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**From Smartgrid to Softgrid: Adding data analytics capabilities to the
operational application landscape**

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Abstract

In the presentation I will address the emerging trend in the energy industry to move towards fact-based decision-making, and to use data analytics for managing performance and risk. The deployment of 'smart hardware' consisting of e.g. Smart Meters, IED's and PMU's in the power grid will accelerate in the coming years, resulting in what can be called a 'Data Tsunami'. This new reality will have a significant impact on utilities, requiring them to shift to new business- and operation models. Opportunities of energy data analytics include performance monitoring and optimisation; condition-based and predictive maintenance; optimisation across systems and system overview of operations. The presentation will address the seven highest valued data analytics applications for utilities, the emerging market of decision support systems, human centric design of control room applications and the different needs of TSO's and DSO's.