



Activities of the WFEO Committee on Engineering and the Environment, 2021-2023

Summary: Since November 2021, the CEE has held meetings every few months, with a select group meeting additionally in the lead up to each UNFCCC conference, to prepare WFEO's contribution. General CEE meetings focus on the actions and progress of projects led by Theme Leaders.

The work of the Committee on Engineering and the Environment (CEE) is aimed at enabling WFEO and the global engineering profession to support the achievement of the UN Sustainable Development Goals through the development, application, promotion and communication of:

1. Environmentally sustainable and accountable engineering practices and technologies;
2. The adaptation of infrastructures to the impacts of a changing climate (SDG 13), decreasing resources and increased populations;
3. Assessing and promoting engineering practices to mitigate climate change (SDG 13);
4. Coordinating perspectives on the engineering required to deliver SDGs 6, 7, 9 and 11;
5. Policy frameworks, sets of guidelines and best practice for practicing engineers on responsible environmental stewardship and sustainable and ethical practices in various areas of engineering practice.

Since 2021, the CEE has continued work on SDG 13 'climate action', primarily through its participation in UNFCCC events alongside other WFEO Standing Technical Committee representatives.

Members of the CEE attend and present at all United Nations Framework Convention on Climate Change (UNFCCC) Conference of the Parties (COP) meetings, and at all intersessional Bonn Climate Change Conferences to promote the role of engineers in combating climatic uncertainty.

Most recently, the CEE hosted [an event in Bonn](#) on 5th June 2023, in partnership with the WFEO Standing Technical Committee on Energy, the Engineering Institute of Canada (EIC), the Institute of Electrical and Electronics Engineers (IEEE) and the European Business Council for Sustainable Energy (e5). The event was titled "Energy and Climate Change: Global Stock take – the Engineering Community Perspective" and can be watched [on demand](#).

The Committee is currently preparing for participation to COP 28, through engagement with the WFEO Standing Technical Committee on Young Engineers/Future Leaders.

The WFEO CEE organizes and participates in webinars. CEE webinars have been held in 2022 and 2023, with participation from all other WFEO STCs and external organisations such as the International Coalition for Sustainable Infrastructure (ICSI) and the Commonwealth Engineers Council (CEC).

The CEE contributes expert knowledge to global reports, most recently to FIDIC's State of the World report; "Navigating the Digital Journey to Reducing Carbon".

The CEE has two working groups, one on Climate Adaptation and one on Climate Mitigation. The aims of these groups are to advance specialist projects and provide expert advice to external stakeholders. The members of these groups are spokespeople for WFEO on the subject of Climate Change.



Climate Change Adaptation Task Group

This group is led by Darrel Danyluk, an independent advisor to the CEE, and firstly aims to promote [The Code of Practice on Principles of Climate Change Adaptation for Engineers](#) by engaging with National Members. Each year, Engineers Canada and Polytechnique Montreal have continue their Massive Open On-Line Course “Sustainability in Practice”. This course presents the principles explained in the WFEO Model Code of Practice for Sustainable Development and Environmental Stewardship. The principles have recently been updated, and the document has been renamed the *Code of Practice for Climate Adaptation and Resilience for Engineers*. The updated version is in consultation phase. Work is progressing on an accompanying Interpretive Guide.

Climate Change Mitigation Task Group

The WFEO Climate Change Mitigation Best Practice Project is led by Prof. Wu of CAST. This project is aimed at mitigating climate change on our planet. The Climate Change Mitigation Best Practice Project will build a database/collaborative platform to collect, organize and store successful engineering projects, plans and ideas from WFEO national members and partners. The project mainly focuses on civil and construction engineering.

Highlights

Event hosted at COP 27 in Egypt in November 2022, in partnership with the Institute of Electrical and Electronics Engineers and Engineering Institute of Canada. The event was titled *The global engineering view: Delivering an equitable, sustainable and low carbon resilient world.*



WFEO webinar on Climate Change

December 5, 2022 / 12:00 PM (GMT) / 13:00 PM CET - Register: bit.ly/3gKxP9Q



Davide Stronati
Chair, WFEO
Committee on
Engineering and the
Environment



José Vieira
WFEO President



Valentina Putrino
Member, WFEO
Committee on Disaster
Risk Management



**Jean Eudes
Moncombe**
Chair, WFEO Committee
on Energy



**Ignacio Gonzalez-
Castelao**
Chair, WFEO Committee
on Water



Kirilis Holstovs
Member, WFEO Committee
on Young Engineers /
Future Leaders



Jianping Wu
Member, WFEO Committee
on Engineering and the
Environment



Marlene Kanga
WFEO President
2017-2019



Dawn Bonfield
Deputy Chair, WFEO
Committee on Women
in Engineering



Yetunde Holloway
Chair, WFEO
Committee on Women
in Engineering

Webinar on Climate Change on 5 December 2022.

Speakers were representatives from WFEO Standing Technical Committees actively involved in the achievement of the UN Sustainable Development Goals.



Event hosted at COP 26 in Glasgow, November 2021 in partnership with the International Network of Women Engineers and Scientists (INWES) and the Engineering Institute of Canada (EIC). The event was titled *Increased climate action, building resilience and lowering emissions: Lessons learned.*



Event hosted in Bonn in June 2023, in partnership with the Engineering Institute of Canada (EIC), the Institute of Electrical and Electronics Engineers (IEEE) and the European Business Council for Sustainable Energy (e5). The event was titled “Energy and Climate Change: Global Stock take – the Engineering Community Perspective”.