

IEEE: Advancing Technology for Humanity

Invited Talk: Prime University, Dhaka, Bangladesh

Professor Saifur Rahman, IEEE Life Fellow

2023 IEEE President

20 March 2024

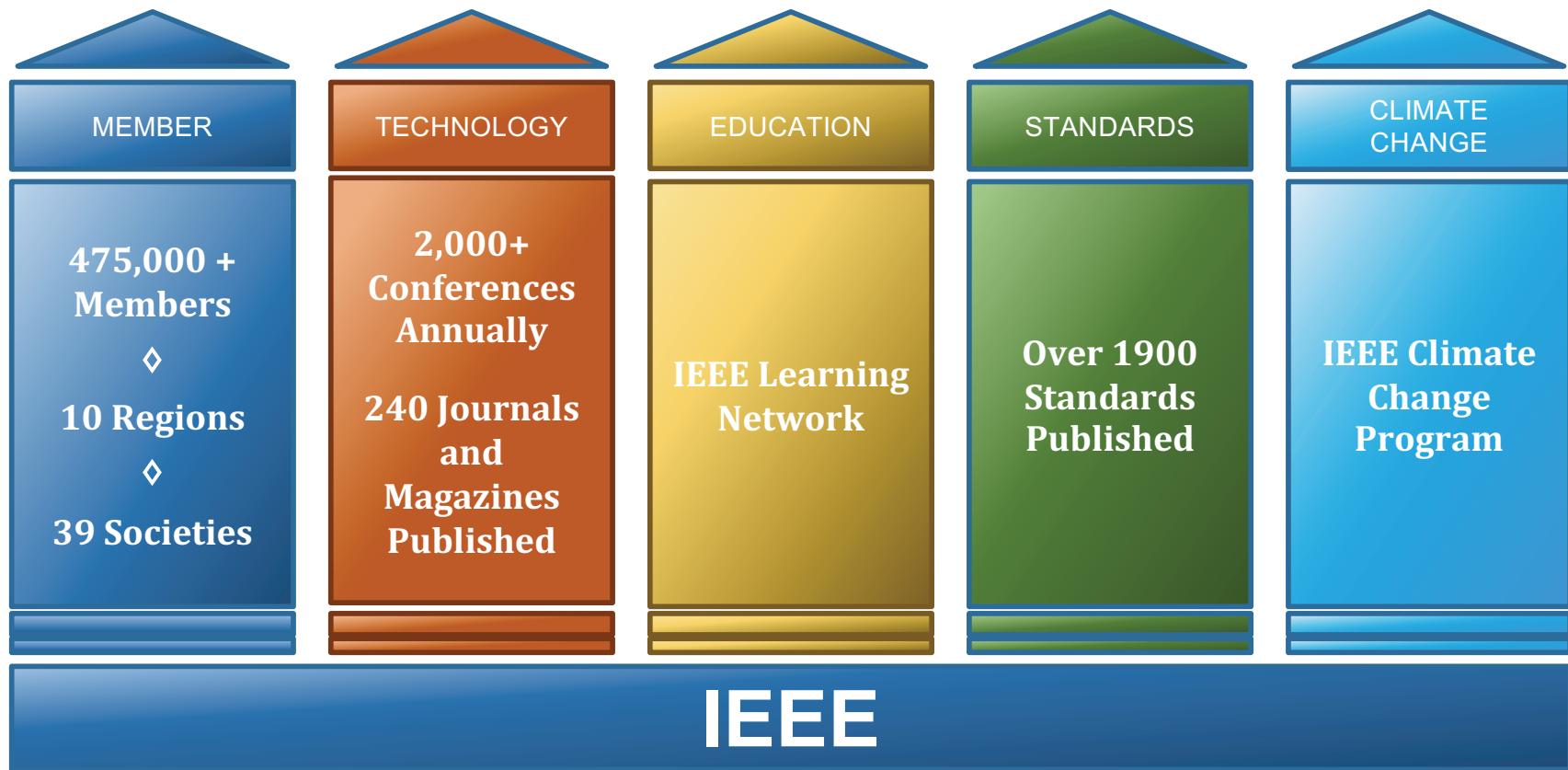




What Can We Do to Serve Humanity?

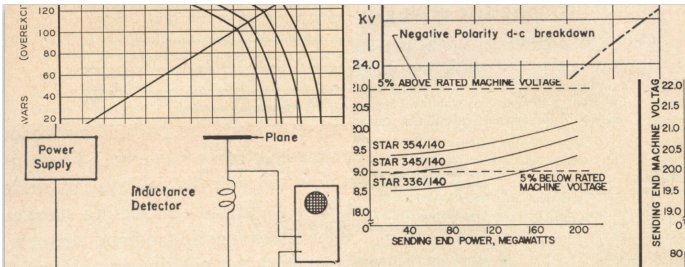


IEEE is a Mission-based Organization



		Membership Data for 2021 2022 2023				
		As of 31 December				
		2021	2022	2023	Increase 2021- 2023	
GSM	48,995	51,457	57,550	GSM	8,555	
UnderGrads	77,034	93,871	113,506	UnderGrads	36,472	
Total Students	125,989	145,328	171,056	Total Students	45,067	
HGM	283,665	282,452	289,653	HGM	5,988	
Total Members	409,654	427,780	460,709	Total Members	51,055	





INSPIRING TECHNOLOGY

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BREAKTHROUGHS

CELEBRATING 140 YEARS OF
ADVANCING TECHNOLOGY FOR
THE BENEFIT OF HUMANITY



IEEE students



IEEE

youngprofessionals™

<https://online.flippingbook.com/view/689251980/>





INNOVATE



COORDINATE

*IEEE 2023
Board of Directors
Retreat Focus*



COMMUNICATE



COOPERATE



Climate Change

IEEE: Enabling Innovation and Technology Solutions

IEEE Climate Change Program

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



Resources from IEEE

Climate Change in the News

Contact



MAKING A
DIFFERENCE

TECHNICAL Solutions	BUILDING Technical Community	CLIMATE CHANGE Mitigation
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email: ccircc@ieee.org



IEEE: Enabling Innovation and Technology Solutions





HRH Princess Anne: **What is IEEE?**

**IEEE Promotes Clean-tech Solutions
for Climate Sustainability**

“When we build connections between people, we ultimately accelerate the transfer of knowledge.”

Saifur Rahman
IEEE President and CEO



Talk at the European Union
Sustainable Energy Week
Brussels, June 2023



An IEEE Mathworks joint Webinar

MathWorks **IEEE**

Webinar: Uniting to Tackle Climate Change Through Electrification

Date: Wednesday, October 19th @11:00am EDT

Saifur Rahman
IEEE

Anne White
MIT

Adile Ajaja
EVLO Energy Storage

Gurunath Kedar
Dana

Nick Goberville
Argonne National Laboratory

Tanya Morton
MathWorks

Promoting Diversity and Inclusion in Climate Change and Sustainability

Wednesday, June 28th 10:00 AM EDT

Panelists



Saifur Rahman, Ph.D.
President and CEO, IEEE



John Verboncoeur, Ph.D.
VP, IEEE Technical Activities Board



Surekha Deshmukh, Ph.D.
Chair, IEEE Climate Change
Subcommittee - Global Visibility



Maïke Luiken, Ph.D.
Chair, Planet Positive 2030 Initiative
Co-Chair, Climate Technologies
Sustainability Initiative



Sally Musonye
Committee Member, IEEE Region 8
(EMEA) Women in Engineering



Larissa Paredes Mus
Street Lighting and Smart Cities
Consultant at Quanta Technology

Moderators



Rushali Thakkar
Committee member, IEEE
WIE Ad Hoc on Climate
Change and Sustainability



Sneha Hegde, Ph.D.
Communication Team
Lead, IEEE YP CSTF



SCAN TO REGISTER

Via Webex
Webinar # 2634 155 6778



- ▶ Fostering collaboration between the IEEE Women in Engineering and the Young Professionals Climate Sustainability Task Force and their initiatives.
- ▶ Helping to facilitate knowledge sharing, inspire action, and strengthen collective efforts for the purpose of promoting and ensuring diversity and inclusion towards addressing climate and sustainability challenges.

Examples of Global Engagements

IEEE's Presence at the

UN Conference on Climate Change (COP27 and COP 28)

Sharm El Sheikh, Egypt, November 2022

Dubai, the United Arab Emirates, December 2023





The global engineering view: Delivering an equitable, sustainable and low carbon resilient world

November 10, 2022 / 11:30 – 13:00 am Egypt time (GMT + 2) / 10:30 – 12:00 CET (GMT + 1)



Davide Stronati
Chair, WFEO
Committee on
Engineering and the
Environment



Jianping Wu
Member, WFEO
Committee on
Engineering and the
Environment



Valentina Putrino
Member, WFEO
Committee on Disaster
Risk Management



Saifur Rahman
Virginia Tech
Advanced Research
Institute, 2022 IEEE
Presidents-Elect



Tariq S Durrani
University of
Strathclyde, Life
Fellow of IEEE



Afraz Farooque
School of Climate
Change and
Adaptation

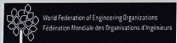
This is a Side Event organized by the World Federation of Engineering Organizations (WFEO) in collaboration with the Engineering Institute of Canada (EIC) and IEEE.

The speakers will cover the following topics:

- Exploring the engineering role in building climate resilience of cities and reducing risk for local communities.
- Understanding decarbonization through the lens of both industrialized and emerging economies, utilizing low carbon energy solutions.
- Showcasing the importance of women and future leaders.

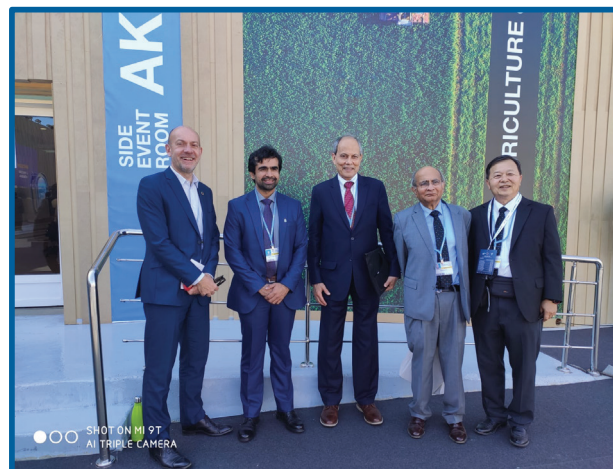
The event will take place in the Akhenaten room.

The event is organized by:



Learn more about how IEEE is making a difference at ieeecomclimatechange.org.

COP27 Side Event





Global Alliance of Universities on Climate

Climate
Change

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IEEE: Enabling Innovation and Technology Solutions



Partnership with International Renewable Energy Agency (IRENA)

Founding Partners: Energy Transition Education Network

ETEN Founding Partners

Convened by: IRENA International Renewable Energy Agency

Partners: UNESCO

Teach For All
A Global Network

unicef for every child

Higher Education Sustainability Initiative

HESI+10 Celebrating 10 years with Higher Education Sustainability Impact

IEEE Advancing Technology for Humanity

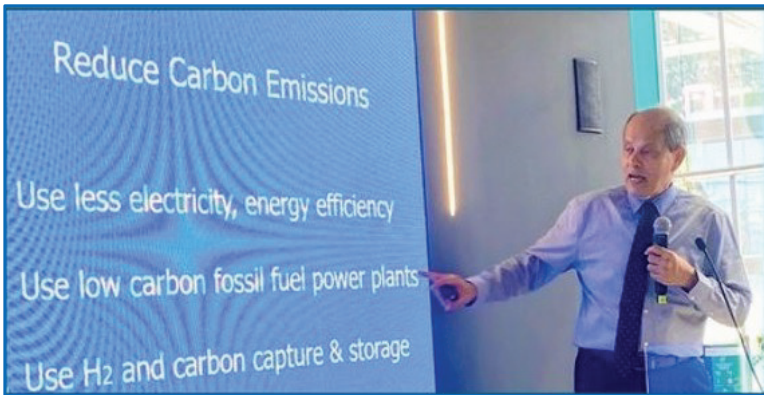
ENERGY TRANSITION EDUCATION NETWORK

IRENA at COP27





Speech in the UNFCCC Pavilion
on World Energy Day
COP27 15 November 2022



COP28
UAE



Energy Transition

Rotary Pavillion - 1st Floor, Zone B7

Building 89, near COP28 Health Pavilion

December 5th - 11:00am



Salvador Roca



Yves Laffite
President USA Association
of Rotary Clubs



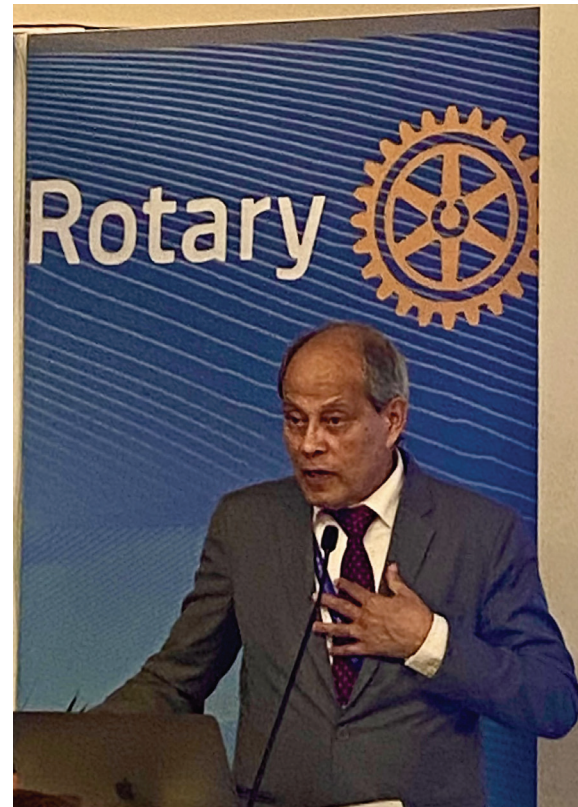
Prof. Saeed Rahmani
President of IEEE



Helmut Voss Struven
CEO Siemens



COP28
UAE



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

Climate Change

Resources from IEEE | Climate Change in the News | Contact | IEEE

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 this 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

Conferences



Standards

IEEE SA

STANDARDS ASSOCIATION

Newsletters

IEEE Spectrum

Tech Alert

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

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

IEEE Technology Center for Climate for Climate

IEEE TECHNOLOGY CENTER FOR CLIMATE

The Promise of Electrification

IEEE Technology Center for Climate

ITC Pillars

IEEE Climate Change newsletter

Information from IEEE to Help Sustain Our Planet

Climate Change | IEEE

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

IEEE
140
1884 - 2024
YEARS

*Celebrating **140 Years**
of Advancing Technology
for Humanity*

