

European Climatic Energy Mixes (ECEM) Webinar



Climate Change

*Discover the C3S ECEM
climate data for the
European energy sector*

18 October 2017



European Climatic Energy Mixes (ECEM) is a
Copernicus Climate Change Services Project (C3S)
which is developing, in close collaboration with the
energy sector, a demonstrator to assess how well
different energy supply mixes in Europe will meet
demand, over different time horizons, focusing on the
role climate has on the mixes



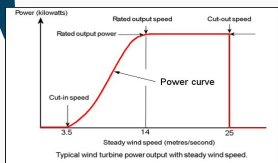
Calibrated Climate Variables

Temperature
Rainfall
River Discharge
Wind Speed
Cloud Cover
Solar Radiation
Others ?

+Ancillary

Define models & transfer functions

Select / Gather relevant datasets



Energy Variables

Hydro
Power

Demand

Wind
Power

Solar
Power

Thermal
Power

- Skill & Reliability
- Assessment of Seasonal Forecasts of Energy Variables

+ Extreme Events Case Studies



- Sub-Country Scale
- Historical Period
- Seas. Fcst
- Clim. Proj.

○ Countries ○ Clusters

Time Period: Historical

Variables: Climate 7

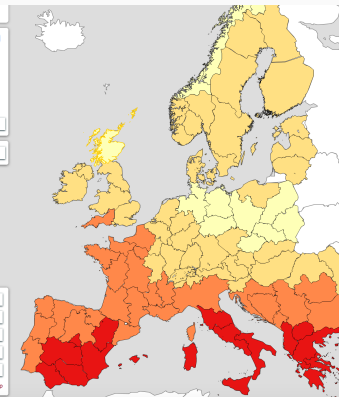
Surface Solar Radi 4

Temporal Resolution: 1 month

Cluster: 04 United Kingdom

New graph Refresh graph Add to graph

Links On Close Graphs Reset Map





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Agenda – 9:00-10:00 UTC

1. The development of climate variables for the historic period within ECEM
Prof Phil Jones (University of East Anglia, UK)
2. Seasonal forecasting for the European energy sector
Dr Philip Bett (Met Office Hadley Centre, UK)
3. The development and visualisation of climate projections for C3S ECEM
Dr Clare Goodess (University of East Anglia, UK)
4. Question and answer session



Webinar Chair:
Prof. Alberto Troccoli

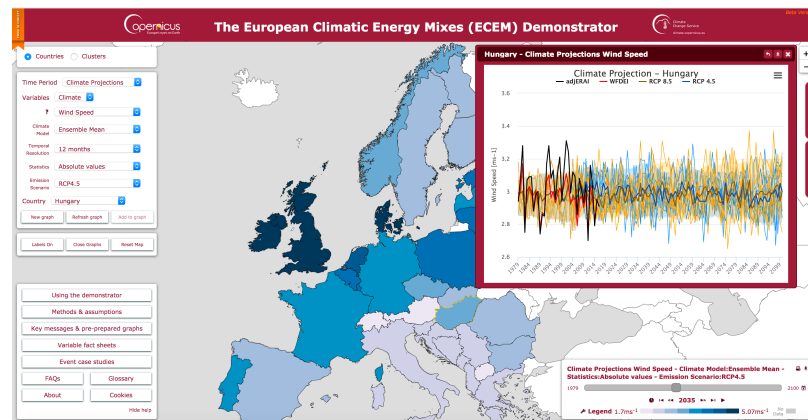




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House Rules

- ★ Three presentations followed by Q&A: please type your questions using the “Questions” tab in the control panel – we will read the questions out at the end
- ★ The webinar is recorded and will be available online
- ★ Enjoy the webinar!





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Your Questions

1. Has Phil (Bett) also looked at the skill in predicting interannual variability in detrended data for variables that show significant long-term trends (e.g. temperature)? That component of the skill might be more relevant for users making operational decisions.
2. Slightly off topic but, how can we use this data to make a more social impact? If the predictions are only at a 'country' level, it's harder to show people the benefits of the improvements they are making.

The data analysis and predictions are based on larger spatial regions on average (size of England). Is there any development to provide such data at more localised levels (eg: size of East Anglia) ?

3. Will the demonstrator be sustained and include CMIP6 projections when available?

Thank you for your participation

Upcoming ECEM Webinars:

- ECEM Energy Data, November 2017 (exact date TBA)
- ECEM Demonstrator Update, December 2017 (exact date TBA)

ECEM Demo – <http://ecem.climate.copernicus.eu/demo>

For more information, or to provide your feedback, please visit:

ECEM Project: <http://ecem.climate.copernicus.eu>

In collaboration with **World Energy & Meteorology Council (WEMC):**
<http://www.wemcouncil.org>

