



4th Conference on

GAS-BASED POWER GENERATION

Supply Scenario, Stranded Assets, Evolving Role, and Future Strategies

March 14-15, 2019, New Delhi

Organisers:



GAS-BASED POWER GENERATION

Mission

- The gas-based power generation segment, with around 25 GW of stranded and under-utilised capacity, could see an improvement over the next few years given the role such plants play in a high renewables scenario.
- Gas-based power plants are highly suited to bring in the much-needed reliability as spinning reserves due to their fast ramping and quick start time capabilities. Also, gas is a cleaner fuel than oil and coal, and releases lower emissions and no particulate matter during power generation.
- However, there are multiple challenges that need to be addressed for gas-based power generation to play a meaningful role in the future energy mix. A significant shortfall in domestic gas availability, along with unaffordable imported gas, has forced the existing capacity to run at a plant load factor of 24 per cent only. Policy flip-flops in recent years over domestic supply allocations have also added to these challenges.
- Further, due to its high cost of power generation, imported LNG has become less competitive than other sources of power. This has also made it difficult to schedule such power in the merit order despatch. Stranded projects are unable to service their debt obligations and are on the verge of becoming non-performing assets. The government's e-bid subsidy scheme, which provided a short-term relief of two years to the segment, was rolled back in 2017.
- On a positive note, there are interventions and proposals in the works that should help revive the segment. Studies are being done to test gas-based plants as "peaker" plants that can switch on quickly and even out supply fluctuations from renewables. According to government estimates, about 20 GW of gas-based capacity is proposed to be used as peaking stations.
- Meanwhile, a gas auction mechanism, which involves the pooling of domestic and imported LNG, is being discussed on the lines of the e-bid scheme. Other measures that are being considered include diversion of gas from non-core sectors, moderation of R-LNG costs and the expeditious roll-out of LNG transport infrastructure.
- Going forward, as greater demand is placed on gas-based power plants for providing flexibility to the grid, plant operators will also need to gear up to deal with O&M challenges with additional cycling. Digital enhancements, advanced diagnostics, condition-based monitoring devices and remote troubleshooting are some tools that can help plant operators manage the transition.
- **The mission of this conference is to provide a platform to various stakeholders to discuss the key challenges facing the gas-based power generation segment, and highlight the solutions and strategies required to address them. It will also provide a platform to showcase best practices, and emerging technologies and solutions in the segment.**

Target Audience

The conference is targeted at:

- Gas-based power generators (central/state/IPPs/captive)
- Other power generators (coal/hydro/wind/solar)
- Equipment manufacturers
- Environmental engineering consultants
- Industrial consumers
- Pipeline operators
- LNG/Natural gas producers
- Regulatory agencies
- Technology providers
- Certification and inspection companies
- Infrastructure builders
- Research and development organisations
- Government and planning agencies
- Power plant O&M providers
- Energy efficiency consultants
- Investors and financial institutions
- Gencos, transcos and discoms
- Consulting and legal firms, Etc.

Previous Participants

The organisations that have participated in our previous conferences on "Gas-based Power Generation" include: 3i India, Adani Gas, Adani Power, AECOM, Aggreko Energy Rental, AGI Glas Pac, Aries Power, Assam Power Generation Corporation, Axis Bank, Baring Private Equity Asia, BGR Energy Systems, Bharat Forge, Bhartiya Marketing Revolution, BHEL, Brigade Infrastructure & Power, Camfil, Caparo Power, Carbon Clean Solutions, Caterpillar, CERC, Chemtrols, Cinda Engineering & Construction, Clarke Energy, CLP, Corporate Profiles, Corrtch Energy, COWI, CRISIL Infrastructure Advisory, Cummins India, Dalmia Cement, Deepak Fertilizers & Petrochemicals, DEIF, Economic Law Practice, Energy Infrastructure Management, Engie Global Markets, Engineers India Limited, Ergonomix Power Consultants, Essar Power, Essar Power Hazira, Excellence Enhancement Centre for Indian Power Sector, Exelon, Exxon Mobil Gas, GAIL, GE Infrastructure Energy, GE Power, GE-Oil & Gas, Ginni International, GMR Energy, Godawari Power & Ispat, Green Infra, Green Power International, Gujarat Gas, Gujarat State Electricity Corporation, GVK Power & Infrastructure, Haryana City Gas Distribution, Hazira LNG, HCC, H Energy Group of Companies, Hero Honda Motors, Hindustan Electricity Generation, Hindustan National Glass & Industries, Hoerbiger, Honeywell Automation, ICF International, ICRA, IDBI, IDFC Project Equity, IFCI, IMC, India Power Corporation, India Uniper Services, Indian Energy Exchange, Indian Oil Corporation Limited, Indraprastha Gas Limited, Indraprastha Power Generation, Innovima Technologies, Inox Wind Infrastructure Services Limited, IOT Infrastructure & Energy Services, Isolux Corsan, Jakson, JSL, Jubilant Energy, Kakoti Engineering Works, Kawasaki Heavy Industries, KazStroyService Infrastructure, Kirloskar Brothers, Kirloskar Oil Engines, KPMG, KRIBHCO, L&T Infrastructure Finance, L&T Sargent & Lundy, Larsen & Toubro, Link Engineers, Madhya Pradesh Urja Vikas Nigam, Madras Fertilizers, MahaGenco, Man Diesel & Turbo, Marsh India, MEC Global, Mechtech Group, Ministry of Power, Mitsui, Money Matters Financial Services, Moser Baer, MSPGCL, Nagarjuna Fertilizers & Chemicals, NDPL, NFL, Nirmal Industrial Controls, NPTI, NTPC, Oil India, ONGC, ONGC Tripura Power Company, OPG Power, PE Consulting, Petroleum & Natural Gas Regulatory Board, Petronet LNG, Pietro Fiorentini, Power Finance Corporation, Pratt & Whitney, Primove Engineering, PTC Energy, PTT International Company, Quippo Energy, Rai Industrial Power, Rajasthan Rajya Vidyut Prasaran Nigam, Reliance Energy, Reliance Infrastructure, RMG Autometers, SBI Capital Markets, Sew Infrastructure, Shapoorji Pallonji and Company, Siemens, Sindya Power Generating Company, Siti Energy, Soma, Sterling & Wilson, Surya Roshni, Tata Power, TERI, Thermax, Toshniwal, Total Projects, Trilegal, Triveni, UJVNL, Vandana Global, Wartsila, Wendt India, etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What have been the key trends in the gas-based power generation segment?
- ❖ What have been the recent developments?
- ❖ What is the segment's outlook? What are the key issues and concerns?

GOVERNMENT PERSPECTIVE

- ❖ What is the government's perspective on the gas-based power generation segment?
- ❖ What are the steps proposed for addressing the segment's challenges?
- ❖ What is the government's outlook for the segment?

DEVELOPER/OPERATOR PERSPECTIVE

- ❖ What is the perspective of private developers on the current state of the gas-based power segment?
- ❖ What are the major issues and concerns?
- ❖ What is the future outlook?

REGULATORY PERSPECTIVE

- ❖ What are some of the key regulatory issues impacting the gas-based power generation segment?
- ❖ What are the regulatory measures needed to tap the flexibility potential of gas-based power plants?
- ❖ What is the outlook for the segment?

DOMESTIC GAS SUPPLY OUTLOOK

- ❖ What has been the trend in domestic gas supply from various sources (APM, non-APM, etc.)?
- ❖ What are the various gas sourcing strategies and options being adopted?
- ❖ What is the outlook for domestic gas production and supply?

COST ECONOMICS AND TARIFFS

- ❖ What has been the trend in generation and fuel costs for gas-based plants?
- ❖ What has been the trend in the generation cost of imported LNG-based plants?
- ❖ What is the outlook for costs and tariffs?

LOAD BALANCING AND RENEWABLE INTEGRATION

- ❖ What would be the impact of increasing renewable energy penetration on the electricity grid?
- ❖ What role can gas-based power plants play in balancing the grid in a high renewables scenario?
- ❖ What are the enabling policy and regulatory measures needed to incentivise gas-based power plants for balancing?

FOCUS ON TECHNOLOGY

- ❖ What have been the new trends and developments in gas turbine technologies?
- ❖ What are the new and promising technology solutions for optimising performance?
- ❖ What has been the trend in uptake by gencos?

GAS-BASED PLANTS AS PEAKERS

- ❖ What is the potential of gas-based power plants as peakers?
- ❖ What is the response and start-up time associated with peaker plants?
- ❖ What is the impact of operating gas-based power plants as peakers on tariffs?

O&M OF GAS-BASED POWER PLANTS

- ❖ What are the key O&M-related challenges for gas-based power plants?
- ❖ What are the technologies, solutions and best practices in this regard?
- ❖ What are the new and emerging requirements?

DIGITALISATION POTENTIAL

- ❖ What are the potential areas and processes for digitalisation in a gas-based power plant?
- ❖ What are the advantages and outcomes achievable with digitalisation?
- ❖ What has been the experience so far? What are the challenges?

FLEXIBILISATION STRATEGIES

- ❖ What is the impact of cycling on the performance of gas-based power plants?
- ❖ What are the flexibilisation strategies and solutions for gas-based power plants?
- ❖ What are the challenges involved in flexibilisation?

FOCUS ON LNG

- ❖ What is the global LNG market scenario?
- ❖ What have been the recent trends in LNG prices? What have been the buying strategies?
- ❖ What is the demand outlook for imports? What are the future sourcing options?

FOCUS ON CAPTIVE CONSUMERS

- ❖ What are the current gas sourcing options for industrial consumers? Are gas-based captive plants a viable option?
- ❖ What is the economics for industrial energy users?
- ❖ What are the current customer requirements, issues and challenges?

SOLUTIONS FOR COMMERCIAL USERS

- ❖ What are the current gas sourcing options for commercial consumers (malls, hotels, etc.)? Are gas-based captive plants a viable option?
- ❖ What is the economics for commercial energy users?
- ❖ What are the customer requirements, issues and challenges?

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors. The company publishes **Indian Infrastructure** (a magazine on infrastructure policy and finance), **Power Line** (India's premier power magazine) and **Renewable Watch** (magazine that covers the entire spectrum of renewable energy). It also publishes the **Gas in India report**, **Oil & Gas News** (a weekly newsletter), and the **Oil & Gas Directory and Yearbook**.

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GAS-BASED POWER GENERATION IN INDIA

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Registration Form

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Registration Fee

Delegates	Fee			
	INR	GST @ 18%	Total INR	Total USD
One delegate	22,500	4,050	26,550	418
Two delegates	37,500	6,750	44,250	732
Three delegates	52,500	9,450	61,950	1,046
Four delegates	67,500	12,150	79,650	1,360

- There is a special low fee of Rs 7,000 per participant for the gas-based power plants. GST of 18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.
- To register online, please log on to <http://indiainfrastructure.com/conf.html>

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