

CEDEC - Joint Conference

Session I: The Broadening Role of DSOs Managing Distribution Systems, Facilitating Markets

- Renewable transition, flexibility facilitated by DSOs -

Peter Flosbach – Managing Director
DEW21 - Dortmunder Energie- und Wasserversorgung GmbH

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GENAU
MEINE
ENERGIE

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Dortmunder Energie- und Wasserversorgung Facts & Figures

Balance sheet total
1,068 Mio. €

Revenues
927 Mio. €

Dortmund's population
ca. 600,000

Employees
1,094

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Natural Gas



Electricity



Water



Heat



Renewables



Services

Key assumptions for the future role of DSOs

1. The second half-time of the “Energiewende” will take place in the cities
2. The energy production will be decarbonised as well as more and more decentralised in DSO infrastructures
3. In the new energy market DSOs will play a central role to guarantee a competitive and secure energy-supply
4. Smart energy systems will increasingly be advanced by decentralised storage solutions - digitalisation and automation will be a critical success factor
5. DSOs and TSOs across Europe have to find integral solutions for combining electricity, natural gas, heating systems as well as services

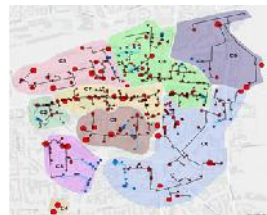


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Renewable transition – flexibility facilitated by DSOs

- Security of supply will be more and more promoted by DSOs
- DSOs will be key enabler for new services and innovative retail products
 - installation, operation and maintenance services
 - photovoltaic,
 - E-mobility (vehicles and bikes)
 - storage solutions and
 - micro wind
 - partially in cooperation with the local craft establishment
- “Wärmewende” design in an intelligent way following the “Dortmund Wärme 2.0” example
 - innovative local heating technologies in several linked clusters
 - virtual power plant (CHP) load management and control
 - promote power-to-heat technologies
 - integrate local heat storage solutions



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