

Management Development Programme on ENERGY Transition

Aug 01-02, 2024, TERI SAS Campus, New Delhi

It has been estimated that over three quarters of the global greenhouse gas emissions are on account of fossil fuels. A number of countries and large companies have been working towards decarbonization by undertaking investments and innovations in alternate fuels and associated systems. This is where *Energy Transition* comes in. It involves reduction of reliance on non-renewables, with a shift to alternative sources of energy. An effective energy transition strategy involves undertaking appropriate policy initiatives and laying down procedures to address both the demand and supply side of the operations.

Energy Transition would involve significant structural, managerial and administrative transformation in the edifice of the prevailing eco-system. Stakeholders across the across value chain - energy generators, fuel suppliers, power utilities, equipment manufacturers, EPC companies, investors and consumers would get impacted.

In this context, *TERI SAS, with support from the Indian Energy Exchange (IEX)*, is organizing a 2-day training programme to enhance the understanding of energy sector stakeholders and prepare them for the ensuing energy transformation.

Learning Outcomes

- Understand the imperative of energy transition
- Get an overview on evolving policies and regulations
- Appreciate the significance of renewables & climate funds
- Comprehend role of power markets and new technologies on transition

Participant Profile

- Utility managers, corporate professionals, bankers, entrepreneurs, engineers, young researchers, government/ PSU officials

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TIME	TOPIC	EXPERT
Day 1 (Aug 01, 2024)		
9:45 am- 10:00 am	Registration	
10:00 am- 10:45 am	Inaugural Ceremony Keynote address	TERI SAS IEX
10:45 am- 11:00 am	TEA BREAK	
11:00 am- 12:00 pm	Energy Transition Imperative for India	Dr Sapan Thapar Associate Professor, TERI SAS
12:00 pm- 1:00 pm	Role of Green Power Markets in Energy Transition	Mr Chandan Sinha Senior Manager, Indian Energy Exchange
1:00 pm- 1:45 pm	LUNCH BREAK	
1:45 pm- 2:45 pm	Facilitating Low-Cost Funds for Energy Transition	Mr Mudit Jain Head-Research, Tata Cleantech Capital
2:45 pm- 3:00 pm	TEA BREAK	
3:00 pm- 4:00 pm	Industrial Decarbonization Solutions for Hard-to-abate Sectors	Mr Parth Kumar Programme Manager, CSE
4:00 pm- 4:30 pm	Learnings & Reflections / Open Discussions	Dr Gopal Sarangi Associate Professor, TERI SAS

TIME	TOPIC	EXPERT
Day 2 (Aug 02, 2024)		
10:00 am- 11:00 am	Accelerating Energy Transition by Renewable Energy	Mr Abhishek Ranjan Partner-Energy Transition, EY
11:00 am- 11:15 am	TEA BREAK	
11:15 am- 12:15 pm	Opportunities in Area of Sustainable Transportation	Mr Arun Krishnan Manager, Climate Policy Initiative
12:15 pm- 1:15 pm	Enabling Energy Transition by Smart Grids	Mr Rajesh Kumar Senior General Manager, Power Grid
1:15 pm- 2:00 pm	LUNCH BREAK	
2:00 pm- 3:00 pm	Carbon Markets in facilitating Transition	Mr. Jatin Kapoor Head-Climate Transactions, Emergent Ventures India
3:00 pm- 3:15 pm	TEA BREAK	
3:15 pm- 4:15 pm	New & Innovative Solar Technologies	Mr Abhinav Jain Senior Energy Advisor, GiZ
4:15 pm- 4:20 pm	Vote of Thanks	TERI SAS
4:20 pm- 4:30 pm	Distribution of Certificates	TERI SAS & IEX

SPEAKER PROFILE (In Alphabetical Order)

Mr Abhinav Jain- Senior Energy Advisor, GiZ

Abhinav is working as Senior Energy Advisor under Indo German Solar Partnership project of GIZ, India. He has a bachelor's degree in Electronics and Communication and M.B.A in Energy and Environment Management. He had more than 14 years of work experience in the field of Renewable Energy. In past, Ms. Jain had worked with Ministry of New and Renewable Energy (MNRE) and The Energy and Resources Institute (TERI) in India. He is presently leading BIPV and Just Transition in coal mines regions in India.

Mr Abhishek Ranjan- Partner, Energy Transition, EY

Abhishek is a partner with Business Consulting practice at EY Parthenon's Energy Transition and Decarbonization CoE. He is the lead Partner for Renewable Electricity & Utilities. Abhishek comes with 24+ years of experience and contribution to the Electricity sectors specifically renewable electricity and transmission and distribution. He possesses deep expertise of RE sector (including energy storage), Indian grid code and power market, RE portfolio optimization, RE scheduling and operation.

Mr Arun Krishnan- Manager, Climate Policy Initiative

Arun is a Manager at CPI's Delhi office, where he leads the India regional program of the Global Innovation Lab in Climate Finance. Arun also leads urban and transport initiatives at CPI India and works with the Cities for Climate Finance Leadership Alliance which is a coalition of leaders committed to deploying finance for city level climate action at scale by 2030. Arun has over 15 years of experience in deal advisory, climate/project finance, public policy, and public-private partnerships in the areas of climate change, urban infrastructure, transport, smart cities, and airports. Arun has earlier worked at McKinsey and KPMG. He is a visiting faculty at the IIM Kashipur. Arun holds an MBA from IIM Ahmedabad and BE from Anna University, Chennai.

Mr Chandan Sinha- Senior Manager, Indian Energy Exchange Limited

Chandan is a professional with more than a decade's experience in Power Trading and Regulatory Affairs. Understanding of evolution of power market post Electricity Act-03 with experience in Long/Medium/short term power trading, Contract management, regulations governing power market, power portfolio management, renewable energy market and cross border electricity trade. Currently, associated with Indian Energy Exchange Limited as Senior Manager - Business Development, he has also worked with GMR Group in the past.

Mr Jatin Kapoor - Head, Climate Transactions, Emergent Ventures (India)

Jatin is currently leading EVI's Climate Transaction Business, managing a team of originators, consultants, and project managers. Jatin works with project developers and buyers across the globe, to identify, develop and market different environmental attributes. His current focus is to develop a portfolio of nature and community-based programs in India, Southeast Asia and Africa, for long-term sustainable supply of high-quality offsets. Jatin has been instrumental in helping governments to device clean energy and climate policies across India, Thailand, Malaysia and Laos. He has been delivering sustainability and climate solutions to clients ranging from manufacturing, renewable generation, and services sectors. Jatin has developed and led consulting business in India and Southeast Asia with expertise in carbon markets, climate policy, renewable energy, and corporate sustainability. He brings over 19 years of experience in setting-up and managing operations, developing relationships with key partners and leading business development efforts. He has studied Chemical Engineering, completed his MBA and is a Certified Expert in Climate and Renewable Energy Finance.

Dr Gopal Sarangi - Associate Professor, TERI School of Advanced Studies

Gopal has more than 24 years of research and consulting experience on energy market and regulation, green finance, sustainable development, carbon market, industrial decarbonisation and ESG issues, geopolitics of energy transition, energy modelling and forecasting, and impact assessment of energy and environmental interventions. He has contributed to collaborative projects funded by DFID, EPSRC, World Bank, British Academy, UNDP, Prosper.Net, ICIMOD, Norwegian Research Council (NRC) and Government of India (GoI) and various state governments in India. Gopal has contributed to policy making as a nominated member by the Ministry of Rural Development (MoRD) in selection of villages for their performance in renewable energy domain and carbon neutrality. He has been chosen as an Independent Director of UGVCL, a distribution utility. He has published several papers and has been invited to deliver talks in national and international forums.

Mr Mudit Jain- Head Research, Tata Capital Cleantech Finance

Mudit has worked on various segments in the Indian cleantech sector. The journey started with Solar PV and diversified into wind, storage, Electric Vehicles, Energy Efficiency, Green Buildings and now Green Hydrogen. Having developed in-depth knowledge in the cleantech, he is committed to doing his bit in the global fight and particularly Indian fight against climate change. Mudit's expertise include sector deep dive, identifying investment opportunities in cleantech segments, market potential analysis, financial and business modelling, credit appraisal, risk assessment and market strategy formulation. Previously Mudit was associated with Bridge To India, Price Water House Coopers, J P Morgan and Adani Solar. I am a member of Task Force for 'Finance towards decarbonization of Steel Sector', formed by Ministry of Steel. He has been a visiting faculty at IIM Lucknow, TERI SAS and IMT Ghaziabad and took sessions on financing of Indian cleantech space.

Mr. Parth Kumar- Programme Manager, Centre for Science and Environment

Parth holds a Master's in Architecture and Planning from Hafencity University, Hamburg, Germany. In the past he has worked with organisations like Statista in Germany, Eawag in Switzerland and Tata Institute of Social Sciences in India. He has been with CSE since 2019 and has worked extensively on industrial air pollution and decarbonization. Recently Parth authored CSE's reports on Decarbonizing India's Iron and Steel and Cement sector and is currently working on the power sector and the upcoming carbon markets in India. He has been part of CSE's delegation to COP27 in Egypt and COP28 in Dubai and is also representing CSE at the Ministry of Steel Task Force to define green steel in India.

Mr Rajesh Kumar- Senior General Manager, Central Transmission Utility of India

Rajesh is currently working as Senior General Manager at CTUIL (Wholly Owned Subsidiary of POWERGRID), looking after the Transmission network planning of Easter/North Eastern and Cross-Border Regions. He is also part of Task Force on One-Sun, One-World, One-Grid. Rajesh has 27 years of work experience in the power system, including Smart Grid, Energy Storage, System Operation, SCADA/EMS, DTS. He is member of various professional bodies such as IEEE, CIGRE and IEI. He has published several technical papers and co-authored a book on Smart grid. Rajesh is an Electrical Engineer from NIT-Rourkela and completed MTech in Energy & Environment from IIT Delhi.

Dr Sapan Thapar- Associate Professor, TERI School of Advanced Studies

Sapan completed his doctoral research as well as Masters, both in the field of energy, from the prestigious Indian Institute of Technology, Delhi. He has over two-decade long experience in the energy sector, with expertise in energy policy, green finance and energy efficiency. He has been involved in teaching and research since the past decade and has several research publications to his credit including a textbook. Sapan is a certified Energy Manager and had been associated with IREDA, TERI and Tata Consultancy Services (Energy Division).