

Abstract:The large-scale integration of renewable electricity generation poses both structural, economic and management challenges. Among the major challenges, one can note the grid integration and the routing of this energy from the production centers to the consumption poles. The idea put forward by the defunct DESERTECH project carries with it the seeds of a more global reflection on future major electricity transmission system. The HVDC was thus highlighted but also the various locks accompanying it.

This presentation will focus on these new challenges: HVDC providing solutions to facilitate large scale renewable integration but new challenges and locks they accompany it. Finally, the underlying scientific issues will be discussed