

Abstract: Flexibility for Electricity Networks: Economic and Legal Aspects

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The energy transition leads to a growing need for an expansion of electricity transmission and distribution networks. Energy production becomes more decentralized, the expected rise of e-mobility and the building-up of the required charging infrastructure may have a significant impact on the load profiles. At the same time, European legislation (Clean Energy Package - CEP) aims to put a stronger emphasis on the use of flexibility for the operation of electricity networks. However, the use of flexibility for electricity networks raises regulatory and economic challenges. For example, flexibility markets may lead to strategic behavior and Increase-Decrease Gaming; further, the integration of new load such as e-mobility must ensure an efficient use of flexibility without hampering the rise of e-mobility. The lecture aims to present and discuss some of the legal and economic challenges the lawmaker is currently facing with regard to the implementation of the CEP into national law and the establishment of a framework for an efficient use of flexibility.