

# FOOTPRINTS 2019



## **OUR VISION**

To Contribute Effectively for Development of Sustainable Energy Security for India

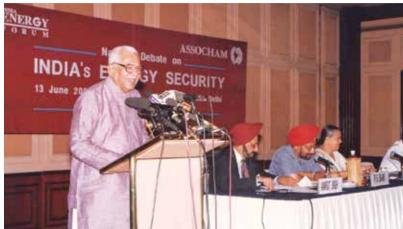
## OUR MISSION

- To help evolve a dynamic national energy policy
- To provide a platform for deliberation and recommendations towards development of competitive energy sector.
- To advise and assist the stakeholders in formulation and implementation of policies and programmes in energy sector.
- To promote a favourable regulatory framework for development of energy sector.
- To contribute towards optimal, efficient and sustainable use of energy resources.















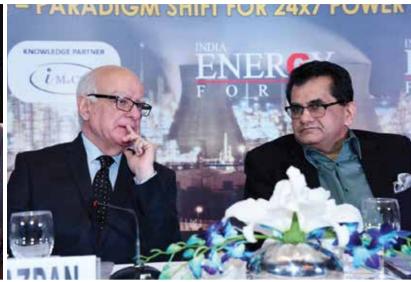


















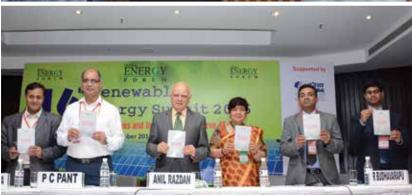




















































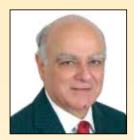




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Former Advisor, Min of Coal



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**Mr. V. K. Sehgal** Former CMD, SECL



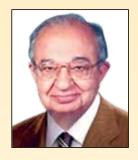
Shri Ashok Mehta Former CMD, WCL



**Shri A K Tooley** Former Director, WCL



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Mr. Ashok Haldia Former MD & CEO PTC India Financial Services Ltd



## SECRETARY GENERAL'S REPORT ON THE ACTIVITIES OF IEF DURING THE $\frac{YEAR}{2019}$

#### Welcome to the 18th Annual General Meeting of the Forum!

I have great pleasure and honour to state that last year 2019 was highly successful and rewarding. A brief Summary of our initiatives is appended below:

### 17th Annual General Meeting

24th February 2019, New Delhi

Before starting the meeting, the members paid rich tributes to the senior leaders who unfortunately had left for their heavenly abode during the year. The meeting noted that Mr. S.K. Manglik, Mr. R.S. Butola, Mr. L.L. Bhandari, Mr. K.A. Sinha and Mr. P. Abraham had contributed heavily to the growth of the Indian Energy sector and the Forum. The Members observed silence to pay homage.

#### **Welcome remarks by the President**

A printed copy of the President's Welcome Address was circulated. It covered an in-depth review of the energy and environment sectors in India. The Address was much appreciated by the members. There was an intensive discussion on the address and members suggested that we should have a more focused discussion meeting on New and Cleaner Technologies and on Gas and Pipelines. It was pointed out that top energy experts are our members and indeed some of them are attending this AGM. The President agreed that these are important topics and we should try to organize Urja Vichar Manch Meetings to discuss these issues in detail.

#### Passing the minutes of the last AGM held on 25th March, 2018

The SG informed the members that the follow up action, where needed was taken. The minutes of the last AGM were passed unanimously.

### Report on the activities during the year by the **Secretary General**

SG's Report giving details of the flagship events, Urja Vichar Manch meetings and publications was circulated which highlighted that all the regular flagship annual events and three Urja Vichar Manch









Meetings which were held during the year were highly successful. The SG thanked the members of the Board of Management, National Advisory Board, Chairmen and Convenors of the respective Steering Groups for the success of their events. He also thanked the Secretariat heded by Mr. SS Rawat

#### Report on the Accounts by the Treasurer

The Treasurer, Mr. YR Mehta presented the Report on Accounts as on 31st March, 2018. He mentioned that the sponsorship for the events is shrinking but the other



administrative expenses are under control. Members suggested that the Accounts statement should have a noting on expenditure. Another suggestion was that we should try to move away from costly venues to lower cost venues like IIC / Habitat etc., wherever feasible, to save costs.

#### **Distinguished Energy Service Award**

Every year we award a distinguished dignitary member who had significantly contributed to the growth of the energy sector and also helped the Forum to achieve its targets. Shri Rajeev Sharma, CMD, PFC, was presented with the Award for the year 2018. Shri Sharma has been leading the financial revival of the energy sector especially power and renewables. He has also been strongly supporting the endeavours of the Forum.

### **INITIATIVES IN 2019**

### **Urja Vichar Manch**

30th April 2019

Theme: National Gas Grid

The Theme of the first Urja Vichar Manch meeting was "National Gas Grid". The keynote Speakers were Dr Ashutosh Karnatak, Director (Projects), GAIL India Ltd and **Shri B B Mohanty**, Former Member, PNGRB. **Shri S C Tripathi**, Patron, IEF and Former Secretary, Ministry of Petroleum and Natural Gas chaired the meeting. **Shri Anil Razdan**, President, IEF, welcomed the dignitaries on the dais and participants. Shri Y R Mehta gave the introductory remarks.

Dr. Ashutosh Karnatak said that GAIL is actively involved in developing the Grid because Government's ultimate goal is to make India a gas-based energy economy. Mr. Mohanty agreed on the need to urgently develop the Grid but said that the development is not as fast as needed.



The Meeting was attended by large number of members of the Forum and sectoral leaders including Mr. R.S. Sharma, Dr. S.C. Sharma, Mr. N.M. Borah and Dr. C.R. Prasad. There was very interesting discussion on the need for the Grid and the hurdles in its development.





### **Urja Vichar Manch**

28th June, 2019

Theme: Hydro Power - Is the New Policy Adequate for Development

The key-speakers were Mr J S Bawa, Chief Engineer, CEA, Mr Janarddan Choudhary, Director (Tech), NHPC and Mr Jayant Kawale, Former JS (Hydro), Ministry of Power and Advisor, Rattan India Ltd.

Mr Anil Razdan, President, IEF welcomed the key-speakers and delegates. Mr B Bhambhani, Convenor, Power Group, IEF gave introductory remarks.









### **Conference on Future of Power in Tamilnadu**

6<sup>th</sup> September 2019, Chennai

Theme: Challenges, Innovation and Energy Technologies in Power Sector

India Energy Forum in association with Madras Chamber of Commerce and Industry organised our Annual Summit in Chennai on 6th Sept 2019. The theme of the Summit was "Challenges, Innovation and Energy Technologies in Power Sector".

The Summit was inaugurated by Hon'ble Minister of Electricity Shri Thiru P Thangamani, Government of Tamil Nadu.



President, IEF, Mr Anil Razdan, Mr H L Bajaj, Chairman, Power Group, Mr. K.S. Popli, Chairman, Renewable Group. IEF and Mr B Bhambhani Convenor, Power Group represented IEF.

The emphasis in the Summit was laid on Digital Technologies in the maintenance of large power projects, role of electric vehicles in the future and share of Renewables in the total power generating capacity of Tamil Nadu.



### 7th Roundtable Conference on Coal

24th September 2019

Theme: Indian Coal – Potential and Diversification

The India Energy Forum (IEF) together with Mining, Geological and Metallurgical Institute of India (MGMI), Delhi Chapter and **Indian School of Mines Alumni Association** (ISMAA) had organised its biennially Round Table Conference on Coal on 24th September 2019. The theme of the Conference was "Indian Coal - Potential and Diversification".

The Conference was inaugurated by Shri Pralhad Joshi, Hon'ble Minister of Coal, Mines and Parliamentary Affairs. The Guest of Honour was Shri S C Garg IAS, Secretary, Ministry of Power. Shri Anil Razdan, President,



India Energy Forum delivered the Welcome Address. The Theme Address was given by Shri U Kumar, Former CMD. Shri G C Mrig, President, ISMAA DC, Shri Rakesh Kumar, CMD, NLC India Ltd, and Dr Anindya Sinha, Advisor, Ministry of Coal also addressed at the Inaugural Session. Introductory remarks were given by Shri N N Gautam, Convenor, Organising Committee.

#### **Technical Session I: Coal Production: Meeting the Demand**

The Session was chaired by Shri Alok Perti IAS (Retd), Former Secretary, Ministry of Coal and co-chaired by Dr Ranjit Rath, CMD, MECL. The other distinguished speakers were Shri Gopal Prasad, GM (PAD), CMPDI. Shri Vivek Bhatia, Mg Director, Thyssenkrupp Industries India; Shri R M Wanare, GM (Mining), Coal India Ltd; Shri Sariputta Misra, Head of Mining, NTPC jointly with Shri A. S. Subramanian, AVP and Project head TSMPL). The Session Coordinator was Shri Ashok Mehta, Former CMD, WCL



#### **Technical Session II: Indian Coal: Production and Diversifications**

The Session was chaired by Shri Tuhin Mukherjee, Mg Director, EMIL and co-chaired by Shri Rajiv Shekhar, Director, IIT- ISM. The other distinguished speakers were Mr. Richard A Horner, Director, Special Projects & Emerging Technology, School of Energy Resources, Univ of Wyoming; Prof. AK Singh, Former CMD, CMPDI and Professor, ISM; Shri Shouvik Majumder, Sr President, Head-Mining & Minerals, Hindalco; and Shri Pankaj Satija, TATA Steel. The Session Coordinator was Shri P S Upadhyaya, Former Director (T), NMDC.



#### **Technical Session III: Diversification of Usage of Indian Coal**

The Session was chaired by Shri N C Jha, Former CMD, CIL and co-chaired Shri M N Jha, Advisor, JP Group. The other distinguished speakers were Dr A K Balyan, CEO (Oil & Gas), ADA Group - Coal to Oil; Shri A.N. Tiwari, JSPL - Surface Gasification (KD); Shri P N Hajra, Former ONGC; and Shri Prodyut Maji, Head – Gasification & Petrochemicals, Adani Synenergy Ltd. The Session Coordinator was Shri V K Sehgal, Former CMD, SECL



Valedictory Session: Dr Kirit Parikh, Former Member (Energy), Planning Commission was the Chief Guest of the Session. The Session was co-chaired by **Shri Peeyush Kumar**, Director (Tech), Ministry of Coal. The other Distinguished Panelists were Shri S.K. Chowdhary, Former Chairman, CIL; Shri PR Mandal, Former advisor (Projects), Ministry of Coal; **Dr Rahul Tongia**, Brookings India; and **Shri Kapil Dhagat**, Executive Vice President (BU Coal), JSPL.



The Draft Recommendations emerged during the Conference were ready by Dr M M Seam, Former Advisor, Essar Minerals. The Session Coordinator was **Shri SK Grover**, Former GM (Fuels), NTPC.



### **Urja Vichar Manch**

27th September, 2019

Theme: Coal - Potential/Diversification

The Urja Vichar Manch was held on Friday, 27th September 2019. The key speaker of the meeting was Mr. Richard A Horner, Director, Special Projects & Emergingl Technology, School of Energy Resources, Univ of Wyoming. The theme was "Coal - Potential/Diversification".

Shri Anil Razdan, President, IEF gave the welcome remarks. While the opening remarks were given by Shri N N Gautam, Chairman, Coal Group, IEF, Shri S K Grover, Convenor, Coal Group, IEF introduced the Speaker to the participants. **Shri U Kumar** gave his remarks on the Theme and its importance in India.







### **Meeting with the South African Delegation**

10th October, 2019

A meeting with the Delegation from South Africa was held on 10th October 2019 at FIPI Board Room, New Delhi. The Forum's Team was headed by Mr K S Popli, Chairman, Renewable Group, IEF and Former CMD, IREDA. The other Members were **Dr Malti Goel**, Convenor, Renewable Group, IEF; **Mr V Raghuraman**, Former Director, Suzlon; **Mr K L Chugh**, Chairman Emeritus, ITC and Mr Amarjit Singh, SG, IEF.

South African Delegation was led by Mr Recado Andrews, Minister Counsellor, South African High Commission. The other members were Mr Lwazi Koyana, MD, Nations Capital Advisors; Mr Bharad Roopa, Edelweiss; and Mr Roy Naidoo, Edelweiss.

Although Edelweiss is active in India in financing and investments, they are now looking forward to expanding commercial relations with India, especially in renewable energy projects.

The South African team was in India to discuss opportunities for expanding relationship in the Renewable sector projects both in India and South Africa. Edelweiss feels that sectoral players in both the countries are not fully aware of opportunities for expanding business both in India and South Africa.

There was useful discussion and their queries were answered by Mr Popli and others.





### 11th Nuclear Energy Conclave 2019

18th October 2019, New Delhi

Theme: Economics of Nuclear Power - Innovations towards Safer & Cost Effective Technologies

The annual flagship event of nuclear energy sector, **11th Nuclear Energy Conclave**, was held on 18th October 2019 at Hotel Le Meridien, New Delhi. The theme of the Conclave was "Economics of Nuclear Power - Innovations towards Safer & Cost Effective Technologies".

The Conclave was inaugurated by **Dr Jitendra Singh, Hon'ble MoS (I/C)** for DoNER, MoS in Prime Minister's Office, Deptt of Personnel and Training, Deptt of Space and



Atomic Energy. **Shri Anil Razdan**, President, IEF gave his opening address. **Dr. Srikumar Banerjee**, Chairman, Nuclear Energy Group, India Energy Forum and Chancellor Homi Bhabha National Institute delivered the Welcome Address; **Dr K N Vyas**, Secretary, DAE and Chairman, AEC; **Dr Anil Kakodkar**, Former Chairman, AEC; **Dr R B Grover**, Member, AEC also addressed during the inaugural Session. Vote of Thanks was given by **Shri S M Mahajan**, Convenor, Nuclear, IEF and Former ED, BHEL





#### Technical Session I: "Growth of Nuclear Power for Meeting Base Load Demands - Opportunities & Challenges for Manufacturing Industry"

The Session was chaired by **Shri A K Balasubrahmanian**, Director (Tech.), NPCIL. The Distinguished Speakers were **Dr** Dinesh Srivastava, CE, Nuclear Fuel Complex; Shri Nikita Mazein, President, Rosatom Overseas; Shri Thomas Mieusset, Nuclear Counselor, French Embassy India; Shri YS Trivedi, Sr. Executive Vice President, Larsen & Toubro Ltd and Shri Avinash Jain, GM, BHEL.



Technical Session II on "Use of Nuclear Energy in Healthcare and Municipal Waste Treatment" was chaired by Shri **G Nageswara Rao**, Chairman, AERB.

The other distinguished speakers were **Dr Harsh Mahajan**, MD, Mahajan Imaging; **Dr Sudeep Gupta**, Director, ACTREC, Tata Memorial Centre; and **Ms Kritika Kaur**, Technical Manager, Nuvia India.



Technical Session III on "Emerging Technologies for Economy and Enhanced Safety viz, Small & Medium Size Reactors, Passive Safety Features, Molten Salt Reactors"

The Session was chaired by **Dr A K Bhaduri**, Director, IGCAR. The other Distinguished Speakers were **Dr Srikumar** Banerjee and Dr Arun Nayak, Reactor Engineering Division, BARC.



The Conclave was summed up Shri S C Chetal, Mission Director, AUSC and Former Director, IGCAR.



### 22<sup>nd</sup> India Power Forum 2019

27th November 2019, New Delhi

Theme: Power Sector Agenda Beyond 2020: Challenges and Imperatives

The India Energy Forum organised its annual flagship event of power sector, 22nd India Power Forum, on 27th November 2019 at Hotel Le Meridien, New Delhi. The theme of the Conference was "Power Sector Agenda Beyond 2020: Challenges and Imperatives". ICRA **Online Ltd** was the Knowledge Partner of the Summit. Shri P K Pujari, Chairman, CERC was the Chief Guest and inaugurated the Conference. Theme Presentation was given by Shri Satyajit Suklabaidya, Head – Energy, ICRA Online Ltd. While the welcome address was given



by Shri Anil Razdan, President, IEF; Shri H L Bajaj, Chairman, Steering Committee of the Summit, Chairman, Power Group, IEF, gave an introduction of the Summit. The other prominent speakers who addressed at the Inaugural Session were: Shri ICP Keshari, Secretary (E), Govt of MP; Shri Ajay Mathur, DG, TERI; and Prof Deepak Sharma, VP for Academic Affairs, Asian Institute of Technology, Thailand. **Shri B Bhambhani**, Convenor, Power Group, IEF, gave the Vote of Thanks.



#### Session I on "Viable, Efficient and Competitive Power Sector – Vision 2024"

This Session was chaired by **Shri Rakesh Nath**, Former Chairperson, CEA. The other Distinguished Panelists were **Shri** Prashant Jain, MD, GE Power; Shri S N Roy, Director & CEO, L&T Power; Shri Gerd Deusser, CEO (Power & Gas), Siemens; Shri R K Vishnoi, Director (Tech), THDCIL; Shri R S Sharma, MD, Lalitpur Power Generation Co., Bajaj Group; Shri Soumik Biswas, DGM, GAIL India Ltd; and Shri Jan Anno Vander Laan BD Leader – PCIC, Netherlands. The Moderator of the Session was **Shri B Bhambhani**, Former Director, BHEL.



#### Session II on "Power Transmission Sector – Challenges and the Way Forward"

This Session was chaired by Shri S.K.G. Rahate IAS, Additional Secretary, Ministry of Power and co-chaired by Shri R N Nayak, Former CMD, PGCIL. The other Distinguished Panelists included Shri Pankaj Batra, Chair WG 4, India Smart Grid Forum; Shri S K Soonee, Advisor, POSCO; Shri Anil Rawal, Vice President, Sterlite Power Transmission Ltd; Shri Volker Hild, Vice President (Transmission Solutins, Asia), SIEMENS Ltd. This Session was moderated by Shri B Bhambhani, Convenor, Power Group, IEF.



### Session III on "Power Distribution Sector – Proposed Restructuring and Key Challenges for Improving Financial Health for Guaranteed 24x7 Power by 2020"

The Chairman of this Session was **Shri M K Goel**, Chairman, Joint Electricity Regulatory Commission and **Shri S R Sethi**, Former Member, DERC, was the Moderator. The other Distinguished Panelists included **Dr Pawan Singh**, MD & CEO, PTC Financial Services; Shri Vivek Goel, CE, CEA; and Shri Puneet Munjal, Tata Power DDL.



Shri Anil Razdan, President, IEF, summed up the Proceedings of the Conference and thanked Speakers, Sponsors and Participants.

# Release of India Energy Forum's Task Force Report on "Roadmap for a Robust Gas Based Economy in India"

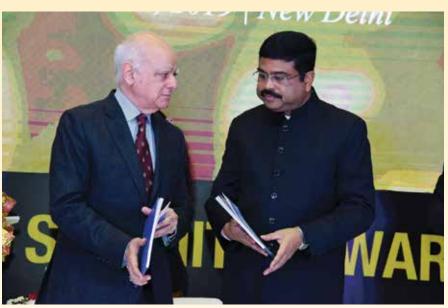
2<sup>nd</sup> December 2019

The India Energy Forum, in pursuance to the Government announcement to move towards a gas based economy, had set up a Task Force on Subject under the chairmanship of Shri R S Sharma, Former CMD, ONGC. The other Members included Dr Basudev Mohanty, Former Member, PNGRB (Co-Chairman); Dr S C Sharma, Former Advisor, Planning Commission; Mr Y R Mehta, Former Director, GAIL; Mr U Kumar, Former CMD, SECL/NCL and Representatives of FIPI, ORF, GAIL and IGL. Mr S.S. Rawat, IEF was its Convenor.

The Peer Review was done by **Mr S C Tripathi**, Patron, IEF and Former Secretary,
Ministry of Petroleum and Natural Gas, **Mr C R Prasad**, Former CMD, GAIL and **Mr Anil Razdan**, President, IEF and Former
Secretary, Ministry of Power.

The Task Force brought out a well-researched Report which was highly appreciated by the sectoral leaders.

The Hon'ble Minister of Petroleum and Natural Gas, Shri Dharmendra Pradhan released the Report on the occasion of FIPI Award Ceremony on 2nd December 2019 in New Delhi.







### 19th Renewable Energy Summit

17th January 2020, New Delhi

**Theme: Renewable Energy Trajectory: 2030** 

The India Energy Forum organised its annual flagship event on renewable energy "19th Renewable Energy Summit" on 17th January 2020 at Multipurpose Hall, IIC, New Delhi. The Theme of the Conference was "Renewable Energy

Trajectory: 2030".

#### **Inaugural Session**

The Conference was inaugurated by the Chief Guest, **Shri** Anand Kumar, Secretary, MNRE. The Guest of Honour was **Dr Kirit Parikh**, Former Member (Energy), Planning Commission. While Welcome Address was given by Shri Anil Razdan, President, IEF, Theme Presentation was given by Shri Anmol Malla, ICRA Online Ltd who were our Knowledge Partner. Dr. (Mrs.) Malti Goel, Hon. Convener, Renewable Energy Group, IEF, proposed the Vote of Thanks.





#### Technical Session I: Electric Vehicles and Battery Storage including Scaling Up Issues

This Session was chaired by Shri Anil Srivastava, Principal Consultant, Mobility, NITI Aayog. The other Distinguished Speakers present were Shri N Mohan, Head - EVCI, EESL; Dr Rahul Walawalkar, ED, India Energy Storage Alliance; Dr Sajid Mubashir, Scientist G, Department of Science & Technology and Shri Y K Jain, Smart Consulting – Smart City & Renewable Projects, Antriksh Photoenergy LLP





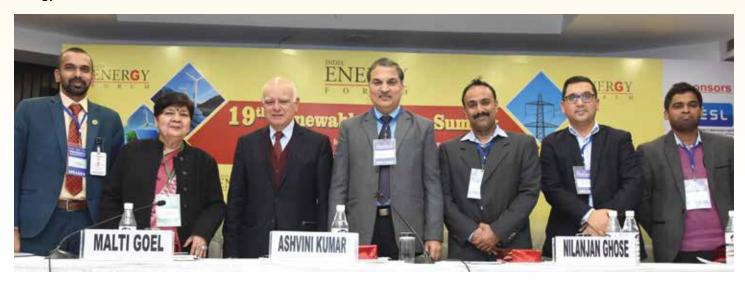
## Technical Session II: Discom's Role and Constraints in Promoting Discom's Role and Constraint in Promoting Renewable Energy

This Session was chaired by **Shri R P Singh**, Former Chairman, PGCIL and IIT, Guwahati and NIT, Patna. The other Distinguished Speakers present were **Shri V Subramanian**, Former Secretary, MNRE; **Dr A V Krishnan**, Professor, National Institute of Advanced Studies, Bangalore; **Shri Abhishek Shah**, Associate Director, IGH- Strategy and Operations, KPMG; and **Shri Sanjeev Gupta**, Mg Director, NEXGEN Financial Solutions Pvt Ltd.



### Technical Session III: Solarisation of Agri Pumps and KUSUM Scheme: Viability and Challenges

This Session was chaired by **Shri Ashvini Kumar**, Senior Fellow and Senior Director, Renewable Energy Technologies, TERI and Former MD, SECI. The other Distinguished Speakers were **Dr. (Mrs.) Malti Goel**, Former Advisor & Emeritus Scientist, Government of India; **Shri Nilanjan Ghose**, Senior Advisor, GIZ India; **Shri S Pulipaka**, CEO, NSEFI; **Shri Rajneesh Sharma**, Director, Consulting - Energy & Resources, Deloitte Touche Tohmatsu India LLP; and **Shri Nitin Akhade**, Clean Energy Access Network



**Shri Anil Razdan** summed up the proceedings of the Summit and thanked all the Speakers, Sponsors and Participants. The Conference was attended by large number of sectoral players.

### **PUBLICATIONS**

During the year, we have brought out three issues of TOTAL ENERGY. We are also doing DAILY ENERGY ANALYSIS REPORT (e-newsletter) which is well received by the Members.

Many letters of appreciations were received from top sectoral leaders.

My thanks are due to the National Advisory Board and Board of Management for their guidance, Members of the Executive Committee for their help day-to-day functioning, Chairmen and Convenors of the Sectoral Groups who took main responsibility or Organising their respective annual events, our Partners and Sponsors.

Finally I must thank our very small Secretariat headed by **Shri Surender Rawat**, who had a major role in ensuring the success of the various initiatives of the Forum

(Amarjit Singh) Secretary General

And Suph

### **Proposed Flagship Events in 2020**

- 8<sup>th</sup> Coal Summit & Expo
   8<sup>th</sup> and 9<sup>th</sup> September 2020, Hotel The Ashok, New Delhi
- 23<sup>rd</sup> India Power Forum
   11<sup>th</sup> November 2020, Hotel Le Meiridien, New Delhi
- Petro India
- 20<sup>th</sup> Renewable Energy Summit
- 12<sup>th</sup> Nuclear Energy Conclave 2020
- Power Conference in Chennai
- Urja Vichar Manch
   (Last Friday of Every Month)



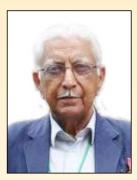
## FOUNDER MEMBERS OF INDIA ENERGY FORUM



**Shri P S Bami** Former CMD, NTPC



Shri Amarjit Singh MBE



**Late Shri G L Tandon** Former Chairman Coal India Ltd



**Late Shri Ramesh Bajpai,** Former ED, AMCHAM



**Shri Y R Mehta** Former Director, GAIL



**Shri B Bhambhani** Former ED, BHEL



**Shri Asok Dasgupta** MD, ADG Consultants



**Late Shri A K Sah**Former Chairman
Premier Energy Technologies



**Shri Ashok Mehta** Former Sr Vice President Enron India Ltd



### **India Energy Forum**

408 PHD House, 4/2 Siri Institutional Area, August Kranti Marg, New Delhi 110 016 INDIA
Tel: 011-41021422/23 • Email: iefindiaenergyforum@gmail.com, energyfo@gmail.com • Web: indiaenergyforum.org