

# Challenges for energy and utilities in Europe toward low carbon economy



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**jeudi  
4 octobre  
2018**

**École polytechnique**  
Amphi. Gay-Lussac  
16h 30

**W**e are faced to a huge challenge: how to apply COP 21 Paris agreement?

European economy has to identify the more economical pathway toward Paris COP 21 agreement. We will draw some of the solutions that can play a role to reach Paris agreement.

Toward this agreement, we will illustrate the role that can play low carbon electricity to contribute to decarbonize economy and detail some of the key issues large power companies are facing in Europe, and in the world.

Electricity systems have to deal with various main challenges as climate change, rapidly evolving market design of electricity, fast evolution of new technologies of energy, development of IT, ...

The consequences are significant for every field of activity of the electric utilities.

On customer side, digitalisation of the relationship with customers, the development of energy efficiency, the development of new uses of electricity and the increasing weight of the territorial and local approach have to be considered and introduce new way to answer to the customer's needs.

On network side, we have to consider the insertion of distributed energy sources and the impact of the variability of renewables energies as PV and wind and digitization customer relationship.

On the production side, it is necessary to both maintain existing assets and develop renewable energy while improving their competitiveness.

More than ever, innovation in both technology and on the business models is critical to successful transition Energy.

