

Climate Change

IEEE: Enabling Innovation and Technology Solutions



Addressing All Encompassing Aspects of Climate Change

Professor Saifur Rahman, IEEE Fellow

2023 IEEE President & CEO

2023 Science Summit at United Nations (UN) 78 General Assembly (GA)

19 September 2023

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All Encompassing Aspects of Climate Change



- A topic that encompasses various aspects of science, engineering, technology, policy and societal impact and brings to the forefront many issues:
 - Greenhouse gas emissions, temperature rise, renewable energy, land use
 - Ocean acidification, ocean warming, and extreme weather events
 - Mitigation, adaptation, and resilience
 - Social and economic impacts
 - Technological innovations, and more

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*Advancing Technology
for Humanity*

What Can We Do to Serve Humanity?

Promote Clean-tech Solutions for Climate Sustainability

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IEEE's Engagement in Addressing Climate Change



Mission-based Challenge

- Pragmatic and accessible technical solutions are urgently needed to address climate change
- We, as engineers and technologists, are uniquely prepared to provide technical solutions and offer a neutral space for discussion and action

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What IEEE Brings to the Challenge

- Commitment to the constant pursuit of innovation and excellence for the benefit of humanity
- The technical expertise of IEEE members and volunteers from across IEEE OUs
- The power of IEEE's collaborative platforms to enable innovation with purpose
- Longer-term IEEE engagement in creating and promoting technical solutions and applications for addressing climate change

Deploying Resources to Address Climate Change

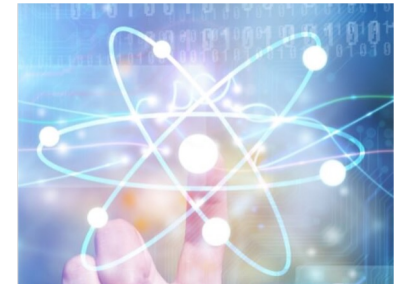
There is growing interest and activities across IEEE in helping to combat and mitigate the effects of climate change through:

- Information sharing and thought leadership
- Providing spaces for discussion, ideation and action
- The development of pragmatic and accessible technical solutions

Resulting in a burgeoning IEEE climate change program and the opportunity to amplify the collective IEEE footprint.

Engaging and mobilizing the 400,000+ members in 190 countries of the world in climate change issues and solutions.

Bringing to bear the expertise of the communities of IEEE and their respective outputs.



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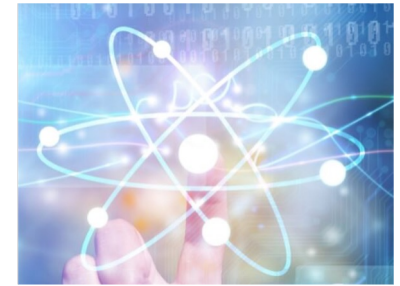
External Outreach to Address Climate Change

IEEE engages in various fora on the topic and is sought after for its technical content, thought leadership, and expert communities, including in such global stage events as:

- United Nations Framework Convention on Climate Change Conference of the Parties (COP)
- The International Renewable Energy Agency (IRENA)
- European Green Coalition and Sustainability Energy Week

Working to engage and coordinate with cross-disciplinary engineering communities (civil, mechanical, chemical, mining, etc.) on a global scale.

IEEE has many publications and conferences addressing and incorporating climate change and sustainability.



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The Ocean's Importance in the Climate Change Dialogue



Immense Capacity to Influence and Regulate Earth's Climate System

- Absorbs substantial portion of the excess heat trapped by greenhouse gasses in atmosphere
- Redistributes heat around the planet
- Serves as a vast carbon sink, absorbing a significant portion of the carbon dioxide released into the atmosphere
- Influences weather patterns and provides a vital ecosystem service

Our efforts can be the seeds to help combat and mitigate the effects of climate change through pragmatic and accessible technical solutions and by providing engineers and technologists with a neutral space for discussion and action.



**IEEE Oceanic
Engineering Society**

Ecosystem for IEEE's Climate Sustainability Work

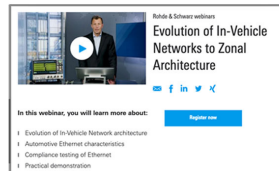
IEEE Spectrum: Climate Change News Feed; Podcasts; Features; Archives; Journal Watch Posts (Xplore); The Institute (Engineers of Climate Change; Coverage of Conferences and Standards)



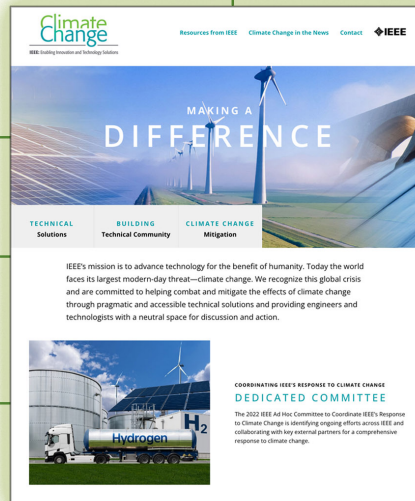
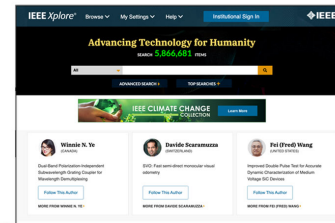
Social Media



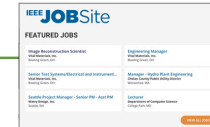
Sponsored Content From Industry



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



Jobs From IEEE Job Site



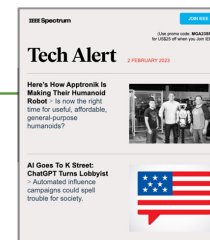
Conferences



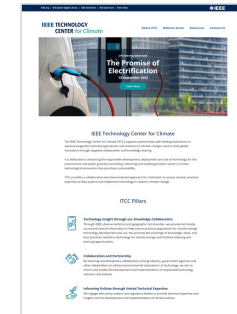
Standards



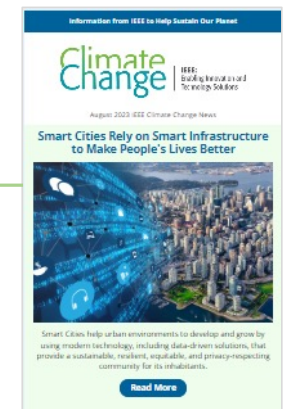
Newsletters



IEEE Technology Center for Climate



IEEE Climate Change newsletter



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Thank You