





Setting the context

Ankit Gupta
Managing Consultant, Oil & Gas
ICF

18/03/2021

ICF: Strategic consulting for a digital world

7,000+

employees across the globe

70

offices worldwide

\$1.48B

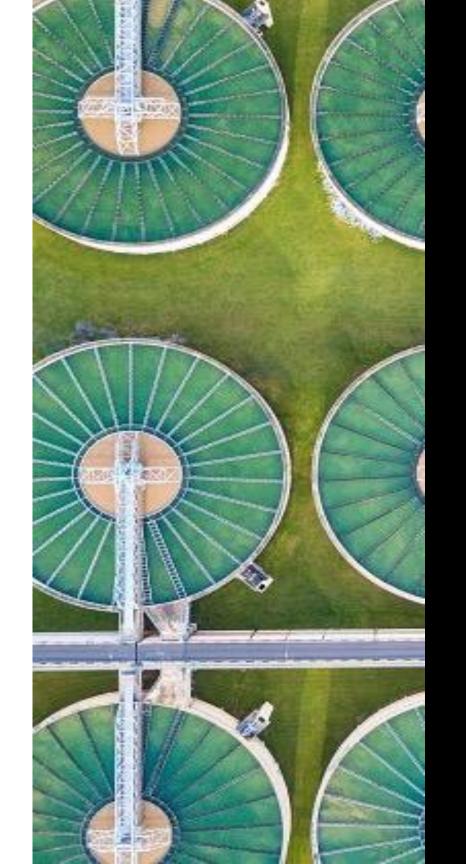
in annual revenue (2019)

Net zero

carbon status since 2006

50

years helping clients make big things possible



Who we are

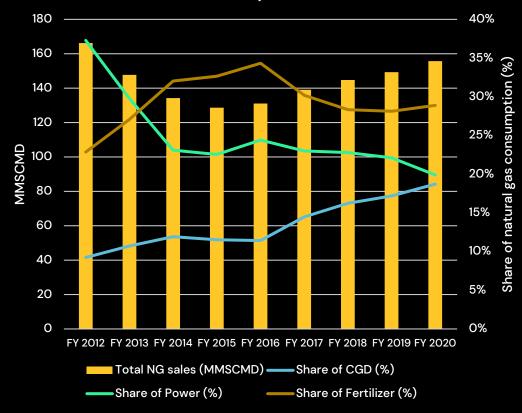
ICF is a global consulting services company with over 7,000 full- and part time employees, but we are not your typical consultants. At ICF, business analysts and policy specialists work together with digital strategists, data scientists and creatives. We combine unmatched industry expertise with cutting-edge engagement capabilities to help organizations solve their most complex challenges. Since 1969, public and private sector clients have worked with ICF to navigate change and shape the future.

What we do—and how we do it differently

We combine traditional consulting expertise with cutting-edge digital agency services to support our clients in a highly interdisciplinary way. We draw our distinct value from the full-scale of services in our arsenal.



Share of key sectors in natural gas consumption mix



15%

The vision is to make India a "Gas Based Economy" with an ambitious target of natural gas to have 15% gas share in primary energy basket by 2030

Total authorized districts to enable

Total authorized districts to enable access of natural gas in covering close to 70% of population and covering close to 53% of Indian geography

Exchange

To enable market price discovery of natural gas, gas exchange regulations were finalized, and Indian Gas Exchange was launched

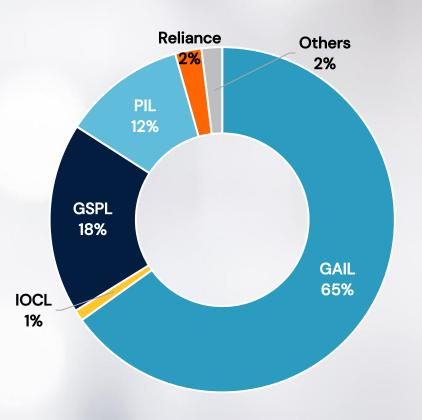
Unified tariff

Notified unified tariff regulations to simplify the tariff system in India, limiting cascading of tariff to end consumer

Recent developments in natural gas sector in India

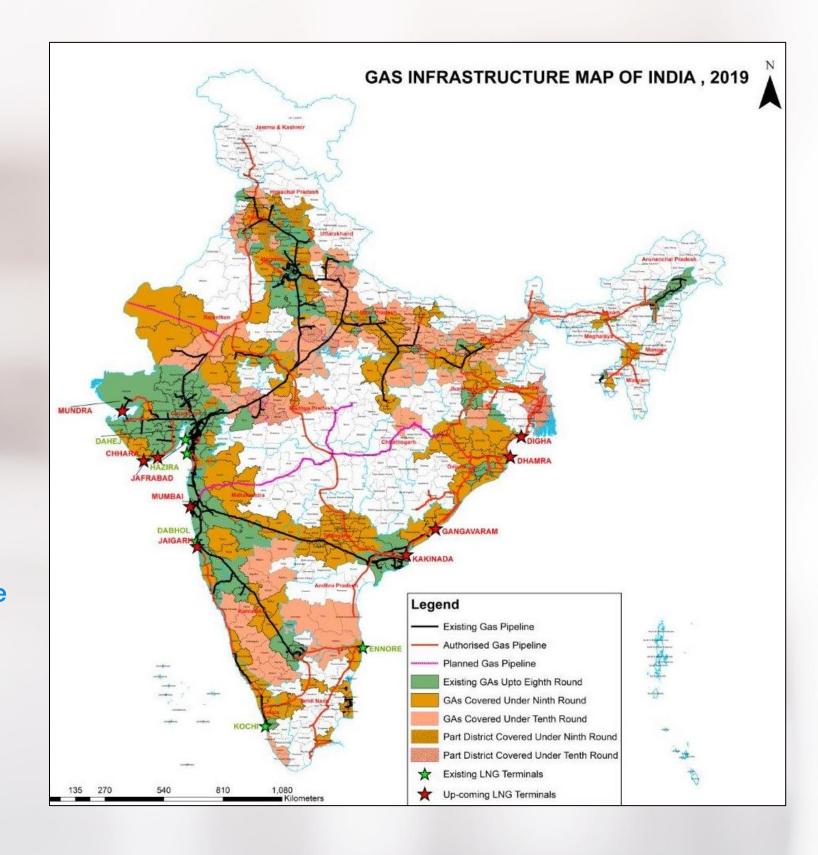
Natural Gas Pipeline

Details	Length
Total length of authorized natural gas pipelines	32,559 km
Total length of operational natural gas pipelines	17,016 km
Total length of under construction natural gas pipelines	15,543 km



25%

of the total pipeline capacity is available under common carrier capacity in India



Current Scenario



- For entities and customers who seek to book a certain capacity (on common carrier basis) in the pipelines operated by an entity, there is a provision to apply for the capacity on its portal.
- The entities provide details like capacity requirement and plant location in the portal based on which capacity allocation process is initiated.

Proposed changes in the structure



• Creation of an independent system operator, which will be an independent operator of common carrier gas pipelines to manage the common carrier part of the entire gas pipeline system in the country

India to have an independent operator – expected to manage the open access capacity

Full Ownership Unbundling of transmission business from supply

Independent System Operator

Independent Transmission Operator

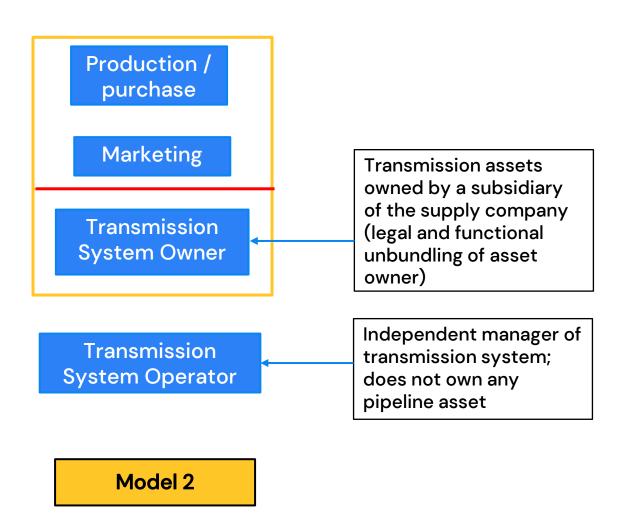
Production / purchase

Marketing

Transmission system owner and operator

Transmission assets owned and operated by an independent entity e.g. UK NGT

Model 1



Production / purchase

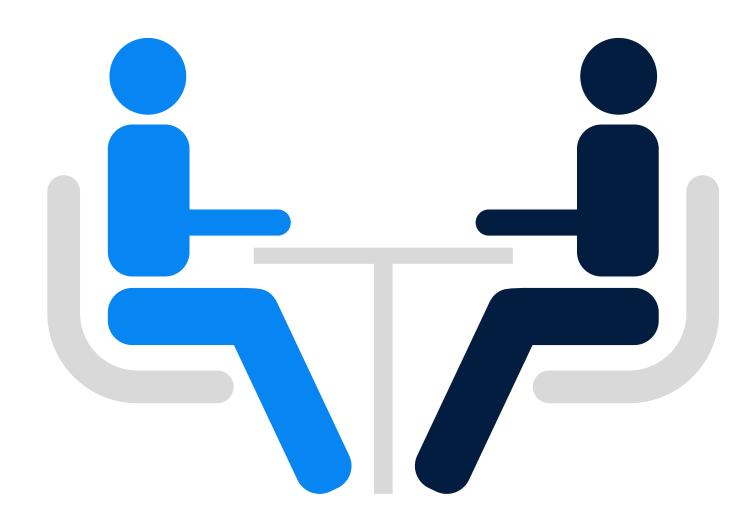
Marketing

Transmission system owner and operator

Transmission system owned and operated by an affiliate of the supply company

Model 3

Different TSO models explained in a nutshell



In today's webinar we will

- a) Listen from an international perspective about Transmission System Operators and how they were developed in the respective country
- Keynote address by Shri Tarun Kapoor, Hon'ble Secretary, Ministry of Petroleum & Natural Gas, Government of India
- c) Panel discussion to deliberate and understand roles and responsibilities of a TSO:
 - Which model could be best suited for India
 - What are the factors one must keep in mind to arrive at a conclusion

Discussions ahead...



Get in touch with us:

Ankit Gupta

Managing Consultant (Oil & Gas)

Ankit.Gupta@icf.com

- in linkedin.com/company/icf-international/
- twitter.com/icf
- f https://www.facebook.com/ThisIsICF/

icf.com

About ICF

ICF (NASDAQ:ICFI) is a global consulting and digital services company with over 7,000 full- and part-time employees, but we are not your typical consultants. At ICF, business analysts and policy specialists work together with digital strategists, data scientists and creatives. We combine unmatched industry expertise with cutting-edge engagement capabilities to help organizations solve their most complex challenges. Since 1969, public and private sector clients have worked with ICF to navigate change and shape the future.