



National Stock Exchange of India Limited Exchange Plaza, C-1, Block G Bandra Kurla Complex Bandra (E), Mumbai - 400 051

SCRIP CODE: ASHOKLEY

BSE Limited Phiroze Jeejeebhoy Towers Dalal Street Mumbai - 400 001

SCRIP CODE: 500477

Dear Sir/Madam,

Sub: Presentation

Please find attached herewith the Nuvama Investor Conference - Key Note Address presentation.

We request you to take the above on record.

Thanking you,

Yours faithfully, for ASHOK LEYLAND LIMITED

N Ramanathan Company Secretary

Encl.: a/a

Registered Office: Ashok Leyland Limited, No. 1, Sardar Patel Road, Guindy, Chennai - 600032, Tel.: 91 44 2220 6000

E-mail: reachus@ashokleyland.com | Website: www.ashokleyland.com

CIN: L34101TN1948PLC000105







India 2025 – Now More Than Ever Towards Sustainable Growth



Shenu Agarwal | Ashok Leyland





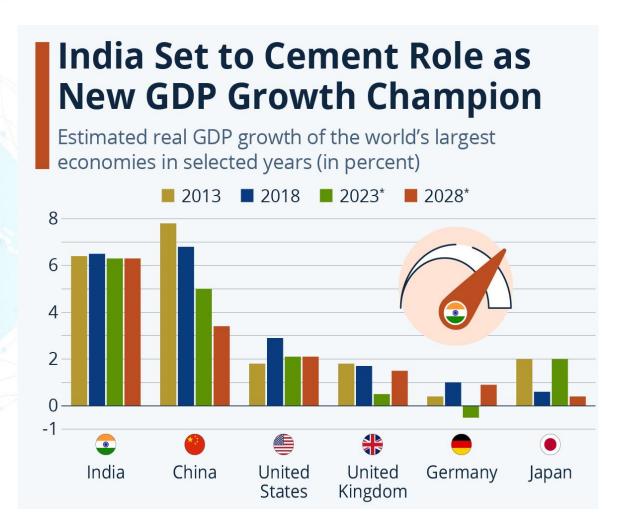


- Advantage India & Challenges
- > Sustainability in Growth Responsibility & Opportunity
- ➤ Alternate Energy in Mobility
- Ashok Leyland is changing itself to Lead the Change

Advantage India

TO MARZIL DOOR MANTH

The Projections are Positive & with Right Reasons



3rd Biggest Economy

Ahead of Japan & Germany

5 trillion economy by 2026

GDP growth projected above 6% for next 5 years in a row



Favourable Policies & Demographics

Large Young Workforce and Consumer Base





Friendly India

Favorable, neutral Policies
A trusted partner of key nations
Lead position in South Asia

Young India

Age Group 18 – 35 years, Now 600 million 65% under 35 years
Advantage will remain till 2056
1.5 million workforce added every year

Entrepreneurial India

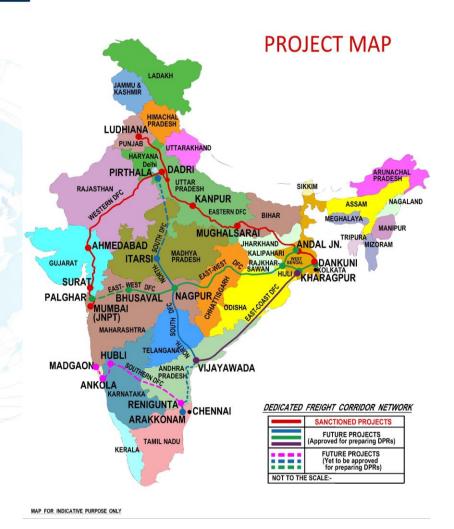
90k startups in 2022, from 100 in 2016



Capital Deepening ► Increase Productivity

Technology Infusion, Connectivity





Capital Infusion

10th largest FDI destination Government & Private Capex



Technology Infusion

BIFS, Healthcare, e-Commerce, Retail, Mfg IoT, Industry 4.0, Cloud, Digital Supply Chain



Connectivity

Bharat Mala (Road)

Dedicated Freight corridor (Rail)



Energy Security

Renewable energy investments



Challenges - Recognition by Indian Government



Productive Resources, Reskilling for AI, Improve Green

Reskill for Al



Employability as Productive Resources



Geo-political Developments



Sustainable Growth - Energy Security





Sustainability in Growth

India's 5 Commitments



500GW Non-Fossil Energy Capacity by 2030

50% Renewable Energy by 2030

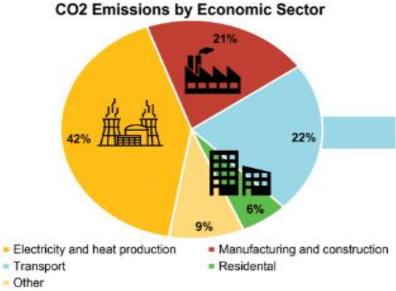
Carbon Reduction of 1 billion ton by 2030

Carbon Intensity Reduction by 45% by 2030

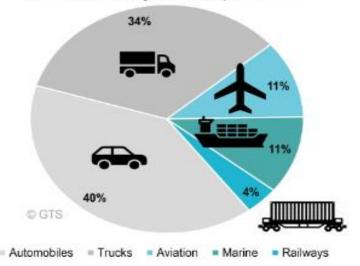
Net Zero Emissions by 2070

Mobility sector to play a big role here





CO2 Emissions by the Transport Sector



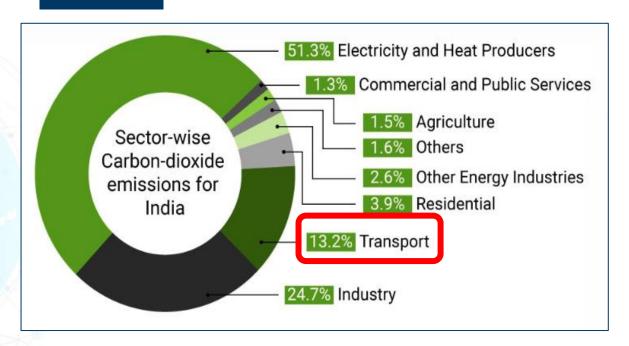


Pollution Contribution from Mobility

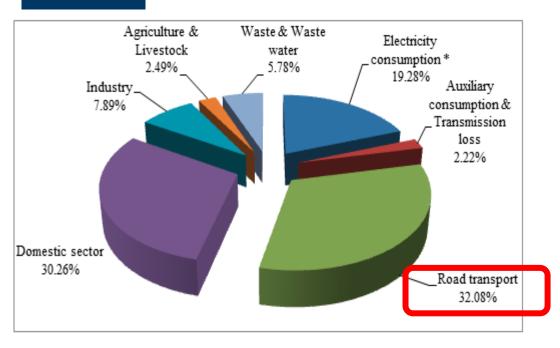


3rd Overall; Much More Significant in Cities like Delhi, Bangalore, Pune

India



Delhi



Move Fast to Alternate Powertrain Solutions

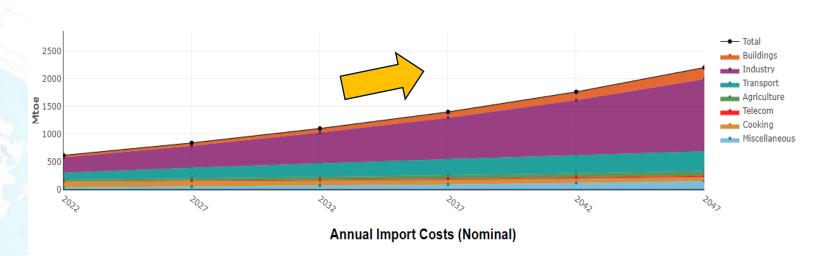


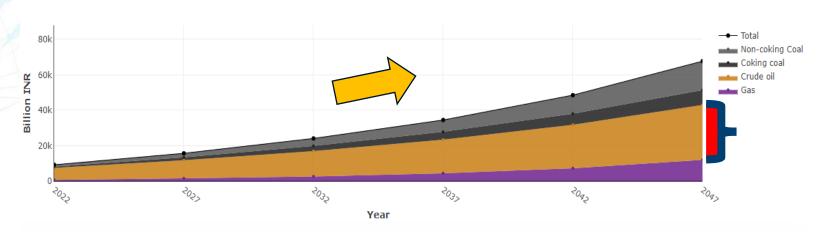
Another Trigger – India's Energy Security

High Import Bill - Huge Opportunity for Reduction









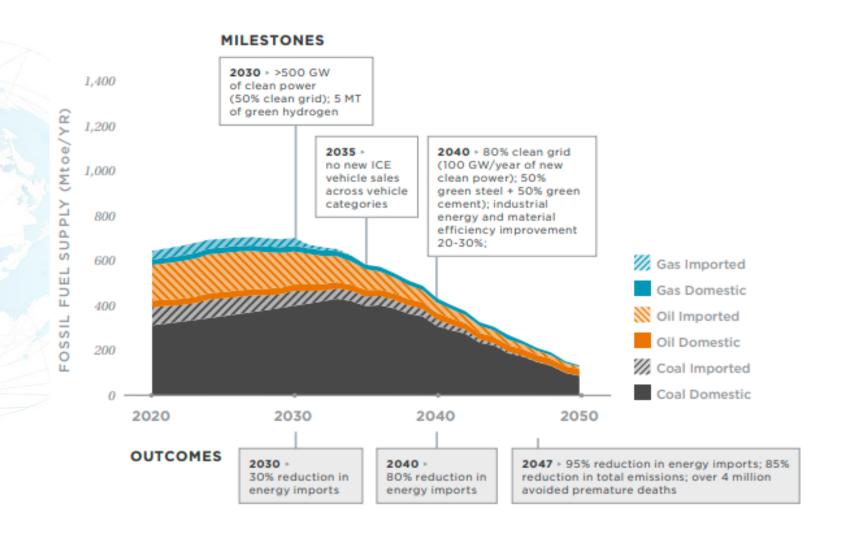
Move To Renewable Energy Sources



Two Challenges ► Two Solutions



Pollution & Energy Security ► Renewables & Alternate Powertrains



India 2050 Goals

Renewables

(95% Reduction in Energy Imports)

+

New Powertrains

(85% reduction in Total Emissions)

For Sustainability in Growth



Huge Opportunities - Avenues for Investment

Complete Value Chain yet to be Established in India



Wind Energy



Solar Energy



Green Hydrogen



Charging Infra



Lithium Deposits



Scrappage





The Hinduja Group - Positioned for Sustainable Growth

A Centenary of Entrepreneurship



Components



Chemicals

Banking & **Finance**

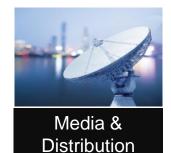


FOUNDED 1914





Security



VERTICALS

PEOPLE 20000+

Real Estate







COUNTRIES 38

Ashok Leyland - Hinduja Group Automotive Flagship



75 years of Mobility



World 2nd Largest Bus Manufacturer; India's 2nd Largest MHCV Manufacturer; Largest Mobility Solution supplier to Indian Defence

- 1948 Established
- 1987 Acquired by Hinduja / IVECO
- 2007 Self Reliance and Indigenisation Achieved (60th Year)
- 2011 Extended Product range with introduction of LCV
- 2020 Modular Platform of Trucks
- 2023 Alternate Powertrains Launched (75th Year)
- 2030 Carbon Neutral Operations
- 2048 Net Zero @ 100 (100th Year)









OUR VISION To be a Top 10 Global CV Player creating reliable and differentiated products and solutions, while delivering outstanding stakeholder value

INNOVATION AGILITY OUR **VALUES** TRUST CUSTOMER CENTRICITY Carried . **PARTNERSHIP**

Ashok Leyland: Key Differentiation - People





Homegrown Leadership

- More than 80% of Leadership Team is Homegrown
- More than 90% of senior management are Career employees



Engineering Competence

- More than 75% of population are Engineers
- Focussed Groups on Innovation & Future Technologies Multiple lps



years

Agile Workforce

 Focus on Diversity – Gender (48% fresh intake are women), Geography (10%) international GETs), All women-line at Hosur



Ashok Leyland: Key Differentiation – Technology



Reliance on Partnerships to Complete Self Reliance (60-70 years)

Multiple Alternative Power Trains
- Back to Age of Partnerships

2008

2013

2020

2022

2023



In-house Engines up to 8 Litre Capacity

ZU12



World-class
Driver Cabins



Modular AVTR
Truck
International
Emission Norms





EV Double Decker Bus



Homologated LNG Truck



H₂ ICE Trucks



H₂ FC EV Truck



MD15 Methanol Buses



M100 Methanol Truck

Ashok Leyland: Key Differentiation – Ecosystem Creation

Opportunity Enhancement into Allied Avenues



Electrification Technologies















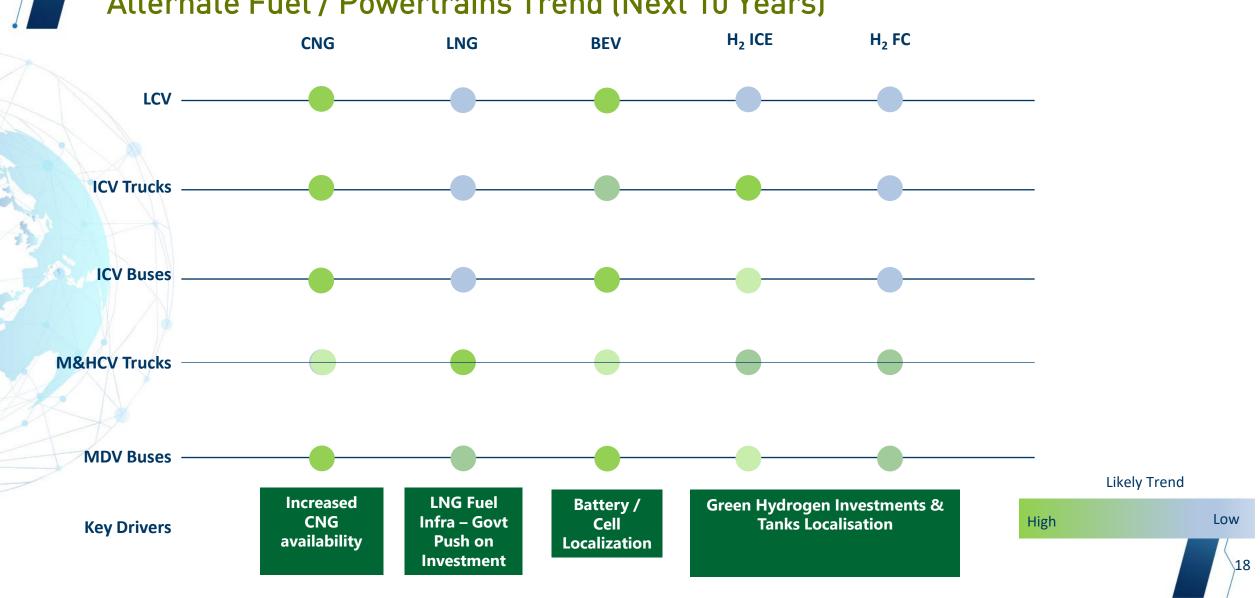
Centers of Engineering Excellence



Complexity & Huge Investments: Multiple Technologies for **De-Carbonization**



Alternate Fuel / Powertrains Trend (Next 10 Years)





Key Implications: Collaborations & Partnerships



Ensuring Readiness & Speed to Market

Partners for Technology Readiness













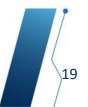
Partners for Market Deployment













Key Implications: Re-Skilling / Skill Enhancement



Gearing up the Workforce for the Future Needs

Key Skills Targeted



Performance, FE, & Emissions Compliance



BMS, FC, Motor Controls



Software development



Thermal, FE, Multiphysics simulation for New Energy options.



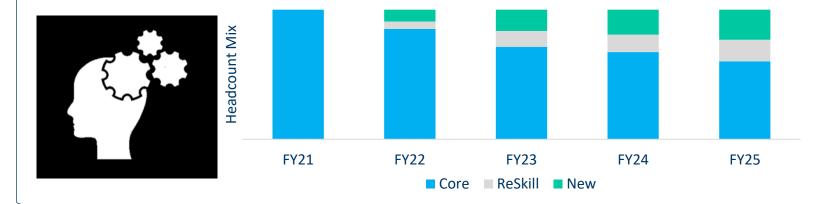
Light Weighting



Materials

Telematics, Prognostics, V2X, ADAS. OTA, Digital Ecosystem

Reskilling & New Recruitment



Institutional Collaboration



- Research Funding
- Joint Development
- Sharing of Test Facilities
- Customised Courses to Reskill

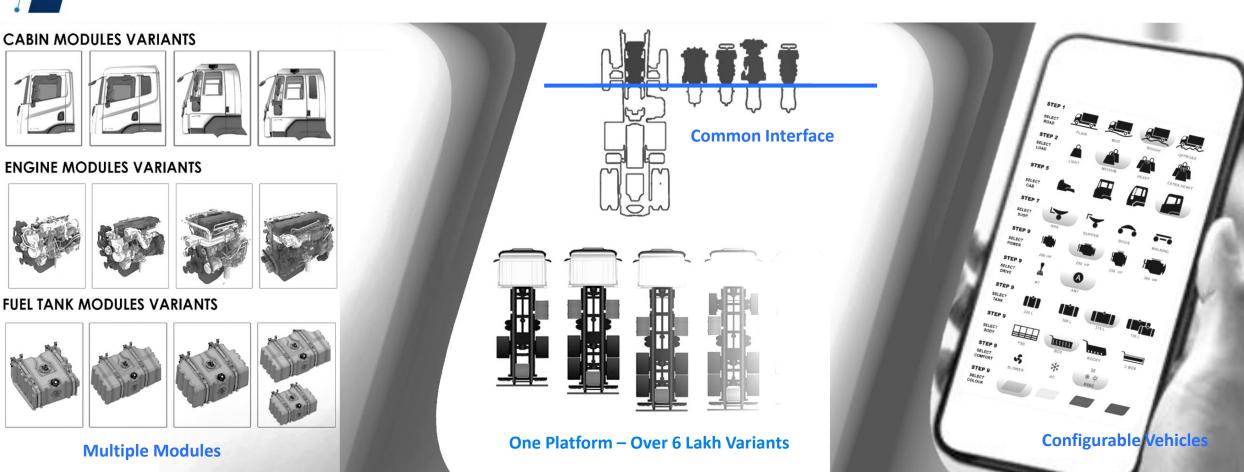




Key Implications: Modular Architecture for Multiple Technologies



Only OEM in India; started work in 2016





Key Implications: Modularity – A Unique Advantage



Fastens our transition to Alternate Energy Propulsion



Ashok Leyland - New Energy Portfolio



Will be ready in next 1.5 years – across fuel types, across segments

	lable rogress			\Diamond			H ₂	+ -
M&HCV Trucks			Diesel	CNG	LNG	H ₂ ICE	H ₂ FC	BEV
Marcy Trucks	AVTR	OTHER MODELS						
Long Haul Trucks	AVTR	OTHER MODELS						
ICV Truck								
LCV Goods	E-Comet	BOSS						
LCV GOODS	Dost	Bada Dost Pal	rtner					
MCV Bus	Viking	ULE / EiV12	/22					
Long Haul Coach								
ICV Pro-	13.5 m	15 m						
ICV Bus	Oyster	Sunshine						
LCV Passenger	Mitr	✓ EiV7						

Alternate Powertrains

Stepping Further

Other Technology Advancements - For India & the World



Flywheel Hybrid



✓ Energy recuperation and Powertrain downsizing.POC in progress

Linear Powertrain



 Complementing battery electrification within hybrid powertrains

Predictive Maintenance



✓ Actionable Insights using vehicle data to enhance vehicle uptime

Edge Computing

Analytics

Data /



✓ Real-time data processing & handling voluminous vehicle data

Advanced Driver Assistance Systems



✓ Exploration in progress – AEBS, LDWS, DDAS

Autonomous Vehicles

<u>ai</u>privers.

Vehicles tailored to meet the needs, particularly in the ports, mines and logistics sector

Autonomy

Accelerated Development



 ✓ Faster , Optimized Designs to meet weight challenges in alternate propulsions

Faster Learning

4

Generative



✓ Generate virtual environments and simulate real-world scenarios, allowing AVs to adapt to regional terrains

Showcasing the Future – Auto Expo 2023

CNG, LNG, H2 ICE, H2 FC, BEV Trucks













Not concepts assembled at Expo Grounds, But Fully Operational Future Range



Feb2024

15 YEAR'S

First BOSS 14T EV ICV Delivered to our First Customer





TCO Challenge for Faster Adoption

Battery Electric Vehicles



Major Customer Engagements

AVTR 55T 4x2
Electric TT



Major Applications

- Port
- Steel/Cement
- Coal

TCO Comparison vs Diesel

Capex: 3X

(Battery 300kWh for 180kms

range)

Opex per km: 0.5X

(Diesel @95/- and Electricity @9/-)



BOSS 14T Electric ICV



Major Applications

- Parcel/ecommer ce
- Intra city
- Cement

TCO Comparison vs Diesel

Capex: 4X

(Battery 200kWh for 230kms range)

Opex per km: 0.56X

(Diesel @95/- and Electricity @9/-)







TCO Challenge for Faster Adoption

Vehicles with Gaseous Fuels



Interventions required for Faster ROI

- Cell & Pack localization / Import duty waivers
- LNG / H2 Scale Production & Distribution
- Push for investments in H2/LNG Tanks
- Preferential lending norms, leasing models
- Battery financing solutions
- Road tax / Toll charge / Charging cost / Interest rate concessions
- Additional GVW to offset payload loss

Summary

AGINARZIL DOOR WANTED

Towards a Transformed India

- > India's potential to grow more than any country in the world
- > Strong focus required on improving employability of the young abundant work force
- > With growth India has also committed to reduce pollution towards Net Zero by 2070
- In transportation, Energy security & Pollution are complementary and can be solved by using Renewable energy and Alternate Powertrains
- > OEMs like Ashok Leyland especially are in advanced stages of development and will manage the complexity, with support from other conglomerates
- ➤ A Lot needs to be done for Faster Adoption



