Our Experience in Energy & Climate Services for the GFCS HelpDesk Development

Alberto Troccoli World Energy & Meteorology Council (UK) University of East Anglia (UK)



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Outline

- Our role/engagement in Energy & Climate Services
- Tools/resources to inform the design and implemention of our Copernicus Energy & Climate Service
- Gaps for the GFCS HelpDesk
- Expectations for the GFCS HelpDesk





Energy and meteorology go hand in hand





World Energy & Meteorology Council (WEMC)

Our primary goal is to enable improved

Sustainable energy

For a low carbon economy

Resilience

Of energy infrastructures

Efficiency

Of energy systems

Under ever changing weather and climate



WEMC activities are

- 1. The **dissemination of information** on products, practices, and experiences in Energy & Meteorology including the promotion of the work of our members
- 2. The **organisation and coordination of Special Interest Groups** (SIGs) leading to the production of reports, analyses and syntheses on key topics in Energy & Meteorology
- 3. The **development and maintenance of demonstration tools** to assist with the uptake of weather, climate and water services by the energy industry and the education of the general public
- 4. The **organisation of events** such as the International Conference Energy & Meteorology (ICEM), including the development and delivery of professional workshops, seminars and webinars



5. To host researchers and industry specialists for the exchange of expertise and MC development and execution of projects

http://www.wemcouncil.org/





European Climatic Energy Mixes (ECEM)





ECEM is developing 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.









European Climatic Energy Mixes (ECEM)



★ Energy Mix assessment for:

- ★ Present day
- ★ Seasonal Forecasts
- ***** Climate Projections











Multi-faceted Stakeholder Engagement

- ★ Workshops
- ★ Advisory Committee
- ★ (Survey)
- ★ Presentation at events
- ★ Fact sheets (Variable, Case Studies, Key Messages)
- ★ Webinars
- ★ Web site
- ★ Twitter









Stakeholder Engagement: Workshops







CECMWF

European

Commission

Stakeholder Engagement: Workshops



UEA Estangle

Variable and Case Study Fact Sheets

Boosting Decision Making FUROPEAN CLIMATIC 1 General ENERGY MIXES (ECEM) EUROPEAN CLIMATIC 1 Use of b wind speed data has allowed us ENERGY MIXES (ECEM) ution of the volatility in to id 1.1 Description 1.2 Units EVENT CASE STUDY 1.3 Links onitor wind speed at locations FCFM CS 001 1.4 Data format 1.5 Keywords from a less volatile 1.6 Contact **Electricity Price Spike** ng from better Winter 2009-2010 an be 10 fold 2 Dataset coverage Scien 2.1 Geographic area event in its entirety 2.2 Temporal resolution not 2.3 Time period 2.4 Spatial resolution 2 Th wind speed ction data in data i 3 Usage the der construct a meaning ship 3.1 License conditions 3.2 Citation(s) 3 Coding o nonstrator A series of case studies based A series of fact sheets which data was st on extreme events which provide metadata for the 4 Lineage statement illustrate how the ECEM climate and energy variables **Key Lessons** Demonstrator can be used by the energy sector to enhance 4.1 Original data source 1 Demonstrator ple to understanding and support 4.2 Tools used in production of indicators carry out a first decision making. electricity product 5 Data quality 2 Expert knowledge identify cause of elec 3 Targeted use of dem the close collaboration production experts and o to considerable monetary For more information visit For more information visit http://ecem.climate.copernicus.eu www.ecem.climate.copernicus.eu Date of publication: 12 June 2017 or contact the ECEM team at support@ecem.climate.copernicus.eu Date of publication: 15 May 2017 CECMWF



VARIABLE

FACT SHEET

ECEM VFS E01

Energy demand

produced by ECEM





An online interactive tool to test energy mixes



An online interactive tool to test energy mixes



An online interactive tool to test energy mixes



The Energy & Meteorology Conference Series











4th International Conference Energy & Meteorology

Challenges in Weather, Climate and Water Services for Energy

JOIN US IN BARI!

27-29 June 2017 Villa Romanazzi Carducci Bari, Italy

http://www.wemcouncil.org/



What are the gaps the GFCS HelpDesk could fill?

- 1. Links, dissemination and support of good practice to developing countries (e.g. the eight GFCS countries)
- 2. Stronger links amongst sectors (e.g. transfer lessons from Ag to En)
- 3. Stronger engagement with user community
- 4. Collection and coordination of Q&As
- 5. Coordination of Help provision by region, sector, …? if I'm a farmer in Sri Lanka, whom should I ask for help?
- 6. Quality control of information provided how do we distinguish experts from charlatans do we need a certification system?



What are my expectations for the GFCS HelpDesk?

Fulfil the gaps listed in the previous slide!





Get in touch!

info@wemcouncil.org

www.wemcouncil.org

School of Environmental Sciences University of East Anglia Norwich NR4 7TJ, UK



