

# Next Generation Network (NGN) Webinars



## Technology's Role in Achieving Climate Sustainability

### Summary

This lecture explains what carbonization is, addresses its causes and impacts. It then offers technological solutions to reduce CO<sub>2</sub> emissions from the electric power sector which is responsible over 30% of global Carbon emissions. In order to address the reduction of carbon emissions from the electric power sector, a collaborative approach between the industrialized nation states and emerging economies is necessary. This will involve a portfolio of solutions with low-carbon generation from wind, solar, hydro and nuclear, storage, cross-border power transfer and advanced technology focusing on energy efficiency. This talk also discusses the IEEE Climate Change program and related activities.

### Speaker

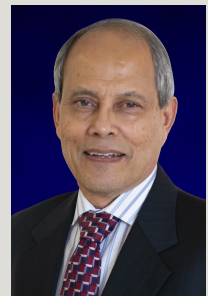
Professor Saifur Rahman is the founding director of the Advanced Research Institute at Virginia Tech, USA where he is the Joseph R. Loring professor of electrical and computer engineering. He is a Life Fellow of the IEEE and an IEEE Millennium Medal winner. He was the IEEE President and CEO in 2023, and was the president of the IEEE Power and Energy Society [PES] for 2018 and 2019. He is the founding editor-in-chief of the IEEE Electrification Magazine and the IEEE Transactions on Sustainable Energy. He has published over 160 journal papers and has made over eight hundred conference and invited presentations. He was the chair of the US National Science Foundation Advisory Committee on International Science and Engineering. He has an MS degree from Stony Brook University and a PhD in electrical engineering from Virginia Tech.

### Links & Information

Thursday, September 18, 2025  
12 pm CDT | 1 pm EDT

Duration: 1 hour

[Register Here](#)



**Dr. Saifur Rahman**

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