



Minutes of WFEO Energy Committee Meeting

July 7, 2021 - videoconference

Attendee list (to be confirmed):

Carsten Ahrens

Bakr Bahaj

Théophane Bélaud

Joseph Byukusenge

Massimiliano Capezzali

Pradeep Chaturvedi

Francis Cheng

Richard Coackley

Donald Dhondee

Kim Faithfull-Wright

Daniel Favrat

François Giger

Yogi Goswami

Qinglai Guo

Imad Jarmouni

Collins Juma

Andrew Kadak

Ruomei Li

Jacques de Méreuil

F. C. Ogolo

Daniel Prieto

Mustafa Shehu

Jorge Spitalnik





Agenda

- 1. Welcome
- 2. Approval of 21 April meeting's minutes
- 3. Energy transition & Covid-19 crisis: the role of engineers
- 4. Contribution to COP26
- 5. Platform & Communication
- 6. Task Groups; review of work in progress
- 7. Next meeting: 14 October 2021, 14:00 16:00 Paris time (12:00 14:00 GMT)

1. Welcome

Intervention of Jacques de Méreuil:

- ✓ The next WFEO general assembly was postponed to March 2022 in Costa Rica.
- ✓ WFEO is working on the High-Level Political Forum (HLPF) held in New York (July 2021).

2. Approval of 21 April meeting's minutes

Minutes of 21 April meeting's approved.

3. Energy transition & Covid-19 crisis: the role of engineers

This conference will be held over two days, **October 6 and 7, 2021, from 13:00 to 16:00 Paris time** to allow the participation from the five continents.

- Wednesday October 6th, 2021
 - ✓ Introduction Opening: Prof. Gong Ke, WFEO President
 - ✓ Session 1 Resilience of energy systems to Covid-19 crisis: experience feedback

All along the Covid-19 crisis, energy supply in all countries and World regions has been ensured at any time. Hence, on one hand, the pandemic has highlighted that the underlying energy systems, technologies and transport systems are substantially resilient, although this has required a proactive engagement from energy utilities in this unpredictable context. On the other hand, the continuous and stable energy supply has enabled the sanitary sector to work on its gargantuan effort, by powering critical hospital infrastructures, as well as other crucial activities. How did this happen and what has been concretely put in place to manage the crisis situation?

✓ Session 2 - A larger definition for resilience: a new understanding of risks

The Covid-19 pandemic disrupted our economies and lifestyles, but the climate emergency or the loss of biodiversity are still with us. But health risks and cyber risks are examples of new threats to the resilience of energy systems. How have these "new" risks been sufficiently taken into account? How are they integrated into our thinking and how do they modify our understanding of the transitions we are experiencing?





• Thursday, October 7, 2021

✓ Session 3 - Energy demand: evolution or disruption?

The Covid-19 crisis included new threats linked to its easy transfer between humans and between materials and humans. This introduced social constraints affecting primarily either public transportation or safety requirements in building air-conditioning and maintenance. It introduced new or reverse trends, that might influence our societies beyond the covid crisis itself. Examples are the preference for safer transportation or the trends towards decentralized greener and less dense habitats.

The reliance on internet-based channels but also on new locally-based shopping venues has impacted the previous equilibrium, but does this mean that these changes will remain at the end of the crisis or that elasticity phenomena will bring back incumbent actors and behaviours?

✓ Session 4 - On the supply side: the demands of the citizens

Two major questions concerning the behavior of citizens will determine the paths of future transitions:

- globalization has been identified as partly responsible for the current crises: will we continue along the path of what some describe as unbridled globalization, or will we return to lifestyles refocused on the local, or will we find a more balanced path?

- cooperation and solidarity are values that have returned to the public debate: once the crises are over, will we keep the memory of them in mind in order to build our after pandemia world?

✓ Roundtable: Lessons learned so far: the role of engineers

It is essential to develop sustainable, resilient and inclusive energy systems. Reflections must be based on facts, rigorous and without preconceptions.

To achieve these objectives, all energy options are possible, depending on national contexts. Engineers have a role to play in informing choices by adopting systemic approaches that put forward mature, immediately available technologies that contribute significantly to the fight against climate change and biodiversity loss.

In the current context related to the Covid-19 pandemic, it is important to use simple and transparent economic criteria such as, for example about climate, the cost per ton of CO_2 avoided.

Speakers' interventions must not exceed 20 minutes; each session will include Q&A. Proceedings of the conference will be written and published; they will be freely accessible on the WFEO website.

Speaker' selection

A call is launched to the members of the energy committee to propose speakers for the different sessions. Proposals must be accompanied by a biography of the proposed speaker and a text presenting a summary (less than 1500 signs including spaces) of the main lines of his or her intervention which is necessarily a precise and argued contribution to one of the sessions. It will be very important to have proposals from developing countries in order to keep in mind the major challenge of energy access and to move towards gender parity.

Proposals should be sent to energy@wfeo.org before July 31, 2021 to be considered by the organizing committee.

Members can ask an advice to the organizing committee before contacting the potential speakers.

Members can propose speakers for each of the four sessions or the roundtable.





They can also propose keynote speakers for the introduction of the colloque but the selection criteria are different.

[Note added after the meeting: The videos and presentations of the symposium are now available : <u>https://www.wfeo.org/wfeo-committee-on-energy-symposium-energy-transition-and-covid-19-crisis-the-role-of-engineers/]</u>.

4. Contribution to COP26

Proposition for a WFEO-CE contribution (to be coordinated with the Committee on Engineering and the Environment (CEE)):

- to proceed to a rigorous critical reading of the International Energy Agency (IEA) report "Net Zero by 2050" (available in Pcloud) and in particular of the technical and economic assumptions
- to write precise and argued proposals that could usefully contribute to the discussions.

✓ 1st step: call for reviewers

The report is divided into six sectors.

Sector	Pages of report
Fossil fuels supply	100-104
Low emissions fuel supply	104-112
Electricity sector	113-120
Industry	121-130
Transport	131-140
Buildings	141-150

The pages indicated refer to specific parts of the report that deal with these areas. It is likely that these themes are also sometimes addressed elsewhere in the report.

Reviewers can make comments for several parts of the report but don't write too general things at this step.

Each contributor is asked to send a maximum of two pages of specific comments to <u>energy@wfeo.org</u> **before August 31**. Please indicate which of the 6 sectors your contribution relates to.

✓ 2nd step: ad hoc meeting

Friday 17th September – 14:00-16:00 Paris time – ad hoc Zoom meeting.

The objective of the meeting is to share the results of the first step (review of comments) and discuss the messages that could be brought to the COP26.

[Note added after the meeting: This meeting was cancelled because no contributions were sent.]





5. Platform & Communication

A short tutorial "How to use Pcloud" is now available and has been send to the members.

6. Task Groups; review of work in progress

The progress of the Task Groups will be discussed during next meeting.

7. Next meeting

14 October 2021, 14:00 – 16:00 Paris time (12:00 – 14:00 UTC): this meeting was postponed.

The next meeting will be held on:

Thursday, November 18, from 2:00 to 4:00 p.m. Paris time online.

Available on Pcloud:

- ✓ the slides presented during the 7 July, 2021 meeting (Folder General)
- ✓ "How to use Pcloud" tutorial (Folder General)
- ✓ the IEA report "Net Zero by 2050" (Folder Contribution to COP26)
- ✓ the call for speakers for the webinar "Energy transition & Covid-19 crisis: the role of engineers" (Folder Conference Energy transition & Covid-19 crisis)

Added on Pcloud since the 7 July meeting:

- ✓ Symposium speakers' presentations (Folder Conference Energy transition & Covid-19 crisis)
- ✓ WEC (World Energy Council) studies about hydrogen (Folder Hydrogen Task Group)