

Gaseous fuels

-the road ahead

4th Annual NGV India Summit
May 9-10 , 2019
New Delhi

Suyash Gupta - Indian Auto LPG Coalition



LPG
EXCEPTIONAL ENERGY



STAKEHOLDERS





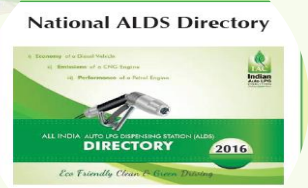
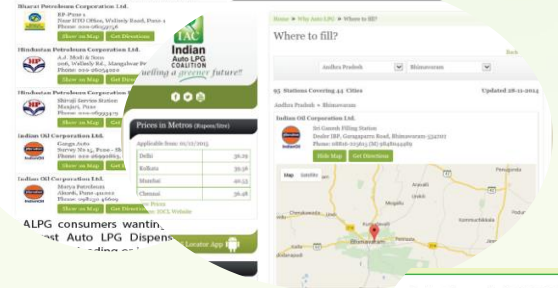
A unique coalition with all the critical stakeholder groups working together closely





The application has been launched on the Android platform to display the location of ALDS stations.

"Where to fill" section on IAC Website integrated with Google Maps



The IAC Website now features a link to the National ALDS Directory which can be downloaded in PDF format. The directory is comprehensive and intuitive and





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Voice

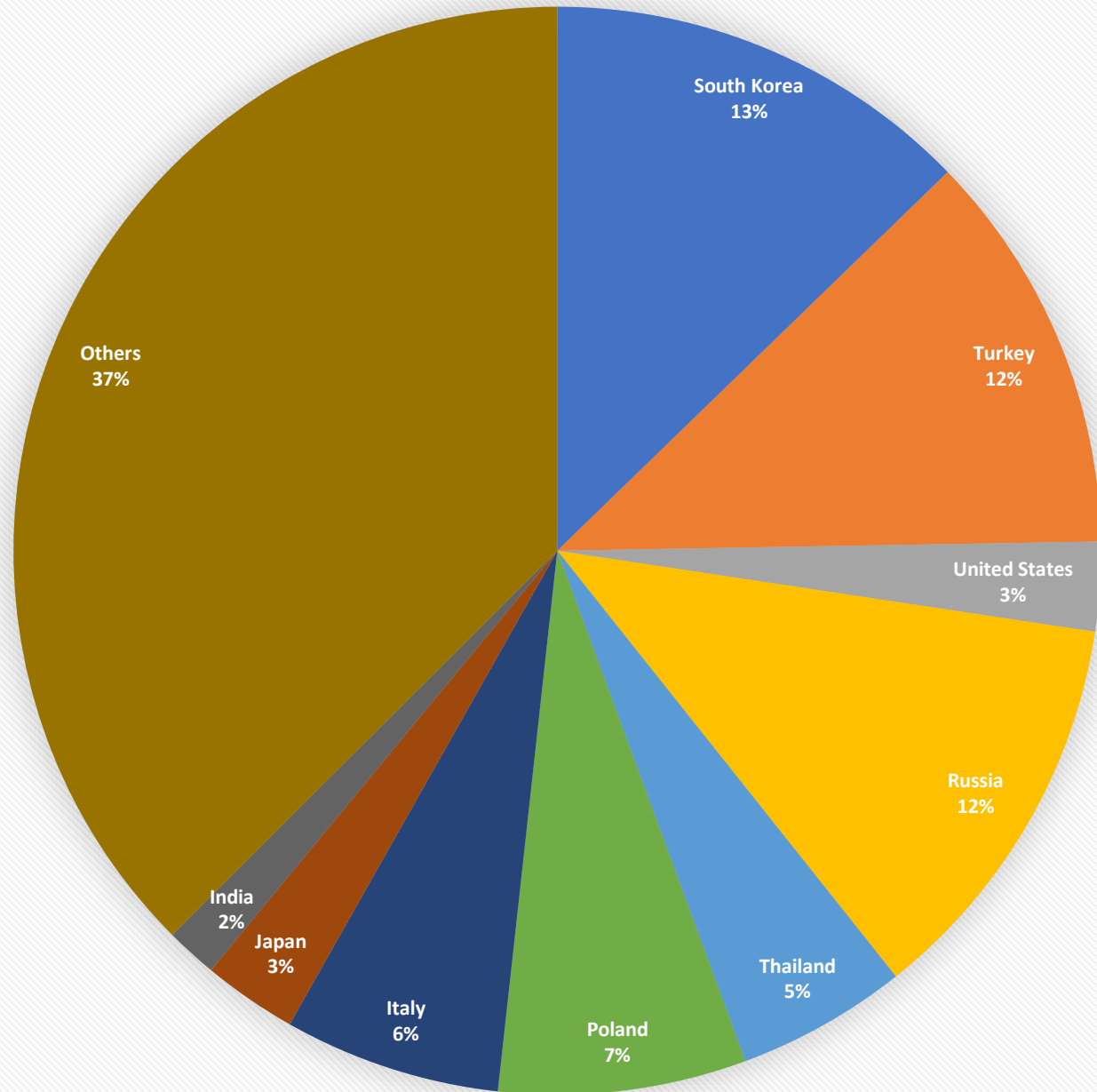
- Member, Core Autogas group, World LPG Association
- Members
 - Central Motor Vehicle Rules –Technical Standing Committee (CMVR-TSC)
 - Standing Committee on Emissions (SCOE)
 - Bureau Of Indian Standards (BIS).

Key Global Autogas Consumption 2018

- 26 million tonnes
- 26 million vehicles
- 78000 retail sites

South Korea, Turkey,
Russia at 3 million
tonnes plus

40% of all private cars in
Turkey, run on LPG
Autogas



AUTOGAS IS AVAILABLE

**7 OF THE
10 LARGEST
CAR MANUFACTURERS
IN THE WORLD PRODUCE
LPG POWERED CARS**



**26
MILLION
VEHICLES**

AROUND THE GLOBE



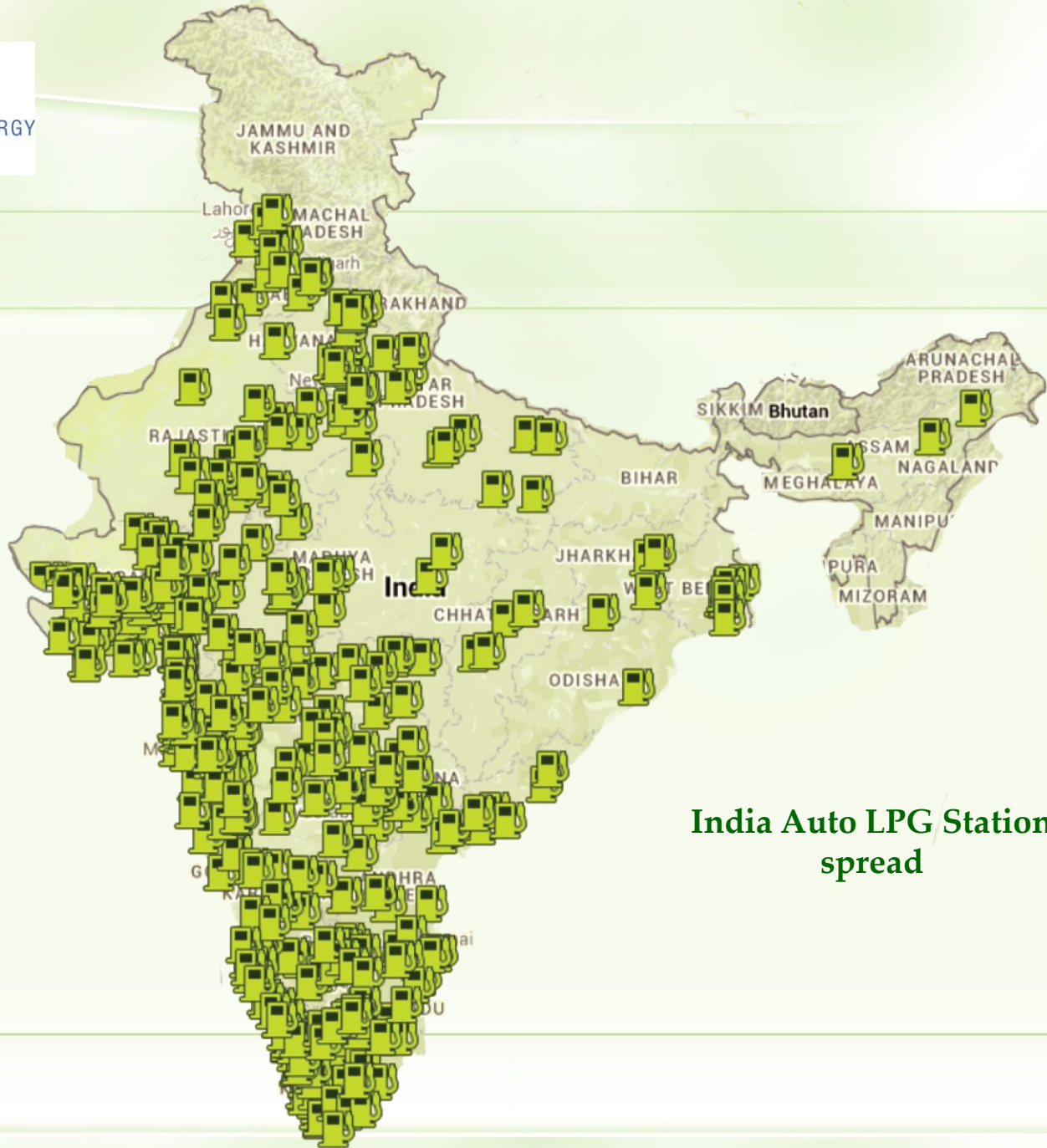


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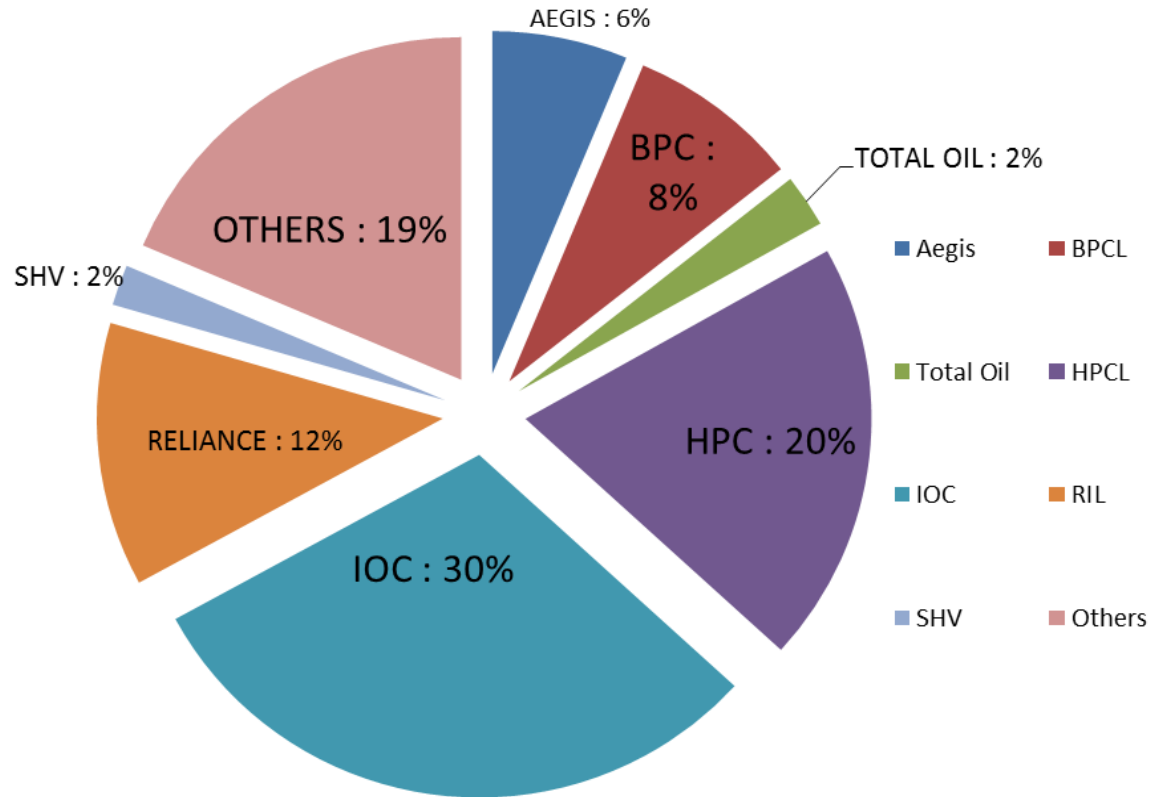
**Indian
Auto LPG
COALITION**
Fuelling a greener future



**India Auto LPG Station
spread**



1200+ STATIONS, 500+ CITIES COVERED

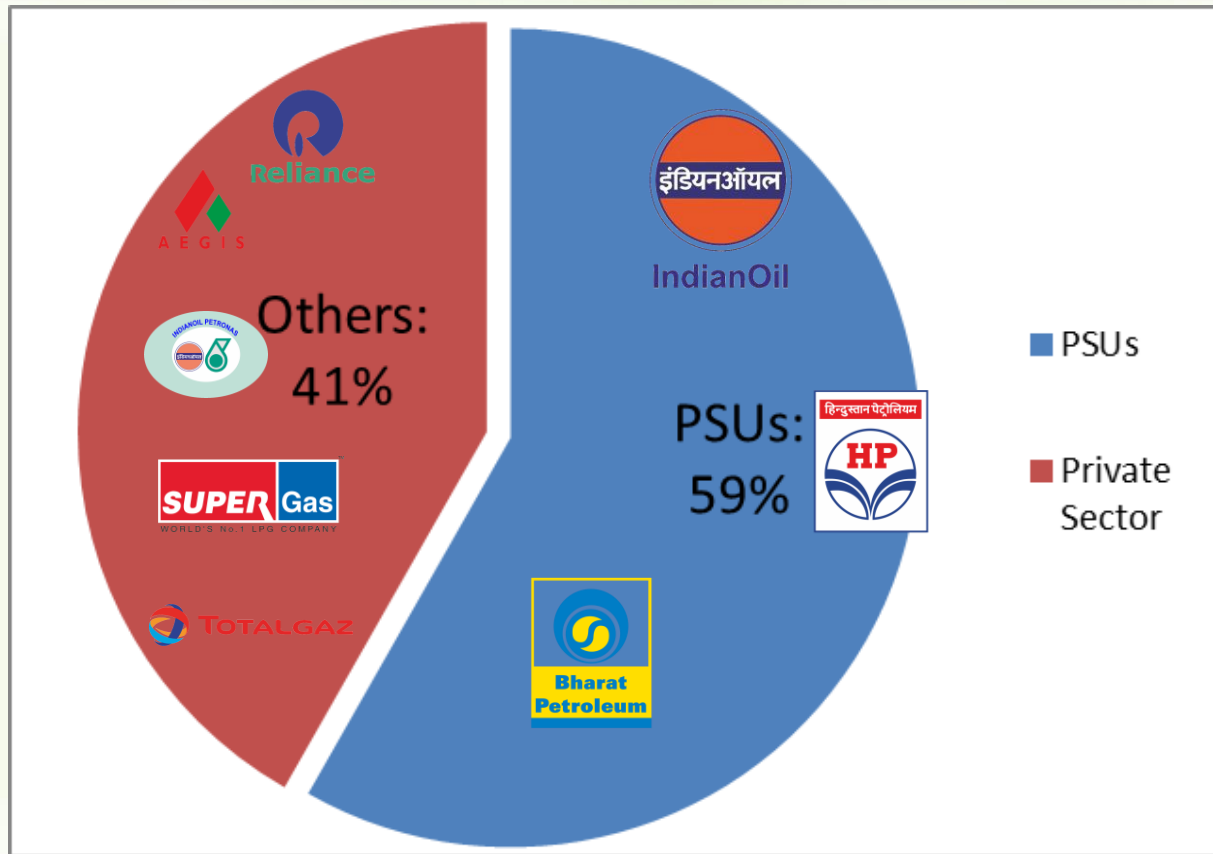




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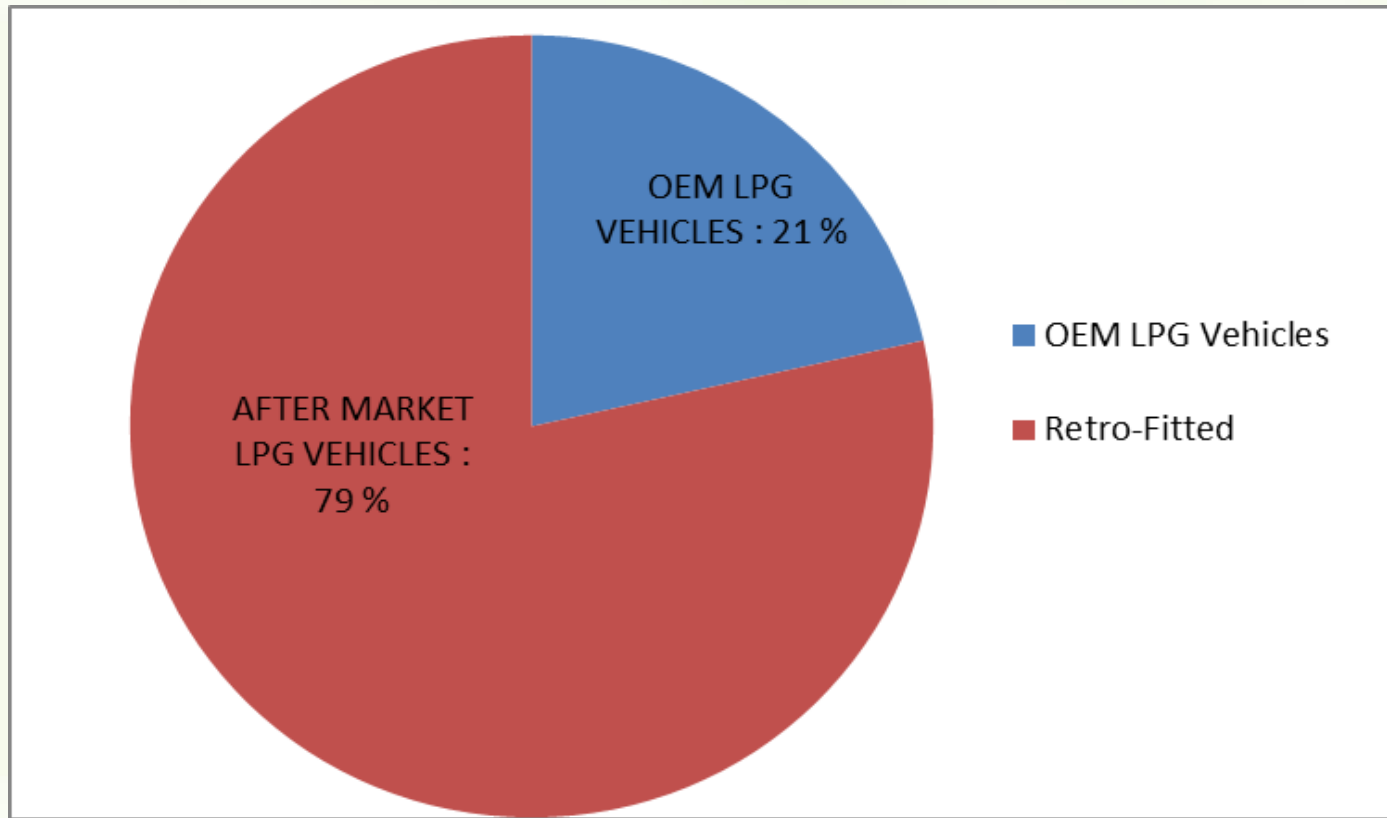


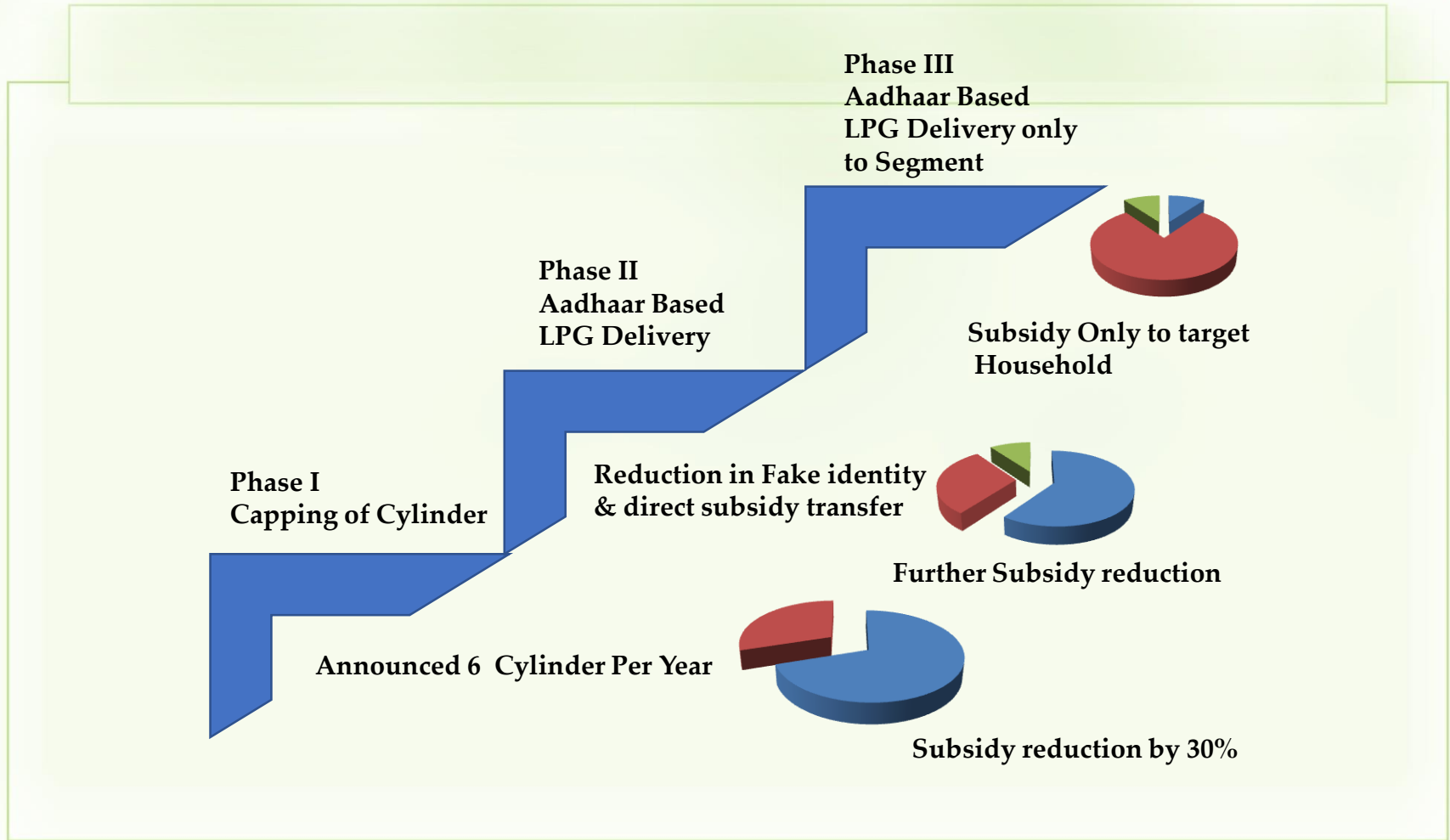
AUTO LPG : STATION SPREAD. PSUs LEAD.





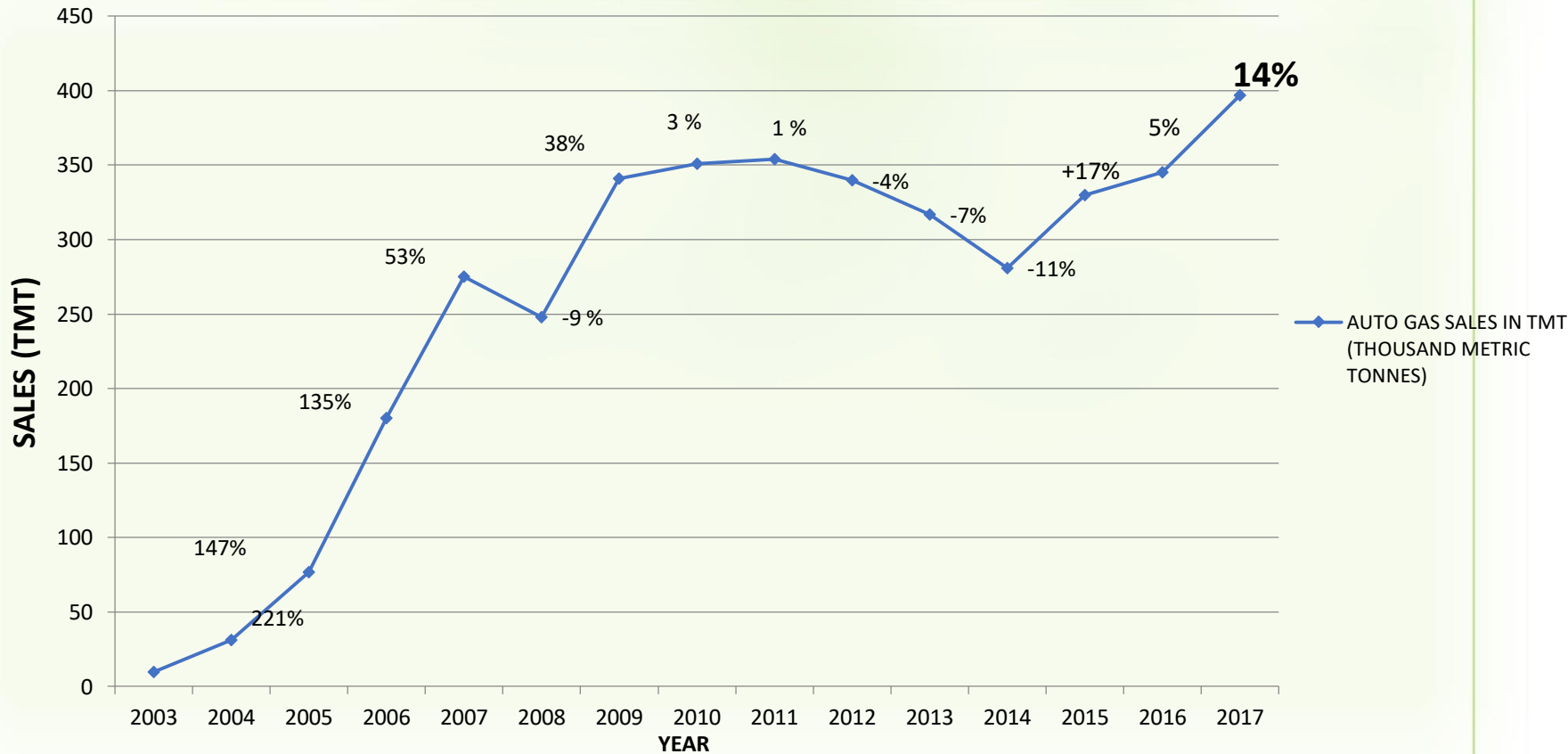
Fleet Size, 2.5 m+ ? Aftermarket dominates







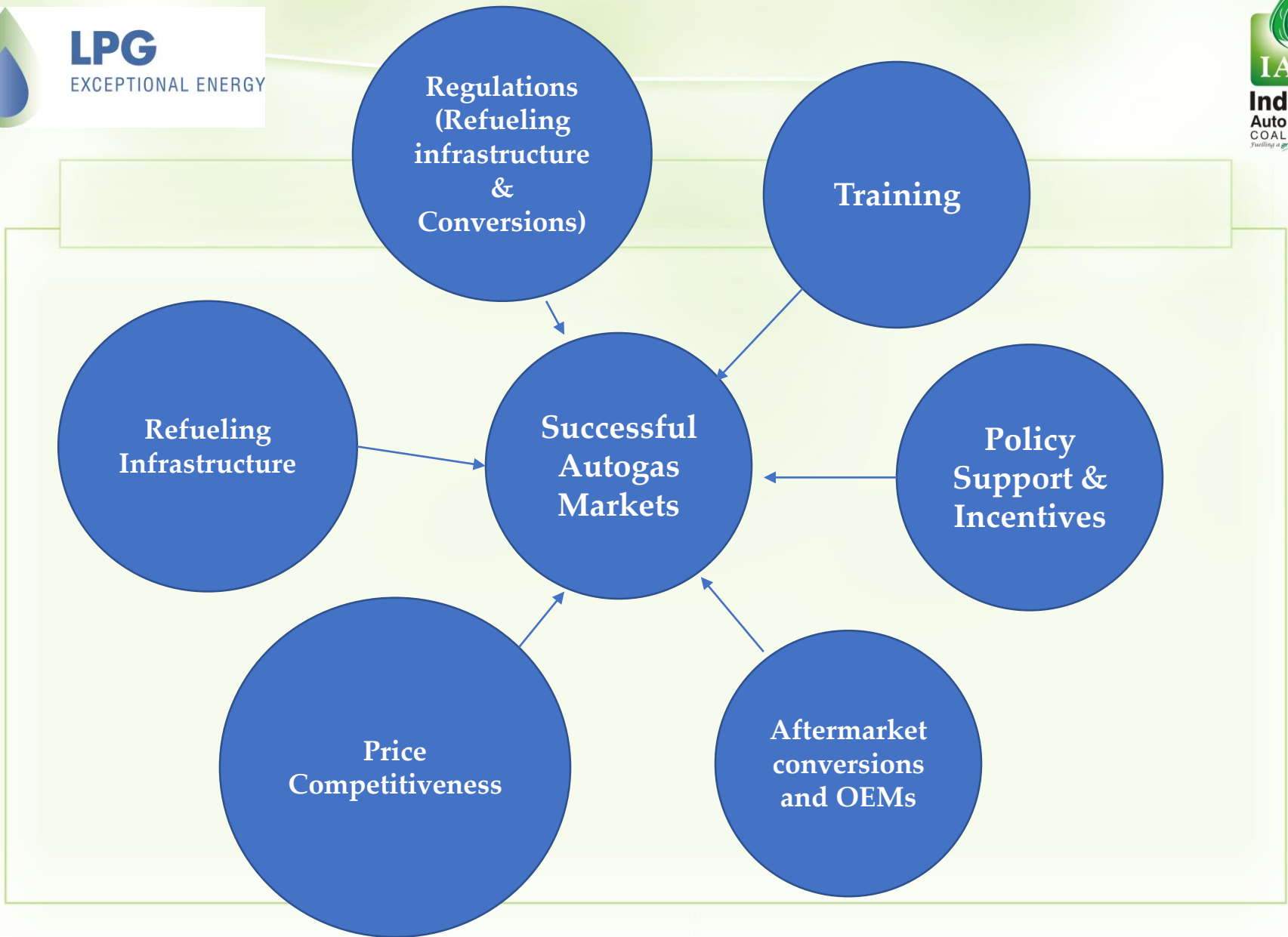
Auto LPG volumes





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What's changed for India...

- Lower international prices have ensured a higher delta with Petrol - maintained at almost 50%
- MS and HSD price decontrol resulted in Auto LPG being cheaper than diesel in running costs



Why Auto LPG..???

- The 'Auto LPG' Value proposition
 - Wide Availability. 500 + Cities covered..
 - High Petrol – Auto LPG Difference..
 - Cheaper than Diesel
 - Auto LPG is a low hanging fruit. Auto LPG Infrastructure can be set up almost immediately.

 - Lower Costs of Infrastructure and conversion
 - Cost of an ALDS is just at Rs 40 Lacs
 - Cost of LPG conversion kit is about Rs 20,000 for 4 wheeler



What's changed Globally...since 2014??

- The Effect of US Shale
 - From being world's largest LPG importer, USA, today is the world's largest LPG exporter
 - Global glut of more than 10 million tonnes in 2015
 - Excess of almost 20 million tonnes in 2017
- Continued pressures on global LPG pricing
- From a high of more than \$1200/t, LPG rates have been consistently around \$500/t



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The road ahead...



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LPG

CNG

Euro 6
Fuels



Electric

Ethanol

Methanol

Bio
Diesel



The EV narrative...

- Government Push...
 - Policy intent to push all new vehicle sales to EVs by 2030, though rhetoric has been consistently brought down...
 - FAME programme not having been able to catalyze early adoption..
 - Though some reports indicate that India will cross the 25% mark only by 2040, rather than 2030, disruptions like that in the adoption of Solar Power is possible.
- Issues remain...
 - Ad hoc policy support
 - Lack of access to reliable charging infrastructure
 - Inability of discoms to invest in charging stations for poor fiscal health.



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The EV narrative...

- Are EVs really clean...at present?
 - 67% electricity in India produced from fossils...
 - Every unit consumed shall only add to emissions...
 - Moving the emissions from the cities to the power plants...
- FAME II funding
- Rewarding Transport Consumption, to mostly convert to EVs in 10-12 years...?



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Where can the CNG and Auto LPG industry work together..?

- **Addressing the EV narrative.. – with Policy makers.**
- **OEM Engagement – Addressing EV narrative issues**
- **Type Approval Validity**
- **On Line Kit Certification – Ensure Quality Conversions**



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Thank You!!

Suyash Gupta
Indian Auto LPG Coalition

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