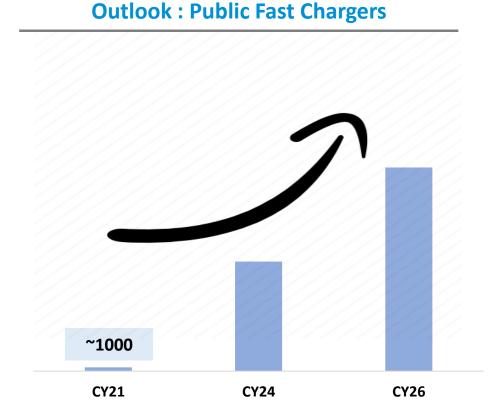
Average on board energy



Interest from public and private players across the value chain will proliferate charging infrastructure



Value Chain HW equipment **EXICOM DELTA** provider Infrastructure Hyderabad **OEM** owner Dealerships IndianOil Charging **BESCOM** 1 एनटीपीसी NTPC station **TATA** EESL **TATA POWER** operator Charging **TATA POWER Centum** -chargepoin+ network **€Z CHARGE** provider



Localization of battery will help optimize cost

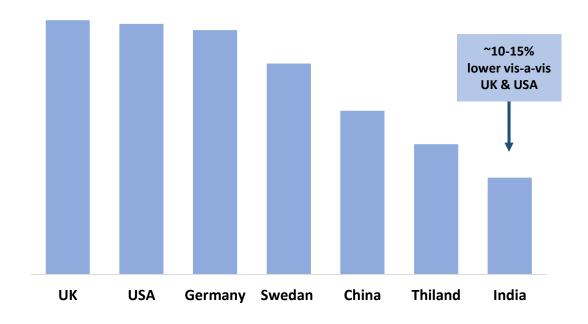


Key highlights of ACC PLI scheme



- Production linked incentive scheme to establish
 battery manufacturing in India
- 18000 Cr. outlay planed
- 50GWh of capacity to be established
- Additional 5GWh for niche battery chemistries

Estimates for cell manufacturing cost [USD/ Kwh]



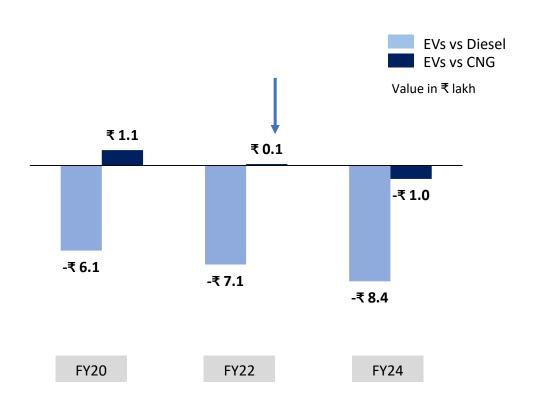
Source – BNEF Cost is hypothetical for 'If battery cells are manufactured in India'



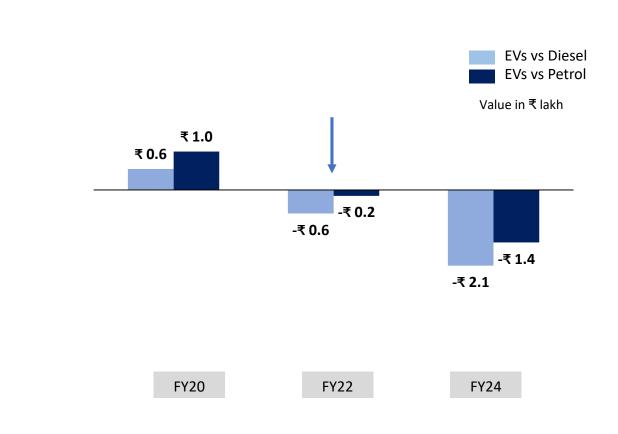
TCO parity against ICEs will drive consumer adoption



Total Cost of Ownership B2B¹ (with FAME subsidy)



Total Cost of Ownership B2C²



- 1) Vehicle life 4 years, annual running 50K, 90% financing @12% interest, Charging cost 7/kWh, Resale EV30%, Resale Diesel, & CNG 40%
- 2) Vehicle life 5 years, annual running 10K, 80% financing @12% interest, Charging cost 7/kWh, Resale EV 20%, Resale Petrol 30%



EV penetration in India is well poised to witness sharp penetration and Tata Motors TATA MOTORS will plan for 20% penetration in 5 years



7	Product	 Expand portfolio of offering India specific products with different body styles and driving ranges (10 EVs by FY26) Transition to Modular Multi-energy platform from Conversion EVs
	Sales & Marketing	 Expand beyond existing micro-markets (100+ cities, 255 touchpoints in FY22) Strong focus on states with progressive EV policies Continue brand building for awareness creation and driving aspiration Increase options to access Tata EVs (e.g Subscription)
0 0	Capability building	 Drive deeper localization (localization of Tier-1 & Tier 2 components) Build center of competence
	Ecosystem Development:	 Expand Tata UniEVerse to offer holistic solutions to customers (Charging, financing, options to access TML EVs etc) Operationalising plan on battery reuse, repurpose and recycle





