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Natural Gas Market: Current Scenario

- **❖** Share of Natural Gas in Primary Energy Mix : 6.2%
- ❖ Govt. aims to increase share of NG in energy basket to 15% by 2025
- ❖ Consumption Natural Gas in FY 18-19 : ~149 MMSCMD (Less than consumption of 162 MMSCMD during 2010-11).
- ❖ Gas consumption in CGD sector for Mar'19 : ~25.38 MMSCMD [Dom. Gas ~15.22 & R-LNG ~10.16 MMSCMD] : 17.89% of Total Natural Gas consumption
- **❖ LNG Import in FY 18-19 : 27015 MMSCM (2.6% increase compared to FY 17-18)**



Till 8th Bidding Round (2017)

- 35 Entities, 92 GAs, 23 States
- 42.8 Lakhs DPNG Connections
- 1424 CNG Stations
- 27 Lakh vehicles



- 10000 CNG Stations
- 2.4 Cr. CNG Vehicles
- 4.5 Cr. DPNG Connections



CGD Sector: An Overview

Status After 10th Bidding Round

Planne

Existing

GAs Co

- 46 Entities-402 Districts-228 GAs
- 53% India's Area, 70% Population
- 50.43 Lakhs DPNG Connections
- 36869 C&I Connections
- 1730 CNG Stations

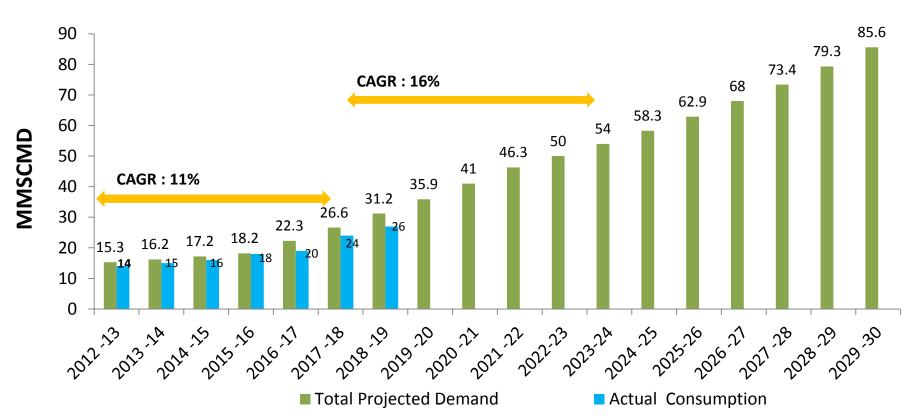
Part District Covered Under Tenth Round

33.47 Lakhs CNG vehicles

0 135 270 540 810 1,080 Kilometers



Cumulative CGD NG Demand Projections 2012-13 to 2029-30



Source: pngrb.gov.in





GAIL & GAIL Gas: At A Glance

GAs after 10th Bidding Round Other details as on 31.03.2019 (PPAC)

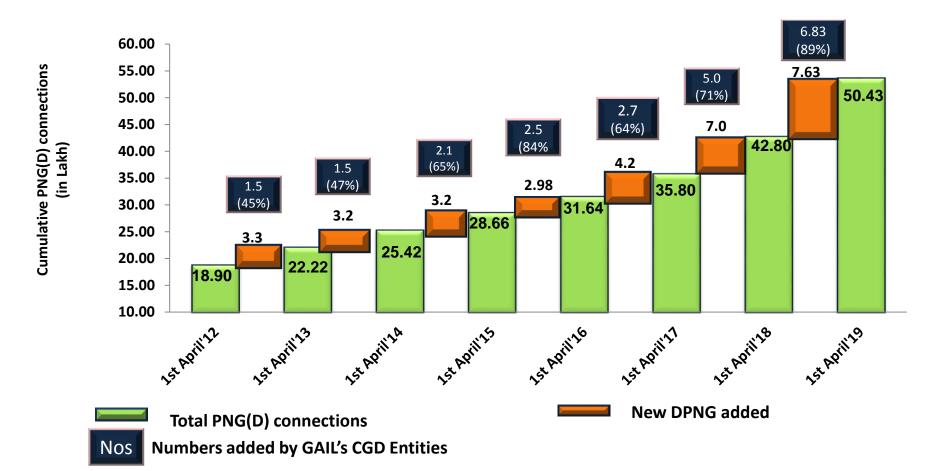
Particulars	PAN (India) (Numbers)	GAIL & its JVCs	GAIL Gas & its JVCs	Total (GAIL + GAIL Gas)	
		Numbers	Numbers	Numbers	% of Total
GAs	228	38	23	61	27%
DPNG Connections	50.43 Lakhs	28.25 Lakhs	3 Lakhs	31.25 Lakhs	62%
CNG Stations	1730	1056	84	1140	66%
Industrial	8823	2276	578	2854	32%
Commercial	28046	7522	2716	10238	37%
CNG Vehicles (Lakhs)	33.47	21.19	1.04	22.24	66%

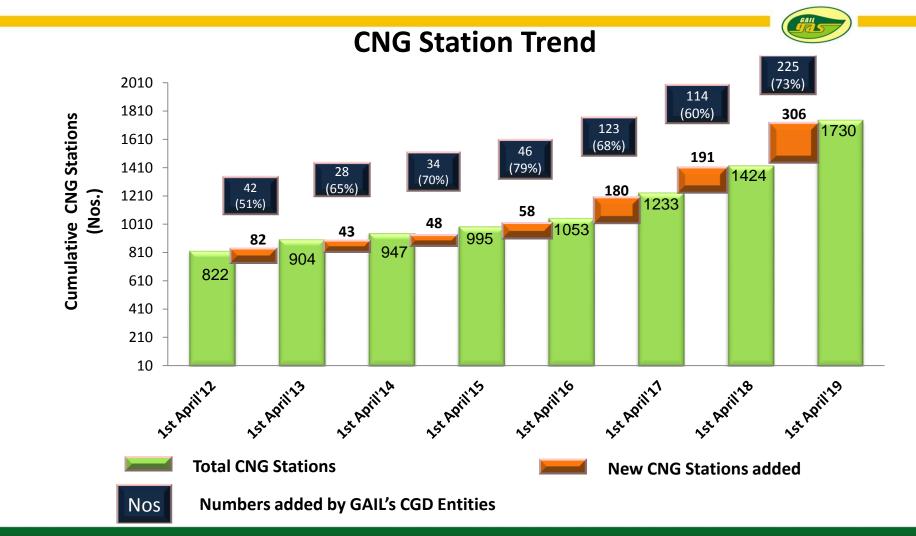
Achievement in FY 2018-19 :

- **DPNG Connections**: GAIL & its JVCs: 5.62 Lakhs; GAIL Gas & its JVCs: 1.21 Lakhs; **Total: 6.83 Lakhs**
- > CNG Stations: GAIL & its JVCs: 188; GAIL Gas & its JVCs: 37; Total: 225

Domestic PNG Trend

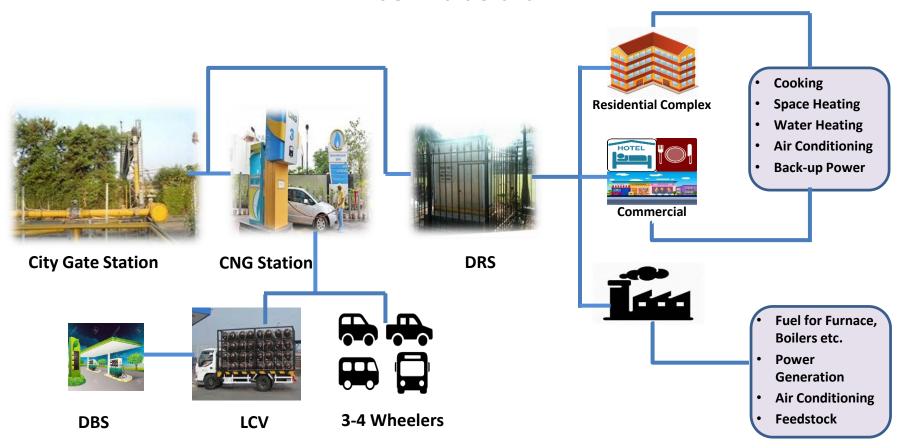






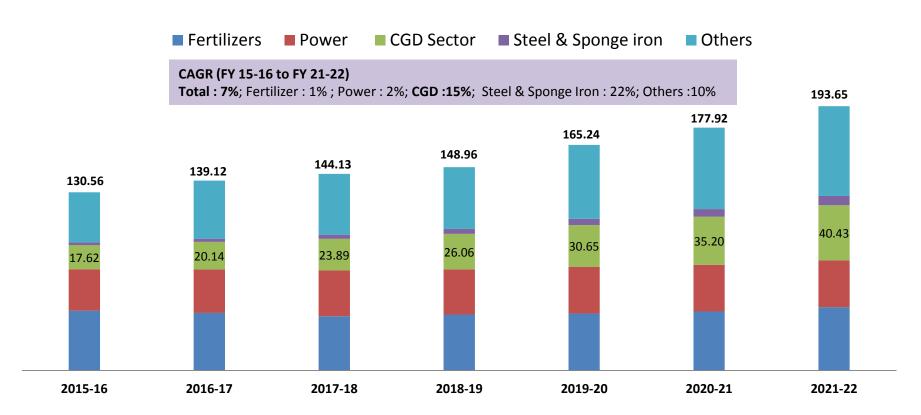


CGD Value Chain





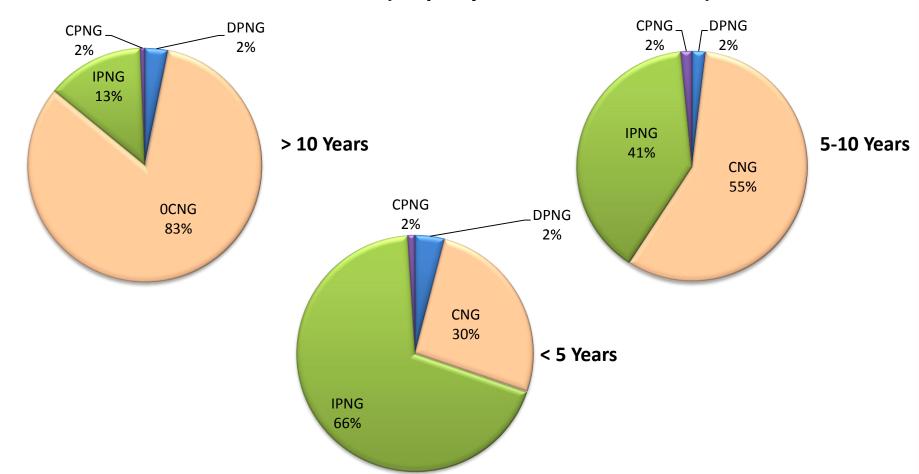
Sectoral Demand Projection (In MMSCMD)



Focus of Gol driving consumption in CGD Sector

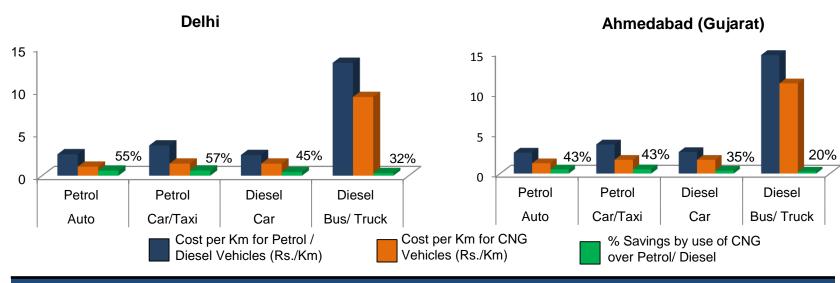


Sales Distribution (As per year of Authorization)





Cost Economy of CNG over Petrol / Diesel



Particulars	NCT of Delhi	Gujarat	
No. of Registered Vehicles (Excluding 2 Wheelers)	~37 Lakhs	~50 Lakhs	
No. of CNG run vehicles	10.65 Lakhs	9.23 Lakhs	
No. of CNG Stations	482	545	

Source: PPAC for CNG Stations & CNG vehicles; As on 01.04.2019 No. of registered vehicles as on 31.03.2015: http://www.mospi.gov.in/Prices as on 29.01.2019 considered for cost per km



Investments planned in Gas Sector



Gas Pipelines

Rs. 70,000 Cr.

- Existing pipeline length: 16877 KM
- Planned for national gas grid: 30000 KM



Gas Based Fertilizers

Rs. 30,000 Cr.

- 4 revival units
- 1 expansion unit
- 1 greenfield unit



City Gas Distribution

Rs. 70,000 Cr.

- 228 GAs awarded
- 7 cities under Urja Ganga Project

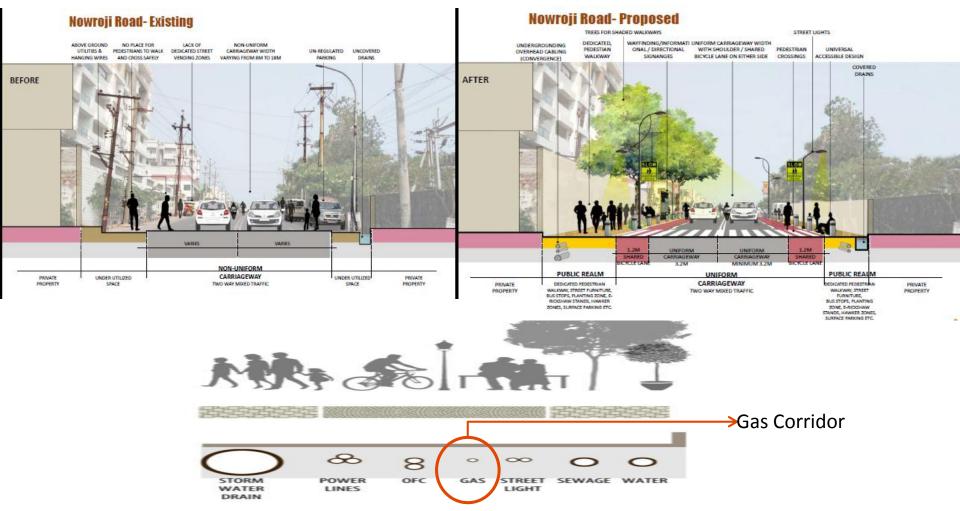


Gas Import
Infrastructure

Rs. 20,000 Cr.

- Existing gas import capacity: 30 MMTPA
- Enhancement up to 50 MMTPA

Rs. 200,000 Crores of investment planned in Gas Sector





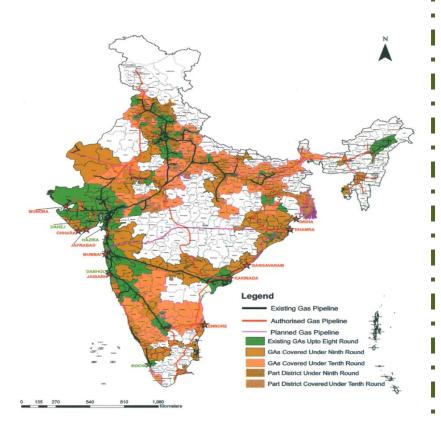
SATELLITE LCNG STATION AT BHUBANESWAR

India's First
Satellite
LCNG Station





Enablers: Increasing NGV Foot Print



Demand Creation

- CNG Stations : Being Set up Aggressively
- Affordability to be ensured (Delhi, Gwalior)
- Price varies from Rs.45.70/Kg to Rs.68/Kg

Administrative Issues

- Mandating CNG
- Phase-wise Ban on Diesel run Vehicles where GA is declared
- CNG Training & Research Institute

Fiscal Incentives

- Reduction of taxes on OEM fitted CNG vehicle
- Abolishing excise duty of 14% from CNG

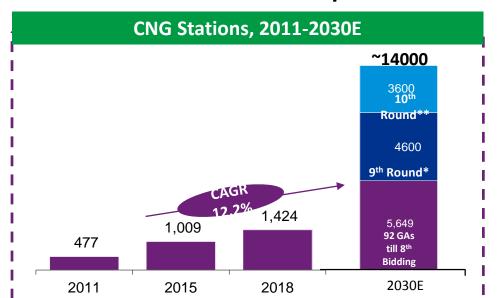


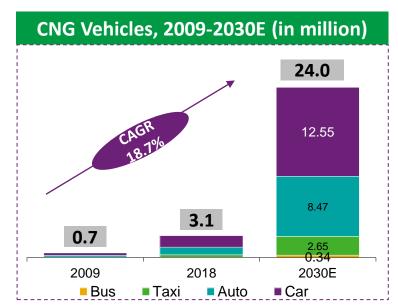
Support Provided by Central / State Govt.

- Allocation of Domestic Gas to CGD sector under no cut category
- Public Utility Status granted to CGD Projects
- Supply of domestic gas to Non Domestic Exempted Category (NDEC)
- **Timely Permissions and Exorbitant Charges**: MoP&NG has taken initiative to sort out the issues faced by CGD entities with various State/Local authorities.
- Piped gas supply in all smart cities MoUD has advised all the States / Union Territories to ensure provision of piped gas supply in all smart cities
- Ministry of Defense issued guidelines for use of PNG in its residential areas/unit lines
- Non-mandating DM NoC for setting up CNG stations at existing OMC ROs
- Nodal officers appointed by most of the states for time bound permission to CGD entities
- 0% VAT on CNG in Delhi, 5.25 % in Haryana; UP has reduced VAT from 14.5% to 12.5% on CNG and 26 % to 10% on PNG



India is poised to witness a CNG Revolution





- Over **10,000 new CNG stations** to be set up in next 10 years
- CNG vehicles to increase drastically over the period of 2018-30 owing to increasing environmental concerns and government push to promote CNG

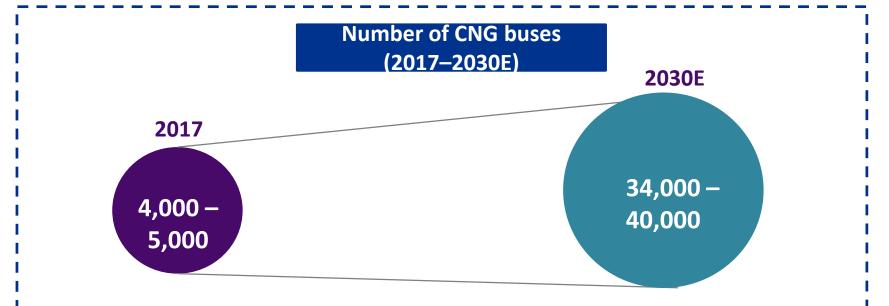
Source: KPMG Study

^{*}Committed CNG stations across 86 GAs under Round 9

^{**}Estimated for 50-60 GAs



Huge market for CNG buses in India



With expansion of CGD network in new states/districts and increasing focus of government to convert diesel-petrol vehicles to CNG, ~0.34-0.40 lakh state transport buses may switch to CNG

Source : KPMG Study

Current Challenges



- Launch of Electric Autos / Cars & Hybrid Cars
 - Need standardization of Batteries
 - PESO approval "Not" granted for co-locating EV Charging facility with CNG dispensing facility
 - Minimal infrastructure (Battery Storage, Charging Stations)
- Limited models of factory fitted CNG cars.
 - Major OEMs manufacturing CNG fitted Cars: Maruti, Hyundai, Ford
 - Discussion being held with Hyundai & Maruti to launch more variants of CNG cars
- Low price of Furnace Oil
 - Banning of Furnace Oil by Court / Pollution Control Board
- Very high Restoration Charges and Permission Charges
- Non-Uniformity in Taxes in different states & Exclusion from GST
- Availability of domestic gas



Unique Dichotomy

- * Transportation Sector: Electric Vehicles vis-à-vis CNG/Petrol/Diesel Vehicles
 - ✓ Government's Mass-Scale Thrust on EVs & Solar Power.
 - ✓ Plans to add ~200 CNG Stations every year (Investment by CGDs ~Rs.1000 Cr.)
 - √ Adoption towards BS-VI fuel norms by 2020

(Investment in Refineries ~Rs.60,000 Cr.; Automobile Companies : ~Rs.40,000 Cr.)

- ❖ Industrial Sector: Polluting Fuels vis-à-vis Clean Natural Gas
 - ✓ **Polluting Fuels** like Coal, Naphtha, FO and Pet coke are **more affordable** making customer's preferable choice in absence of clear mandate (*SC's Order banning FO and Pet Coke-Positive Step*)
 - ✓ Natural Gas does not get Input Tax Credits being out of GST ambit unlike Naphtha, LPG etc.



Conclusion

❖ Clear and un-ambiguous policy framework for share of Natural Gas in Energy Basket (15% by 2025).

❖ Natural Gas to be brought under ambit of GST

❖ Working committee involving members from Power, Oil & Gas sector, Coal and Heavy Industries to prepare a roadmap for co-existence of all sectors



Thank You