



Committee on Energy



Minutes of WFEO Energy Committee Meeting

April 21, 2021 - videoconference

Attendee list (to be confirmed):

Jean Eudes Moncomble, Chair

Cloé Bosc, Meeting secretary

Bakr Bahaj

Joseph Byukusenge

Massimiliano Capezzali

Francis Cheng

Edwin Chesire

Richard Coakley

Donald Dhondee

Daniel Favrat

François Giger

Yogi Goswami

Carlos Herrera

Imad Jarmoumi

Ivan Juiz

Collins Juma

Jaques de Méreuil

Ruomei Li

Fyne Chima Ogolo

Philip Pascall

Qinglai Guo

Jorge Spitalnik

John Thomson

Yongning Chi



Committee on Energy



Agenda

1. Introduction
2. Approval of 21 January meeting's minutes
3. Organization of CE international event: "Energy transition & Covid-19 crisis: the role of engineers"
Massimiliano Capezzali
4. Task Groups; work in progress
 - Energy internet – *Hongbin Sun*
 - Energy storage – *Philip Pascall*
 - Sustainable energy – *Pradeep Chaturvedi* – to be confirmed
 - Hydrogen – *Jean Eudes Moncomble*
 - Solar – *Carsten Ahrens* – to be confirmed
5. Sustainability & Resilience
Jean Eudes Moncomble
6. Implementation of the CE platform
7. Next meeting: July 7, 2021, 12:00 – 14:00 GMT

1. Introduction

JEM discussed before this meeting with Gong Ke (WFEO president), Marlene Kanga (last president), Jose Viera (president elect) and Jacques de Méreuil (executive director):

- The presidential team has a strong demand for a production of documents, position papers... It will give more visibility to Committee on Energy to have a more active policy of production of documents.
- There is a strong interest of the presidential team for electrification, mainly in developing countries.

2. Approval of 21 January's meeting's minutes

Minutes approved.

Committee on Energy secretary now produce first a short paper with the main information of the last meeting ("last meeting in a nutshell") and send the minutes later.



Committee on Energy



3. Organization of CE international event: “Energy transition & Covid-19 crisis: the role of engineers”

Presentation by Massimiliano Capezzali:

- We want to cover all aspects linked to energy and covid. Energy has helped facing covid crisis and the energy companies have reacted very well.
- We also want to insist on how covid could or will change the world (concept of resilience; new demands and new patterns) and on what the role of engineers could be.

Date (to be confirmed): during Autumn 2021

Format:

- A virtual conference
- 2 or 3 half days

Organization:

- Call for speakers based on a short overview of the proposed presentation
- Proceedings of the conference

Sessions:

Each session: roughly one hour – 2 or 3 speakers (to be adapted)

1. Resilience of energy systems to Covid-19 crisis: experience feedback
2. A larger definition for resilience: a new understanding of risks
3. Energy demand: evolution or disruption?
4. On the supply side: the demands of the citizens
5. Lessons learned so far: the role of engineers

Organizing Committee (to be completed): Massimiliano Capezzali, Daniel Favrat, Jean Eudes Moncomble, Jorge Spitalnik

Comments:

We have to avoid “fearmongering” and take all the necessary scientific precautions. Committee on Environment is leading the activities related with COP process within WFEO (side events...). A declaration has been written by the Committee on Environment on the urgency of combating climate change (available on WFEO website). Maybe a complementary focus on the energy side could be useful.

Members can now join the organizing committee, think about each session in details and give speakers ideas.

4. Task Groups; work in progress

Jean Eudes Moncomble, CE Chair, ask to each CE member to join a Task Group. Please indicate by mail (energy@wfeo.org) in which group(s) you want to work.

- 2 Task Groups are in pause: Nuclear and CCUS.
- Sustainable energy Task Group is relaunched (Chair: Pradeep Chaturvedi).



Committee on Energy



- The others Task Groups go on (Solar, Energy internet, Energy storage, Hydrogen, Electrification).

Task Group	#		
Solar	3	go on	Carsten Ahrens
Nuclear	1	pause	-
Energy internet	4	go on	Hongbin Sun
CCUS	3	pause	-
Energy storage	5	go on	Philip Pascall
Hydrogen	9	go on	-
Electrification	5	go on	Abubakar Sambo
Sustainable energy		launch	Pradeep Chaturvedi

Comments:

Since the meeting:

- Chairs and editors of the Tasks Groups have received the emails of members registered in their TG.
- The registration list is available on Pcloud.

It is important now that Task Groups produce documents.

- Energy storage – Philip Pascall

The presentation document is available in Pcloud: “Some notes about energy storage_Philip Pascall_20210206”.

Comments:

Storage is important both for baseload power and intermittent power.

This work must also consider safety dimensions.

Energy storage Task Group can now exchange, discuss and write a paper.

- Energy Internet - Qinglai Guo (in replacement of Hongbin Sun)

The presentation document is available in Pcloud: “Energy-Internet_Hongbin-Sun_2021-04-21”.

Comments:

Cybersecurity is a major issue.

For this Task Group, it will be interesting to have examples on precise parts of the subject, cases studies, comparisons; maybe not wait to have the full report because it is a large topic and things are changing quickly.



Committee on Energy



5. Sustainability & Resilience

As IAEA has done with nuclear in a report, this study will link UN Sustainable Development Goals (SDG) to each primary energy.

Documents available in Pcloud:

- *Nuclear Power for Sustainable Development*, IAEA report.
- *Engineering for sustainable development*, UNESCO report. An important part of this report has been written by WFEO.

UN Sustainable Development Goals

Primary Energy		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Coal																	
	Oil																	
	Gas																	
	Nuclear																	
	Hydro																	
	Solar																	
	Wind																	
	Geother.																	
	Biofuels																	

A question: only primary energy ?

Involvement of Committee members: thinking about i) a line ; ii) a column ; iii) a set of cells

The objective is to be able to make a link between each SDG and each primary energy, in order to have a global view of sustainability depending on each source of energy.

Maybe we sometimes should extend this work not only to primary energy: for example, with electricity or heat.

A specific document will be soon circulated on this very important crosscutting study.

6. Implementation of the CE platform

Google Drive wasn't available for all members, so we have a new platform on Pcloud.

Website: <https://www.pcloud.com/>

Username: wfeo-ce@wfeo.net

Password: Wfe0Energy!

Please don't share the username and the password outside the Energy Committee.



Committee on Energy



Folders:

- One for each Task Group
- Sustainability & Resilience study
- Conference “Energy transition & Covid-19 crisis: the role of engineers”.

Operating rules (please respect them strictly):

- Never remove a document.
- Respect for each document the structure: doc-title_your-name_date (date in the form: year-month-day, for example “2021-04-12”).

Example: you will find this document under the name:

WFEO-2021-04-21-Minutes_Cloe-Bosc_2021-04-30

Some documents have already been shared on the platform.

The email addresses of members list of each Task Group have been shared for a better communication within the group.

7. Next meeting

Next meeting will be **July 7, 2021, 12:00 – 14:00 UTC/GMT.**