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Digital Transformation of Energy Systems

**A holistic approach to digitization of utility system operations through effective
data management**

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Abstract;

This presentation describes the way that Digital Transformation in Energy will have a disruptive effect on energy systems. It describes some applications of emerging digitization in energy and how data is becoming the new 'raw material' in the energy industry. The presentation then continues to describe how effective data management and governance is key to bringing any kind of data-driven project to a success. Fact is that over 70 % of the time spent in a data driven project is currently spent in the early phases of data import, storage, conversion and quality assessment, while less than 30 % of the time is only spent on the actual analytics work and/or the visualization aspects. To improve this, we will need a holistic approach to digitization of utility system operations through effective data management. Aspects are: removing data silos through adoption of the CIM, ability to work with a variety of data sources and data stores, ability to work with streaming data, and the ability to assess the quality of the data. Finally, the presentation provides a number of examples from DNV GL's practice in the area of Digital Transformation in Energy, being the Smart Cable Guard product and the Veracity open industry data platform.