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Flexibility Requirement in Future Energy Supply

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Abstract

The European energy supply is still relying on conventional generation to a large extent. However, the existing system is rapidly changing towards renewable energy sources (RES). Due to the stochastic feed-in pattern of RES, the need for flexibility is significantly rising. In that connection a variety of different technologies and measures can be applied. In particular, micro generation, energy storage and demand management are promising solutions. Yet there is still a lack of business cases. In order to successfully push on technology development and create flexibility markets of relevant size, appropriate incentives have to be set. This may involve new tariff structures as well as an adapted regulatory framework.