European Climatic Energy Mixes (ECEM) Webinar

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.

#C3S_ENERGY
Monthly forecasts for hydro power in France

ECEM Overview

Calibrated Climate Variables
- River Discharge
- Temperature
- Rainfall
- Wind Speed
- Cloud Cover
- Solar Radiation
- Others

Energy Variables
- Hydro Power
- Demand
- Wind Power
- Solar Power
- Thermal Power

Skill & Reliability
Assessment of Seasonal Forecasts of Energy Variables

Extreme Events Case Studies

Define models & transfer functions
Select / Gather relevant datasets

Sub-Country Scale
Historical Period
Seas. Fst
Clim. Proj.
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*
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!
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 spacial regions on average (size of England). Is there any development to provide such data at more localised levels (e.g. 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

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