



# Indian Institute of Technology Kanpur

## Chandrakanta Kesavan Lecture Series



SEP 12, 2022(Monday)



5:00-6:00 PM



L-15

### Speaker : Dr. Amitabh Verma

## Solar PV through the lens of Industry

### About the Talk



World is facing the devastating perils of climate change, which is mainly attributed to rising level of Green House Gases (GHGs) in the atmosphere. Electricity accounts for 17% of the total energy consumption in the world leading to 40% increase in the total GHG emissions. To address the continuous rise in GHGs, Government of India has declared certain measures under its Nationally Determined Contribution (NDC) including reduction in emission intensity (amount of CO<sub>2</sub> emission per unit GDP) by 45% that of 2005 level, 500 GW of total installed capacity from renewables and reducing one billion of emissions by 2030. Based on Central Electrical Authority estimates, solar PV is going to be at the forefront of these measures amounting to 280-300 GW cumulative installed capacity out of the total estimated renewable capacity of 500 GW by 2030. Given that more than 90% of the current renewable generation capacity of India lies with the private sector, the talk will outline the regulatory landscape, government incentives, requirement of consumers, capex trajectory, manufacturing infrastructure, economics and financing of solar and sector risks as perceived by an Independent Power Producers.

### About the Speaker

Mr. Amitabh Verma is a techno-commercial leader with 37+ years of varied experience in Indian and Multinational corporate R&D, setting up new research groups and tech businesses, developing new materials for electrical, engineering and renewable energy industries. He has led mid-size business of Rs. 400 crore revenue and has also authored multiple research papers, technical articles and process patents. Currently, he is associated as an advisor to Aditya Birla Solar Limited. Previously, he has worked as CEO-ABReL where he was instrumental in setting up 41 utility scale solar PV plants across ten states of India, adding upto an operational capacity of 650 MW and pipeline capacity of 1.8 GW.

**Zoom Link :** <https://iitk-ac-in.zoom.us/j/98816091191?pwd=a0U3dnpKV2gwclFrdWxLWFBVZ29Odz09>

**Meeting ID :** 988 1609 1191

**Passcode :** 915327

### Organised By

Chandrakanta Kesavan Center for Energy Policy and Climate Solutions

Department of Sustainable Energy Engineering