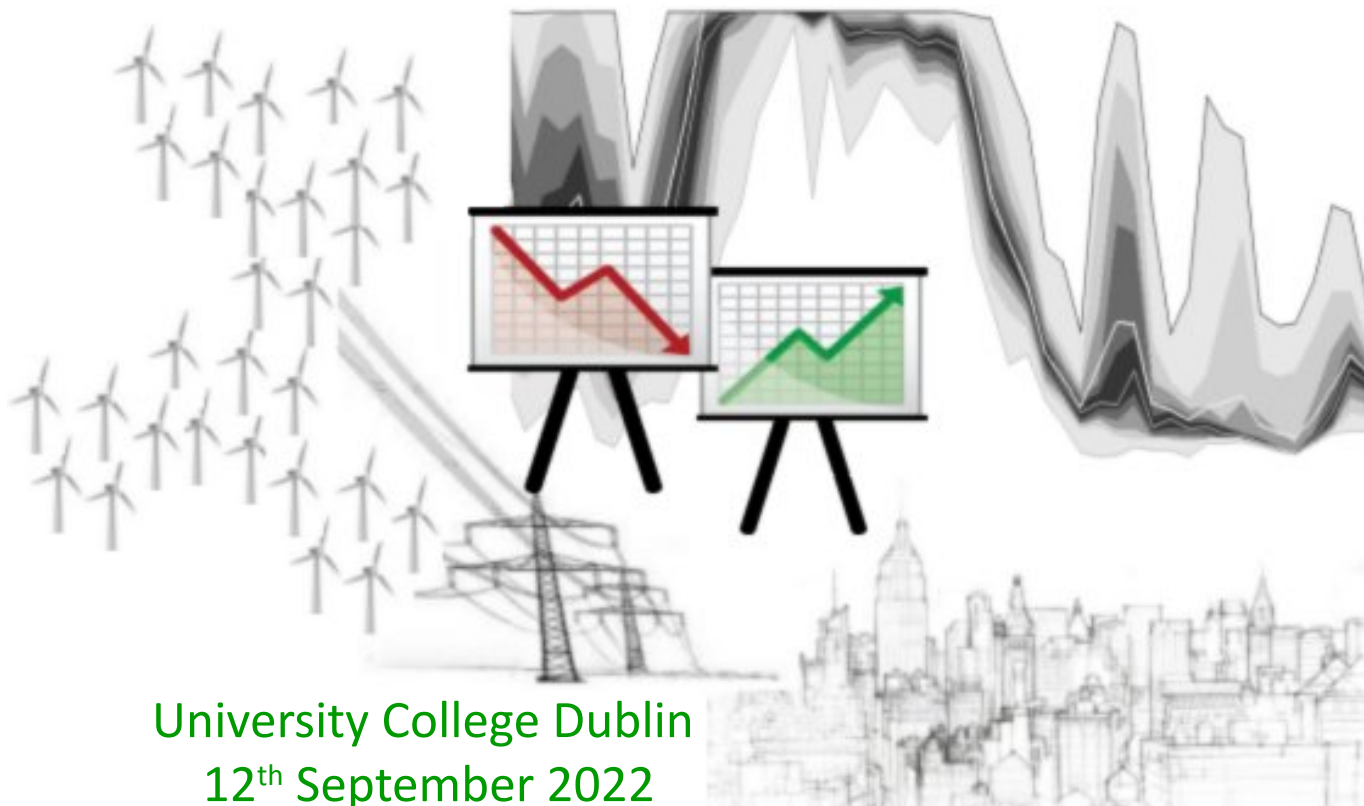


IEA Wind Task 51

“Forecasting for the Weather-driven Energy System” State-of-the-Art Workshop

Open Space Discussion

Extreme Events in the Power System



University College Dublin
12th September 2022

IEA Task 51 Open Space Workshop on *Extreme Events in the Power System*



C. Möhrle
J. Zack

Organised by:
WEPROG
Meso Inc.

| Time | Activity |
|----------------------|--|
| 15:30 - 15:55 | Keynote on Extreme Events by Conor Sweany (UCD) and David Leneghan (NationalGrid) |
| 15:55 - 16:00 | Introduction to the OpenSpace Principle and Topics and |
| 16:00 - 16:35 | OpenSpace discussions in 5 groups - participants rotate free among the groups |
| 16:35 - 17:00 | Group leaders provide summary of each group to the full group; full group discussion |

Open Space Workshop: How We Run It...



| Principle | Meaning |
|--|---|
| Whoever comes is the right people | CHANGE group whenever you think you have said what you wanted or you are no longer interested in the discussion |
| Law of two feet | You can contribute on any discussion, use this opportunity! |
| When it's over, it's over | We stop after 30 minutes...use the time to tell about your ideas! |
| Whenever it starts it starts | Whenever you come to a discussion it is OK to engage and participate |
| Whatever happens is the only thing that could have happened | No matter who and what is discussed regarding the topic, it's good. Leave if you no longer like the discussion! |

Introduction to the Open Space Topics



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| Topic # | Title |
|---------|---|
| 1 | Extreme weather events relevant for the power system <ul style="list-style-type: none">- Is forecasting for each type of event adequate for operational use at present?- If not, what is the most significant issue?- What research needs to be conducted to meet the operational needs? |
| 2 | Non-extreme weather events that cause challenges for the power system |
| 3 | Correlation type events where e.g. the behaviour of wind or solar generation negatively correlated with changes in demand |
| 4 | Mitigation methods in extreme events - known methods and unresolved challenges |
| 5 | Future extremes - events that we do not see yet, but may have to expect in the (near) future |

Results of the Open Space Topics

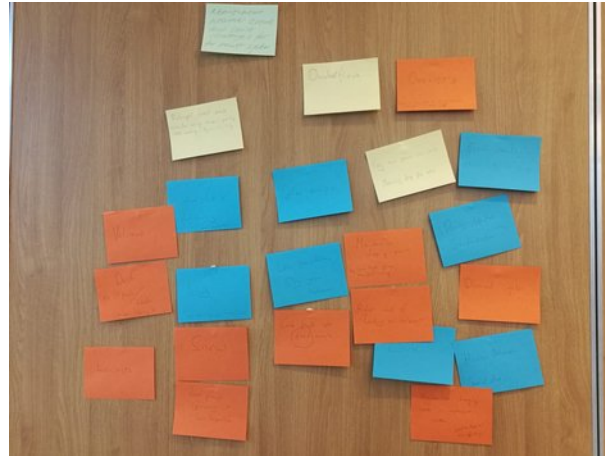


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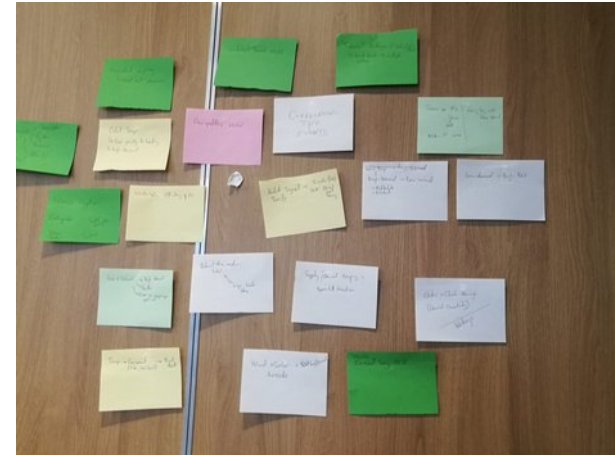
Topic #1
Extreme events for power system



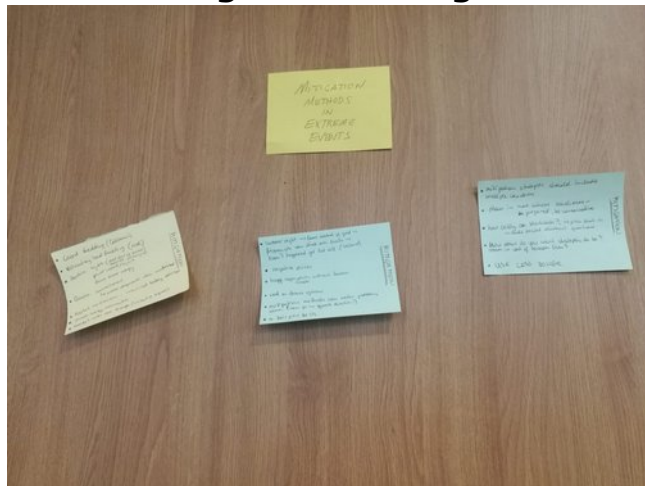
Topic #2
Non-extreme weather events causing challenges



Topic #3
Correlation type events



Topic #4
Mitigation Strategies



Topic #5
Future Events

