

**15th EMS Annual Meeting &
12th European Conference on Applications of
Meteorology EMS&ECAM
07 – 11 September 2015, Sofia, Bulgaria**



Dear colleagues,

We are pleased to draw your attention to the session

**ASI 16:
Energy Meteorology**

Programme group "The Atmospheric System and its Interactions" (ASI)

Submission deadlines:

**Abstract with
support application:
19 March 2015**

**Abstract :
24 April 2015**

Submission link:

<http://meetingorganizer.copernicus.org/EMS2015/sessionprogramme>

Renewable energy sources are currently investigated worldwide and technologies undergo rapid developments. However, further basic and applied studies in meteorological processes and tools are needed to understand these technologies and better integrate them with local, national and international power systems. This applies especially to wind and solar energy resources as they are strongly affected by weather and climate and highly variable in space and time.

Contributions from all energy meteorology fields are invited with a focus on the following topics:

- Wind and turbulence profiles with respect to wind energy applications (measurements and theory) including wakes within a wind farm;
- Clouds and aerosol properties with respect to solar energy applications (measurements and theory);
- Marine renewable energy (wind, wave, tidal, marine current, osmotic, thermal);
- Meteorology and biomass for energy;
- Impact of wind and solar energy farms and biomass crops on local, regional and global meteorology;
- The use of numerical models and remote sensing (ground based and from satellites) for renewable energy assessment studies;
- Research on nowcasting, short term forecasts (minutes to day) and ensemble forecasts and its application in the energy sector;
- Quantification of the variability of renewable resources in space and time and its integration into power systems;
- Impacts of long term climate change and variability on power systems (e.g., changes in renewable resources or demand characteristics);
- Practical experience using meteorological information in energy related applications.

Conveners:

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