

## Meet the 2023 IEEE President & CEO

*Saifur Rahman, PhD, IEEE Life Fellow*

*2023 IEEE President and CEO*

*Joseph Loring Professor & Director, Virginia Tech Advanced Research Institute*

*VOLT: Meet the President*

*21 November 2023*





What I hear, I forget

What I see, I remember

What I do, I understand

## Confucius





Dr. Saifur Rahman (BSc EE 1972)

My Alma Mater

Bangladesh University  
of Engineering & Technology



BUET





Stony Brook University

Electrical and Computer Engineering

## Dr. Saifur Rahman (MS EE 1975)

Exciting careers await those who have technical acumen, drive and communication skills. An excellent example is Dr. Saifur Rahman, the Joseph R. Loring Professor of Electrical and Computer Engineering at Virginia Tech. Prof. Rahman earned his Master's degree in electrical engineering from Stony Brook University in 1975.

Professor Rahman came to Stony Brook from Bangladesh University of Engineering and Technology, where he received a bachelor's degree in electrical engineering. At Stony Brook he developed a passion for teaching by being a teaching assistant for Prof. Ken Short and Prof. C.T. Chen. He also developed a passion for research by interacting and doing joint work with an adjunct professor from nearby Brookhaven National Laboratory (BNL) and did a summer internship with that professor's group there in 1975. The internship gave him the self-confidence to do bigger things in his academic and professional career as he worked alongside other well-known professors from prestigious research universities such as Carnegie Mellon and Cornell.

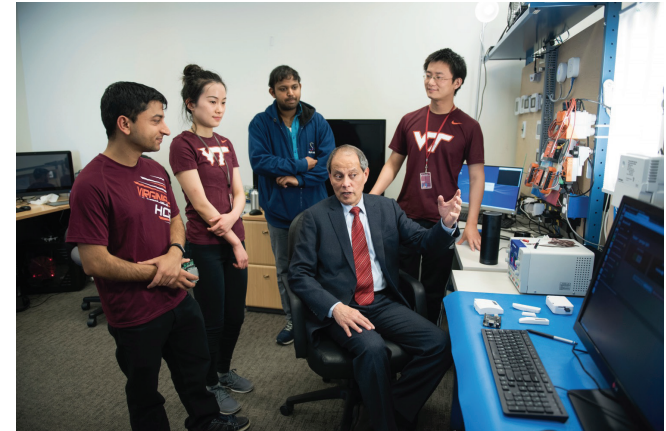




Dr. Saifur Rahman (PhD EE 1978)

## My Professional Background

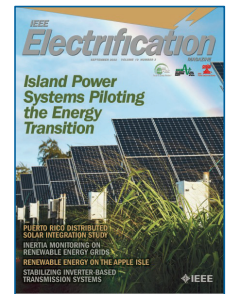
- ▶ Joseph Loring Professor & Founding Director of the Advanced Research Institute at Virginia Tech
  - Trained 80+ MS/PhD students & postdocs
- ▶ Served as a Research Engineer at the Tokyo Electric Power Company in 1992-1993
- ▶ Chair of the U.S. National Science Foundation Advisory Committee for International Science and Engineering from 2010 to 2013
- ▶ Served on the Virginia Governor's Executive Committee on Reduction of Energy Consumption in the Private Sector from 2015 to 2017



# My IEEE Experience

*IEEE Life Fellow*

- ▶ Inducted into Eta Kappa Nu as a PhD student at Virginia Tech
- ▶ 2018-2019 President of the IEEE Power & Energy Society
  - Established the IEEE PES Corporate Engagement Program, which allows employers to receive IEEE benefits by paying their employees' IEEE membership dues
  - Created IEEE PES Chapters' Councils in Africa, China, India, and Latin America to empower local leaders to initiate local programs
  - Led effort to establish the PES University, which offers courses, tutorials, and webinars to IEEE members
- ▶ 2006 VP IEEE Publication Services and Products Board
- ▶ Distinguished Lecturer for the IEEE Power & Energy Society, lectured in 30+ countries in six continents on Smart Grid, IoT, and Sustainable Energy
- ▶ Founding editor-in-chief of the [IEEE Electrification Magazine](#) and the [IEEE Transactions on Sustainable Energy](#)



# My Focus



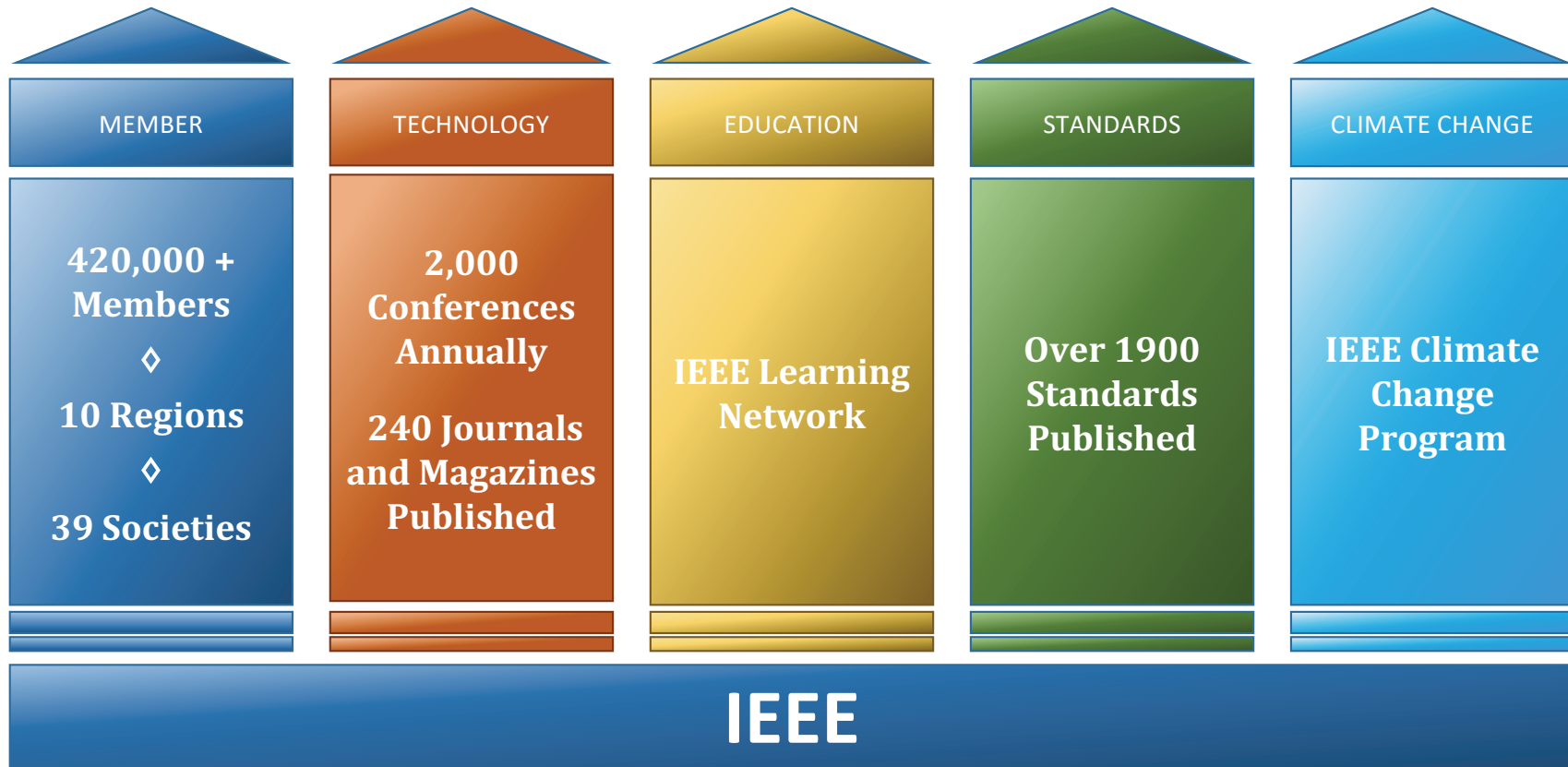




*IEEE 2023  
Board of Directors  
Retreat Focus*



## Synergy among IEEE's areas of focus





*Advancing Technology  
for Humanity*

**What Can We Do to Serve Humanity?**

**Clean-tech Solutions for Climate Sustainability**



# Climate Change

**IEEE:** Enabling Innovation and Technology Solutions



# IEEE Climate Change Program

<https://climate-change.ieee.org>



IEEE: Enabling Innovation and Technology Solutions

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[Climate Change in the News](#)

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MAKING A  
**DIFFERENCE**

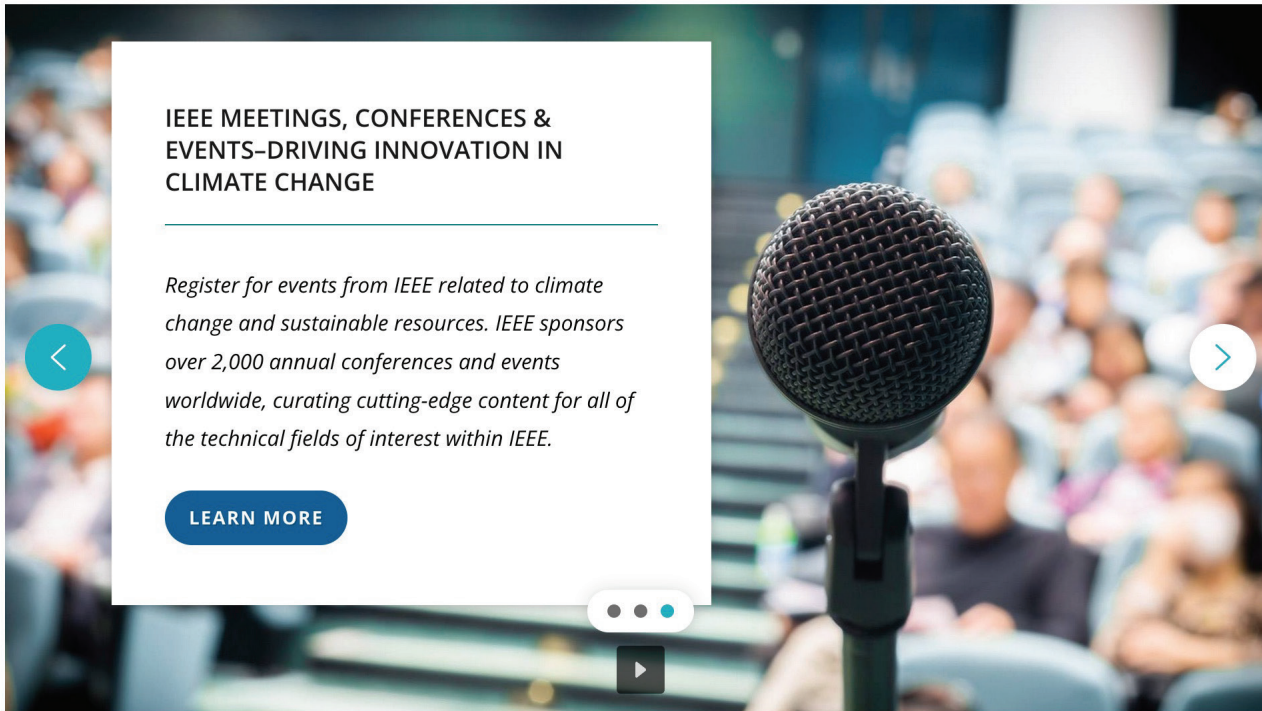
<b>TECHNICAL</b> Solutions	<b>BUILDING</b> Technical Community	<b>CLIMATE CHANGE</b> Mitigation
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email: [ccircc@ieee.org](mailto:ccircc@ieee.org)



IEEE: Enabling Innovation and Technology Solutions





**IEEE MEETINGS, CONFERENCES & EVENTS—DRIVING INNOVATION IN CLIMATE CHANGE**

*Register for events from IEEE related to climate change and sustainable resources. IEEE sponsors over 2,000 annual conferences and events worldwide, curating cutting-edge content for all of the technical fields of interest within IEEE.*

LEARN MORE

<https://climate-change.ieee.org>

# IEEE Climate Change Collection

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

Climate  
Change

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## RESOURCES FROM IEEE

As the world's largest organization of technical professionals, IEEE has both the opportunity and the responsibility to assist in organizing the response of engineers, scientists, and technical professionals across the world to address the causes, mitigate the impact, and adapt to climate change.

IEEE's scholarly publications, conference proceedings, technical standards, and other materials help foster the exchange of technical knowledge and information for the critical climate issues that our planet faces today.

View the IEEE Climate Change Collection in IEEE Xplore®

<https://climate-change.ieee.org>

Climate  
Change

IEEE: Enabling Innovation and Technology Solutions



# IEEE Climate Change Newsletter



IEEE: Enabling Innovation and Technology Solutions

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Sign up today to receive newsletters related to climate change.

First Name: \*

Last Name: \*

Email Address: \*



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<https://climate-change.ieee.org>





# Ecosystem for IEEE's Climate Sustainability Work

**IEEE Spectrum:** Climate Change News Feed; Podcasts; Features; Archives; Journal Watch Posts (Xplore); The Institute (Engineers of Climate Change); Coverage of Conferences and Standards

**IEEE Discusses 6 Simple Solutions to Climate Change at COP27** They include switching to LEDs and making coal plants more efficient

Simple, effective solutions that can help lessen the impact of climate change already exist. Some of them still need to be implemented, though, while others need to be improved.

## Social Media



## Sponsored Content From Industry

**Evolution of In-Vehicle Networks to Zonal Architecture**

In this webinar, you will learn more about:

- Evolution of In-Vehicle Network architecture
- Automated Ethernet characteristics
- Compliance testing of Ethernet
- Practical demonstration

**Xplore:** Engineers to Follow; Journal Watch Articles (free); Climate Change Articles

**Advancing Technology for Humanity**

IEEE CLIMATE CHANGE COLLECTION

Wenbin X. Ye, Davide Scaramuzza, and Ted Fred Wang

**Climate Change**

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**MAKING A DIFFERENCE**

TECHNICAL SOLUTIONS | BUILDING TECHNICAL COMMUNITY | CLIMATE CHANGE MITIGATION

IEEE's mission is to advance technology for the benefit of humanity. Today the world faces its largest modern-day threat—climate change. We recognize the global crisis and are committed to helping combat and mitigate the effects of climate change through pragmatic and accessible technical solutions and providing engineers and technologists with a neutral space for discussion and action.

COORDINATING IEEE'S RESPONSE TO CLIMATE CHANGE DEDICATED COMMITTEE

The 2022 IEEE Ad Hoc Committee to Coordinate IEEE's Response to Climate Change is identifying ongoing efforts across IEEE and collaborating with key external partners for a comprehensive response to climate change.

**Jobs From IEEE Job Site**

**IEEE JOB Site**

FEATURED JOBS

- Supply Management Specialist
- Senior Data Systems Architect and Implementation Specialist
- Health Project Manager - Senior PM - Asia PM

**Conferences**



**Standards**

**IEEE SA**  
STANDARDS ASSOCIATION

**Newsletters**

**IEEE Spectrum**

**Tech Alert**

Here's How Appronix is Making Their Humanooid Robot - Is now the right time for useful, affordable, general-purpose humanoid?

AI Goes To K Street: ChatGPT Turns Lobbyist - Automated influence campaigns could spell trouble for society.

**IEEE Technology Center for Climate**

**IEEE TECHNOLOGY CENTER FOR CLIMATE**

The Promise of Electrification

IEEE Technology Center for Climate

ITCC News

**IEEE Climate Change newsletter**

**Climate Change**

August 2023 IEEE Climate Change News

**Smart Cities Rely on Smart Infrastructure to Make People's Lives Better**

Smart Cities help urban environments to develop and grow by using modern technology including data-driven solutions, that provide a sustainable, resilient, equitable, and privacy-respecting community for its inhabitants.

Read More

<https://climate-change.ieee.org>

Advancing Technology for Humanity

# IEEE Technology Center for Climate Outreach

[IEEE.org](#) | [IEEE Xplore Digital Library](#) | [IEEE Standards](#) | [IEEE Spectrum](#) | [More Sites](#)



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CENTER *for Climate*

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**Hosted by Reuters News Agency**

## Webinar Series

### Empowering The Green Tech Revolution: From Design to Deployment

ITCC provides a platform to catalyze connections and ideas. Our upcoming and recent series with Reuters, *Empowering The Green Tech Revolution: From Design to Deployment* showcases the value of our approach in bringing leaders and experts together in thought-provoking, community, and partnership-building events. The webinar series explores how technology contributes to climate goals and sustainability.

EPISODE ONE

#### The Promise of Electrification

13 September 2023



# Participation in a Topical Webinar with Reuters

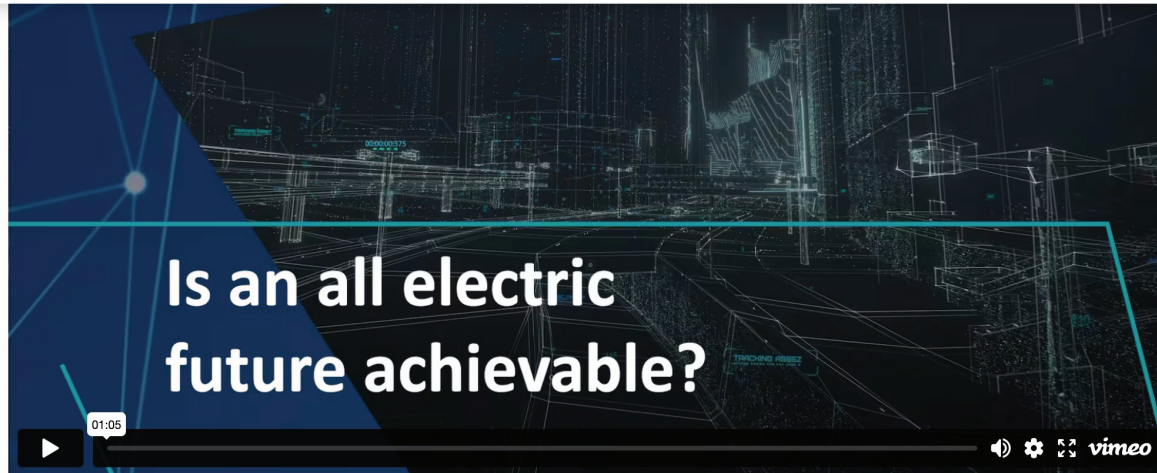
**IEEE TECHNOLOGY**  
**CENTER** *for Climate*

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## Panel

- Saifur Rahman, 2023 IEEE President and CEO
- Katharina Tomoff, Global SVP, Environment, Social & Governance (ESG), DHL Supply Chain
- Francisco Laverón Simavilla, Iberdrola Direction of Energy Policies Head of Energy Policy, Iberdrola
- Moderator: Ursula Woodburn, the Cambridge Institute for Sustainability Leadership Europe



# IEEE Climate Change Engagement Opportunities

## *Sections, Regions, Globally*



# The Climate Change Pavilions at Sections Congress in Canada and the IEEE TenCon Conference in Chiang Mai, Thailand



# Local Level Engagement on Climate Change

IEEE TVRI

IEEE ASEAN  
INDUSTRY  
ROUNDTABLE  
DISCUSSION  
ON CLIMATE  
CHANGE

ENABLING LEADERS  
TO BUILD A SUSTAINABLE FUTURE

27TH OCTOBER 2023

@TVRI Nasional



IEEE

# Carbon Neutral Campus

**Carbon Neutral Campus:** IEEE Pune Section launched the Carbon Neutral Campus program at 15 IEEE Student Branches

IEEE student members, faculty members, and environmentalists in Pune City have formed a group to compute the carbon footprint at engineering colleges.

There will be a roadmap to minimize energy consumption, water waste, canteen/cafeteria waste, etc.



# IEEE at UN COP28 Dubai, December 2023





# IEEE's Involvement in COP28 Related Activities in Dubai



القمة العالمية للاقتصاد الأخضر  
WORLD GREEN ECONOMY SUMMIT

28-29 November 2023 نوفمبر 29-28

COP27: China Pavilion

Transition finance and financial innovation  
for Carbon Neutrality



WORLD  
METEOROLOGICAL  
ORGANIZATION



IEEE GreenTech, Sustainability, and  
Net Zero Policies & Practices  
Symposium



# The Global Outreach of IEEE





## North Macedonia President Stevo Pendarovski

IEEE Milestone: First Robotic  
Control from Human Brain  
Signals, 1988 Ceremony  
Skopje, North Macedonia



# Mr. Han Zheng Vice President of China





## Her Royal Highness Princess Anne

IEEE/Royal Society of Edinburgh  
James Clerk Maxwell Medal  
Ceremony





BUCKINGHAM PALACE

10th November 2023

Dear Sir John,

The Princess Royal has asked me to write and tell you how much she enjoyed her visit to The Royal Society of Edinburgh and has asked me to thank you all for the warm welcome she received.

It was a fascinating morning and Her Royal Highness considered it a great honour to present medals to such distinguished and highly deserving recipients. What they have achieved in their lives is quite astonishing and of huge benefit to mankind.

The Princess was delighted to have the opportunity to meet so many of your guests and eminent professors and was very interested by the exhibition stands, enabling her to have a glimpse of some of the excellent work The Royal Society of Edinburgh does.

Please will you pass on Her Royal Highness's warmest thanks to Professor Sherratt and Professor Rahman as well as everyone else involved in the organisation of such a special event. The Princess Royal was also extremely grateful for the lovely book Professor Peter so kindly presented to her and very much looks forward to reading it.

Yours sincerely  
Anne Marie  
Lady in Waiting to  
HRH The Princess Royal

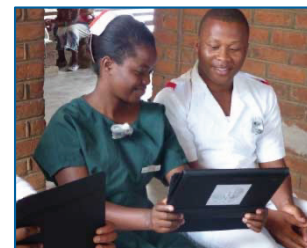
Sir John Ball

# Letter from Buckingham Palace to the Royal Society of Edinburgh



## IEEE Members Impact on Society

- ▶ The work of professional engineers, technologists, educators, young professionals, and students preparing for technical careers, will continue to be in high demand and have a great impact
- ▶ IEEE is committed to scientific and technical discovery and innovation that improves our standards of living and helps us care for each other and for our planet



## The Value of IEEE Membership

- ▶ Continue your journey to expand and increase your volunteer experience
- ▶ Engage with all of IEEE's activities, initiatives, and resources
- ▶ Inspire participation from fellow members and colleagues
- ▶ Celebrate our achievements and all that IEEE does for the benefit of humanity





# You can Impact the Future Success of the Organization

**CALL TO ACTION!**

- Volunteers are an essential part of IEEE
- Importance of recruiting and retaining volunteers
- Need diverse leaders to represent IEEE's dynamic communities
  - Women
  - Young Professionals
  - Technical breadth
  - Geographic reach
- The energy, innovation, and fresh perspectives you offer are essential



<http://www.ieee.org/volunteers>





Thank you

[www.srahman.org](http://www.srahman.org)

