



iea wind

TEM#101

Hybrid Power Plants: Challenges and Opportunities

Day 1: Benefits of Hybrid Power Plants

... will begin shortly!



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Hybrid Power Plants: Challenges and Opportunities

Day 1: Benefits of Hybrid Power Plants

A few Zoom logistics items

- Please adjust your Zoom name to the format *First Last (Affiliation)*
 - e.g. *Nicolas El Hayek (Planair)*
 - Hover over you name/picture, click “...” , click “Rename”
 - This will help us organize the breakout groups
 - I will be changing some names in the background
- Please mute your microphone when not speaking
- You can use the chat feature if you need help

Hybrid Power Plants: Challenges and Opportunities



Benefits of
HPP

Monday
Aug 24
2020



Microgrids
and Control
of HPP

Tuesday
Aug 25
2020



Sizing and
Optimization of HPP
Storage Technologies

Wednesday
Aug 26
2020

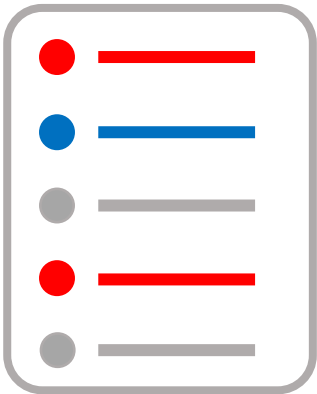


zoom

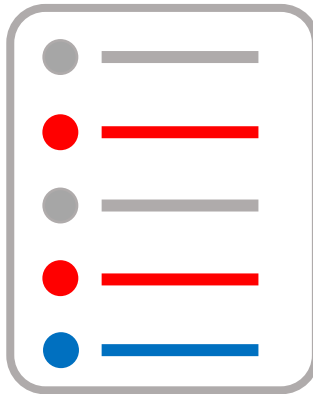
Meeting Goals



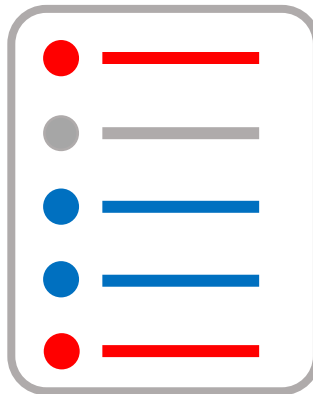
Benefits of
HPP



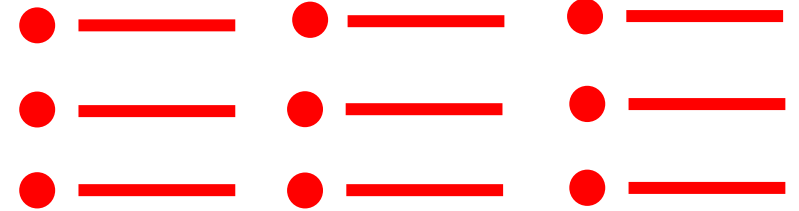
Microgrids
and Control
of HPP



Sizing and
Optimization of HPP
Storage Technologies



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Task Proposal



Cross-TCP collaboration

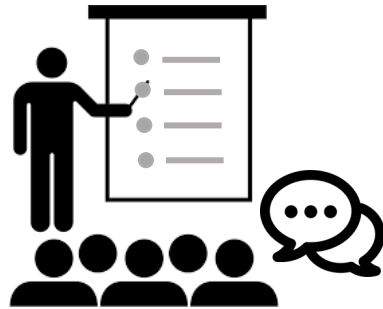
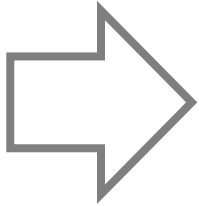
Existing IEA
Wind Task



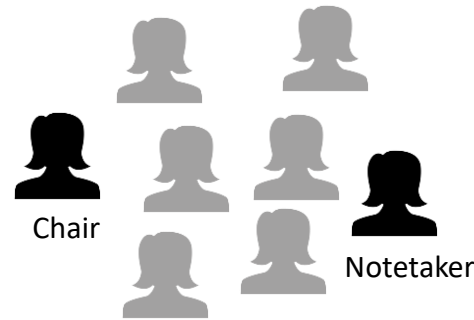
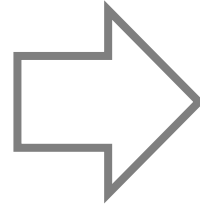
Day 1 – Benefits of HPP



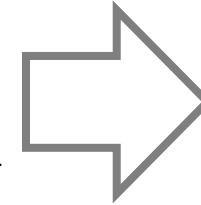
INTRODUCTION
30 minutes



**TECHNOLOGY
SNAPSHOTS**
10 minutes each



BREAKOUT SESSIONS
45 minutes



SYNTHESIS
15 minutes



- IEA history:
 - Bring together experts across the whole world to coordinate a collective response to important energy-related questions or disruptions
- IEA Wind mission:
 - Stimulate **co-operation and information sharing** on wind energy R&D
 - Provide **high quality information and analysis** to member governments and commercial sector leaders
 - Accelerate the pace of **technology development** (TRL) through Tasks
 - **Promote standardization** through Recommended Practices
 - **Save time and money** in national & international research programs



- Value for member countries & industry:
 - Influence the **international research agenda** on wind energy
 - Get in contact with **key government representatives** related to wind energy worldwide
 - Provide **national expertise** to accompany other countries
 - Influence the **creation of new standards** through the IEA Wind recommended practices
 - Get **market and policy insight** globally


- Task 11 activities:
 - Organise **Topical Expert Meetings** (TEMs) gathering experts worldwide
 - Develop **Recommended Practices** in collaboration with Tasks & secretariat
 - Provide an online room for the exchange of ideas:
Community Platform



[Check out the full presentation & community page](#)

Communities / Community Home


TEM#101 [SETTINGS](#)


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TEM#101
**Hybrid Power Plants:
Challenges and Opportunities**

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 **TEM#101 Participant's presentations**
BY: [NICOLAS EL HAYEK](#) 2 DAYS AGO
All presentations from TEM#101 will be uploaded in this space.

 **TEM#101 - Meeting documents**
BY: [NICOLAS EL HAYEK](#) 4 DAYS AGO
You will find here the introductory note, the meeting agenda, the participants list and participant's ...

[MORE](#)

Latest Discussion Posts [ADD](#)

Most Recent

 **Welcome to IEA Wind TEM#101!**
BY: [NICOLAS EL HAYEK](#) 4 DAYS AGO
Hello and welcome to the TEM#101 community page! This is the space where we will upload meeting documentation, presentations and proceedings, as well as the place where you can exchange and discuss on various topics. We're glad to use it as a cross-TCP ...

[UPLOAD FILE](#)

PROGRAM

Note: all times are in MT time

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Day 1: Benefits of HPP (Kaushik Das, Technical University of Denmark and Eric Lantz, NREL)

Introductions

5:00 – 5:15 am – Task 11 Intro: Nicolas El Hayek – IEA Wind Task 11, Planair SA

5:15 – 5:30 am – Intro to TEM and relevant survey results (Katherine Dykes, Technical University of Denmark & Jennifer King, NREL)

Technology Snapshots

5:30 – 6:40 am – *Technology talks* from experts on the benefits of hybrid power plants (10 min each)

- Mark Ahlstrom – NextEra Analytics
- Hannele Holttinen – IEA Wind Task 25, Recognis
- Charlie Smith – Energy Systems Integration Group
- Kaushik Das – Technical University of Denmark
- Thomas Ebel – South Denmark University
- Daniel Dixon/Ellen Phelan – EirGrid

6:40 – 7:20 am – Break

7:20 – 8:00 am – *Technology talks* from experts on benefits of hybrid power plants (10 min each)

- Aaron Barker – National Renewable Energy Laboratory
- Mohammad Amin – NTNU
- Andrew Mills – Lawrence Berkeley National Laboratory

Breakout

8:00 – 9:00 am – Breakout and reported results (Breakout chairs and notetakers)