





Session - 4

Integration Of Electricity & City Gas Distribution (CGD) Utilities



Presented by
Raman Chadha,
Chief Executive Officer,
GAIL Gas Limited



Electricity vis-à-vis City Gas Distribution in India

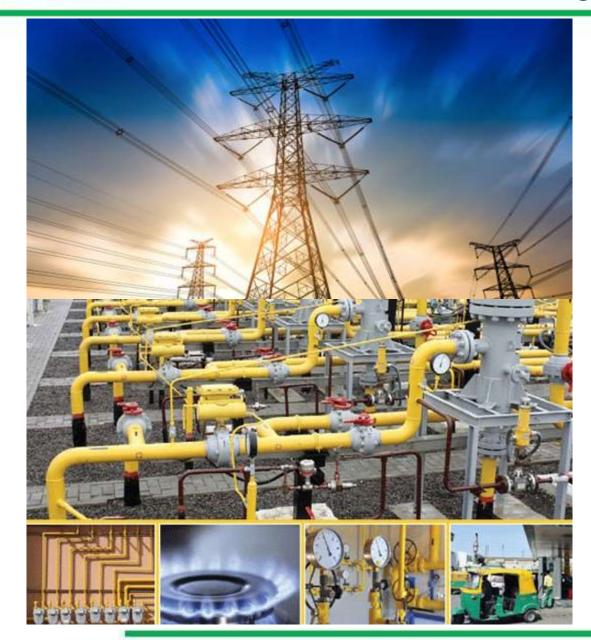


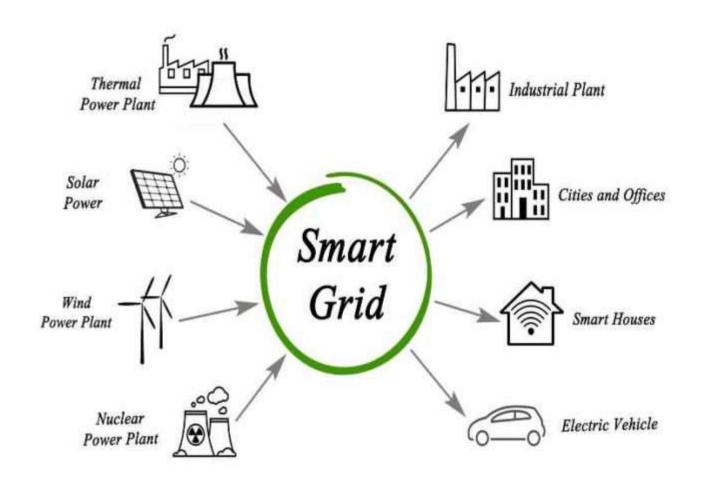
City Gas Distribution	Electricity Distribution
	Electricity Act enacted in 2003.
PNGRB Act enacted in 2006	Before that, the sector was guided by The Indian Electricity Act, 1910 and The Electricity (Supply) Act, 1948 and the Electricity Regulatory Commission Act, 1998.
230 Geographical Areas comprising 402 Districts spread over 27 States / UTs covering 70% population. Further under 11 th Round CGD Bidding, 65 more GAs (209 Districts) offered by PNGRB for bidding.	100% coverage relative to 2011 census figures for total number of villages in the country (Source: Energy Statistics India 2021, MOSPI)
81 Lakhs Households, 3370 CNG Stations	~24.12 Crore Households



Smart Grid









Synergy between DISCOMs and CGD Companies



- 1. New revenue streams, including market opportunities for the new demand generation (Tailor made energy offerings)
- 2. Planning and development of utility corridors
- 3. Sharing of infrastructure (Office set up, After Sales Service / Support Team, Billing, Customer Care Centre etc.)
- 4. Gas based power plants
- 5. FUEL Cell Based power Generation on Natural Gas



Sharing of Customer Data and GIS Maps

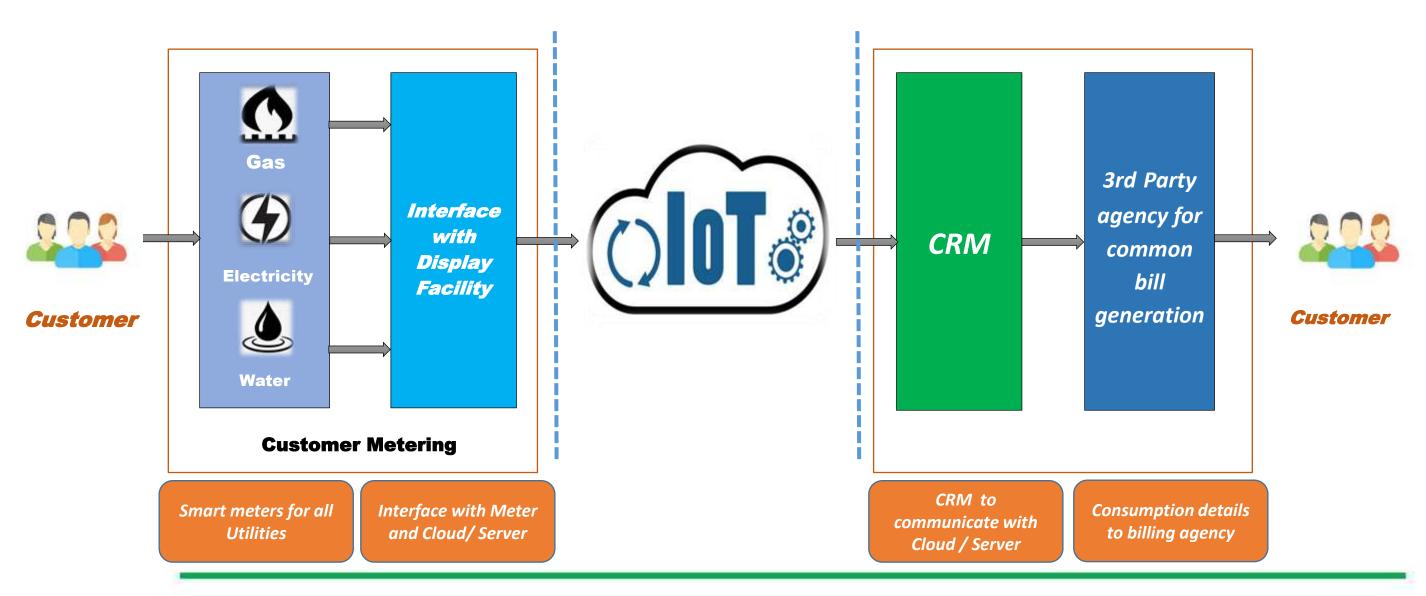


- Identification of common customers & prospective customers
- Identification of defaulters & high value customers
- Detecting and reducing unbilled units of utility being provided
- GIS maps enabling CGD entities to have idea about household density & thereby helping in better planning.
- Easy Traceability in case of mishaps, leakages, etc.
- Useful in planning laying of Utilities in common Corridors & planning/ augmentation of Road Network (Ex.: water supply and sewerage lines, telecom cables, gas pipe lines etc.)



Common Bills for Electricity, Gas & Water







Collaboration for Smart Metering for Electricity and Gas



- Operational Benefits: Improves the accuracy of meter reading, energy theft detection and response to outages, while eliminating the need for on-site meter reading.
- Financial Benefits: Brings financial gains to utility companies by reducing meter and maintenance costs.
- Customer Benefits: Detecting meter failures, faster service restoration, improved accuracy and flexibility of billing.
- Security Benefits: Automated Metering Infrastructure (AMI) technology enables enhanced monitoring of system resources, which mitigates potential threats posed by hackers / cyberterrorist networks.



Other Areas for Collaboration for Enhancing Customer Experience and Reducing Cost of Business Operations



Meter Management

- Meter Data Management Solutions
- Meter reading services & Energy Theft Detection

Customer Management Solutions

- Customer Relationship Management (CRM)
- Advertisement on Bills

Payment Solutions

- Billing, Bill Delivery & Collection
- Payment options (Online / Offline)
- Revenue Recovery services

Permission and O&M Activities

Common permission from authorities for

- Laying of Power Cable / Gas pipeline
- Maintenance and laying of pipes & cables
- Routine patrolling of under & above ground assets

EV Charging Stations/ BatterySwapping Stations

For setting up commercial scale charging and/or battery swapping facilities for EVs







Thank You