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WFEO COMMITTEE ON ENGINEERING AND THE ENVIRONMENT: STRATEGIC PLAN 2019-2023

1 INTRODUCTION

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 clean technologies and engineering practices to mitigate climate change (SDG 13);
- 4) Coordinating perspectives on the engineering required to deliver SDGs 6 on clean water and sanitation, 7 on affordable and clean energy, 9 on industry, innovation and infrastructure and 11 on sustainable cities and communities. This will be delivered in coordination and collaboration with the other WFEO Standing Technical Committees;
- 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.

The main outputs of our strategy will be aligned to SDG 13, with a 'watching brief' on SDGs 6, 7,9,11 and 13. Activity in these areas will be carried out by the CEE task groups as indicated below, in conversation and collaboration with the other relevant WFEO Standing Technical Committees

The CEE has also developed two model codes of practice in both sustainable development and climate change adaptation.

The Model Code of Practice: Principles of Climate Change Adaptation for Engineers is available [here](#);

The WFEO Model Code of Practice for Sustainable Development and Environmental Stewardship is available [here](#);

It is the CEE's intention to further promote use of these codes of practice amongst WFEO's members and related organisations.

UN SDGS SUPPORTED



FOCUS

The CEE has chosen to focus its efforts on SDG 13 – Climate Action. In particular the following indicators;

13.2 Integrate climate change measures into national policies, strategies, and planning

13.3. Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

These indicators will be supported by established task groups, one on Climate Change Adaptation and one on Climate Change Mitigation.

SUPPORT

Also the Committee recognises the importance of coordinating their efforts with activity in SDGs 6, 7, 9 and 11. This will be managed through CEE members that are tasked with being the representative for liaising with the STC that leads on each of these SDGs. Eg. Reporting back on the work on the Energy STC on SDG 7 or reporting back on the work of Innovative Technologies STC on SDG 9, as well as looking at how CEE can contribute to each of these STCs in return.



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OUTPUTS

CLIMATE CHANGE ADAPTATION

The Climate Change Adaptation group represents WFEO at the UNFCCC intersessional meetings and the conference of parties' meetings (COP) They attend the events and arrange side events to share engineering best practice from WFEO members on climate change adaptation. This group has also developed the climate change code of practice which they continue to promote and will seek to update in 2020.

CLIMATE CHANGE MITIGATION

The work of the climate change mitigation group has to date been a collaboration with a group of volunteers running a project called future climate engineering solutions. This group looks at national energy plans and how engineers can help governments by providing the engineering basis for national energy plans. Do carbon reduction plans match the reality of the engineering required? This work will be continued over the next 4 years with more WFEO members sharing their national carbon reduction plans.

OTHER ACTIVITY

CEE will also continue to support members carrying out activity addressing issues on global sustainability, for instance Tunisia is organizing an international conference on engineering and food security in Africa in June 24/25 2019.

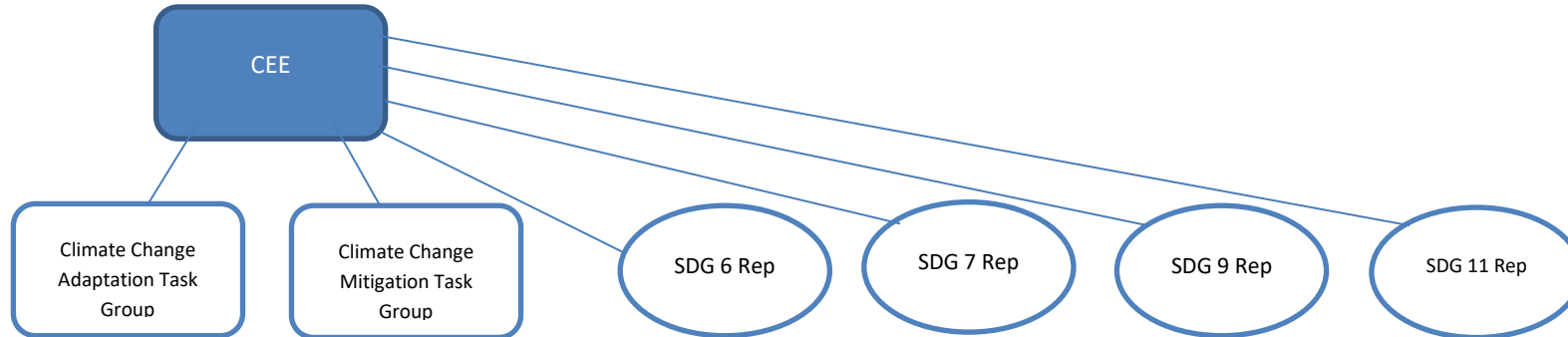
From 2022 work will also start on succession planning to ensure that a smooth handover can take place in 2023.

CEE MEETINGS

Work of the CEE will be managed through annual face to face meetings with teleconferences scheduled regularly throughout the year. CEE will also encourage and nominate members to present papers at the annual conference as they did at GEC and will be doing at WEC.

STRUCTURE

The suggested structure of the CEE is given in the diagram below.



MEMBERSHIP

Current active membership is listed in Appendix A.

As this appendix demonstrates there are a core group of active members however a great number of WFEO member nations are not represented on the CEE.

There are currently circa 15 countries regularly attending as core members from WFEO's national membership of 93 countries.

It is an ongoing task of the CEE secretariat to ensure that a stable point of contact is made with each of the WFEO member nations and to increase engagement across all WFEO member nations.

Ensuring adequate travel funds are available for the Chair to attend appropriate Executive Board, Executive Council, and the General Assembly meetings,

Ensuring that the Committee delivers outcomes that are relevant to the Federation and the satisfactory performance of the Committee that aligns with the strategic objectives of the Federation.

BUDGET

Provided by ICE – circa £16k per annum

PUBLICATIONS

Twice a year the CEE will produce a newsletter that updates WFEO members on activity. This will include updates from each working group as well as reports from the SDG liaison members. It will also include a review of the recent papers and journal articles related to Climate Change produced internationally.

CONFIRMATION OF COMPLIANCE WITH WFEO RULES OF PROCEDURE

This strategy document aligns with relevant clauses (3.2, 2.4 and Annex C) of the WFEO rules of procedure.

APPENDIX A

Membership list;



national
members.xlsx