

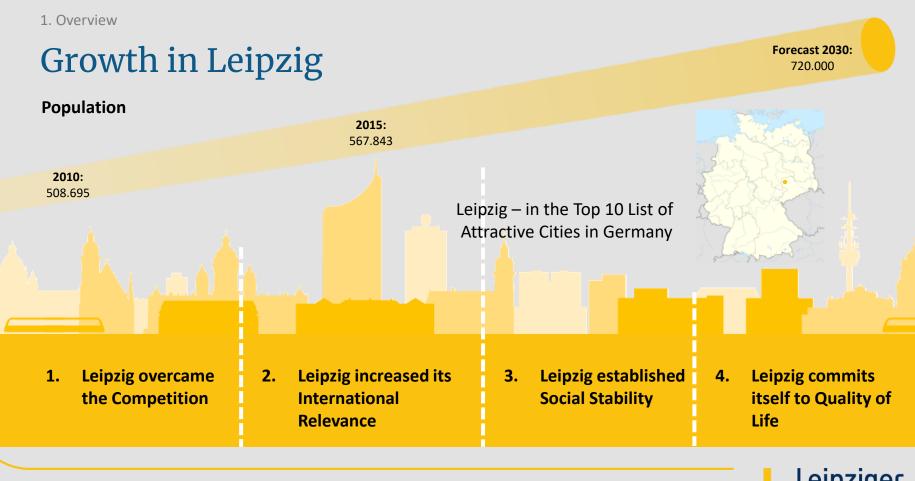




Provide energy efficiency technical experience - Leipziger Stadtwerke

Leipzig, Februar 25th 2022







Overview of the Leipziger Group



Leipziger Group

100% Owned by the City of Leipzig

Facts & Figures 2017

Employees 4,781
Fixed Assets 2.1 Bill. EUR
Revenue 2.5 Bill. EUR
EBITDA 210 Mill. EUR

Leipzig Public Utility

- 4,938 km District Heating-, Gas- & Power Network
- 2.2 GWh Heating- & Gas Generation
- 0.9 GWh Electricity Generation
- 232 MW_{elek} Generating Capacity

Leipzig Water Works

- 6,263 km Drinking Water & Sewage Network
- 30 Mio. M³ Drinking Water Generation

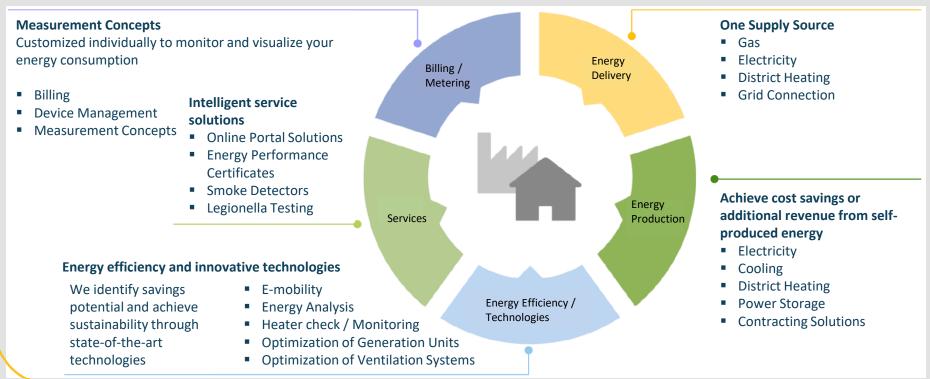
Leipzig Public Transport

- 1,313 km of Transport Lines
- 294 Trams
- 159 Buses
- 138 Mil. Passengers





Our 360° Approach to Energy Solutions

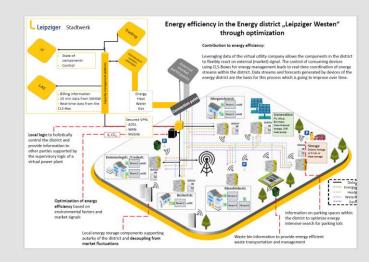




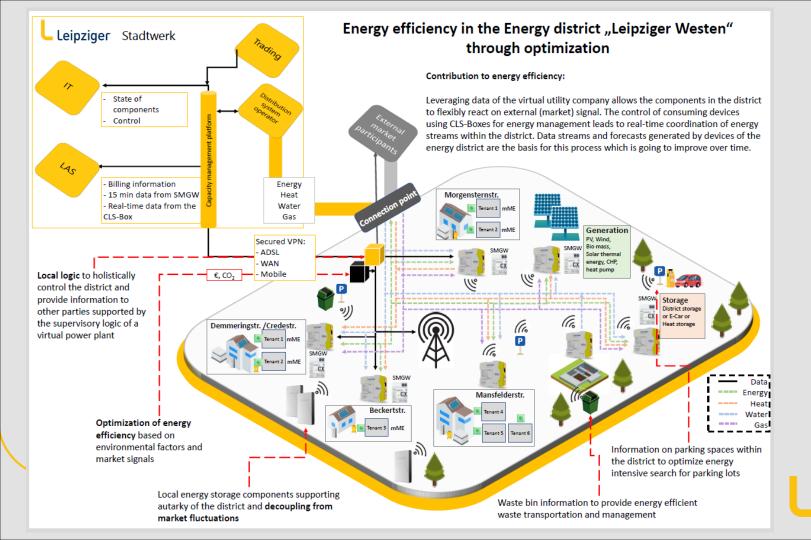
Energy Efficiency / New TechnologiesEnergy Districts



- Energy district is designed to be self sufficient with regards to power and heat (mostly)
- Allows components in the district to flexibly react on external (market) signal
- Control of consuming devices for energy management
- Real time coordination of energy streams within the district









Energy and Energy Efficiency Services



Energy Services

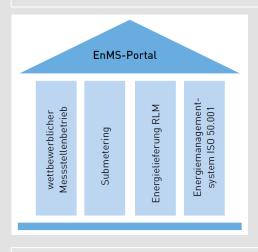
Light Solutions

Photovoltaics

Heat Generation

- ❖ Technical concept
- Funding / Tendering
- Project and Site Management
- Realization and Commissioning
- Operational Management
- Monitoring and Control

Energy Efficiency Services



- **❖** ISO 50.001
- EnMS portal



Energy Efficiency and Climate Protection Network

- Initiated by Leipziger Stadtwerke and Chamber of Industry and Commerce Leipzig (IHK)
- 16 members setting common CO₂ reduction targets
- Knowledge transfer
 - Energy policies
 - Energy management in companies
 - Smart Lightning Solutions
 - Energy data analysis etc.
- Development of **Decarbonization Roadmap**





Thank You!







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Energy Efficiency MeasuresInternal

Increase of Combined Heat and Power Plants (decentralized generating units)

Increase of Photovoltaics

Conversion to LED Lighting

Building and Land Management

Construction of: 4x2 MW plants 2x9 MW plants Installation of PV system on roof surfaces
Output: 452 MWh/a

Gradual conversion to LED lighting in heat and power plants, storage buildings, offices, etc. Exchange of multifunction devices, roof renovations, Swapping projectors/ monitors in consultation rooms



^{*} compared to the separate generation of electricity or heat

Energy Efficiency and Climate Protection Network

Decarbonization Roadmap

Accounting of CO₂
emissions in the areas
of electricity, heat and
mobility

Development of CO₂
development paths up
to max. year 2045
(regional differences)
in the areas of
electricity, heat and
mobility (technical and
organizational
development of
measures)

Calculation of the technical residual emissions from 2022 to 2035 and identification of compensation options

Accompanying the development paths (implementation of measures and documentation) as a permanent task

