



**10<sup>th</sup> November ♦ 04:45 – 06:00pm**  
**Room South Downs (Multimedia Studio 1)**

## **100% renewable energy system: a credible target?**

This side event is organized by ParisTech through its Chair Prospective modeling for sustainable development directed by the Centre for Applied Mathematics from MINES ParisTech and the CIRED. It aims to address the enabling technico-economic, sociological, and political conditions for a 100% renewable energy system, crossing country perspectives.

Achieving the carbon neutrality objectives of the energy system requires urgent transformations on a global and national scale over the century. This side event will highlight and analyze the issues and the complexity of the planning of decarbonized power systems under the prism of the renewable development. Lessons from modeling exercises and national experiences will illustrate the debate and a special attention will be paid to how developed and developing countries can envisage the future of their energy and economic systems in the Paris Agreement context.

- **Nadia MAÏZI**, (CMA, MINES ParisTech, PSL University, France; Lead author IPCC): Challenges of 100% REN energy system scenarios
- **Stefan LECHTEMBÖHMER** (Wuppertal) : Insights and challenges for a carbon neutral energy system in Germany
- **Heleen DE CONINCK** (Eindhoven University of Technology, Coordinating Lead Author IPCC): Overall perspectives (IPCC 1.5°C scenarios)
- **Discussant: Jean Charles HOURCADE** (CIRED; Lead author IPCC)

### **Discussion**

This side event, which aims to provide a forum for high-quality exchanges to consider the plausibility of future energy systems and the challenges of their deployment, will be the opportunity to demonstrate the contribution and interest of prospective modeling, to establish a dialogue between policy makers, experts and scientists. Beyond this side event will contribute to the reflection on the direction of public and private strategies, in an accompanying process of climate negotiations.