

**ELECTRICITY FROM RENEWABLE ENERGY**

Renewables is an issue able to attract stakeholders from University, Industry, Governative Institution and so on. Electricity from renewable energy sources (RES) is seen as a way to reduce GHG emissions and the dependency from coal and fossil fuels in general, but also as a way to decrease the cost for the electricity expense, thanks to local generation and distributed generation in private microgrids.

In the last years, RES-based generators have evolved becoming more and more efficient and presenting new technologies characterized by innovation and smart technologies.

However, the connection to the grid of unpredictable and uncontrollable generators is posing new problems to face, regarding: power systems protection and stability, electricity market behaviour, EMC disturbances, reverse power flow, etc.

In this context, this Special Session encourages the submission of articles focused on innovative solutions for electricity production from RES. The suggested topics are related (but not limited) to:

- impact of renewables on electricity costs;
- RES and electricity market;
- safety against electric shocks in presence of RES-based generators;
- coordination of RES-based generators and Demand Response in microgrids;
- impact of renewables and distributed generations on power systems;
- innovative RES-based generators: technologies and applications;
- impact of storage systems on power system stability;
- the energy blockchain in microgrids;
- analysis of indicative study cases.