M FOR MAINZER STADTWERKE
For many decades, the Mainzer Stadtwerke AG group of companies have provided the Mainz region, parts of Rhinehessen and the administrative district of Groß-Gerau with electricity, gas, drinking water, heating, public mobility and technical services. Reliable, safe, ecological and energy-efficient.

In autumn 2016, a new business branch was added: Since then, all Mainz inhabitants have been able to purchase electricity and gas from the Mainzer Stadtwerke Vertrieb und Service GmbH.

The sole shareholder of Mainzer Stadtwerke AG is the City of Mainz. As a municipal company, our citizens are the focus of our work. Our actions affect almost all areas of daily life for the people in Mainz, which is why, in autumn 2016, the term “Mainzer” was incorporated into the company name of the central Stadtwerke-Gesellschaften (Municipal Utility Companies) and business areas such as the sale of electricity and gas, heating supply facilities or the production of renewable energies. Since then “Mainzer” has also been the core message in the umbrella logo of the Stadtwerke Group with a colourful, easily-memorable “M”: Here a Mainz-based company works for the people of our city.

As a municipal company, our citizens represent the focus of our work.
WE HAVE
ENERGY
SUSTAINABILITY
WE ACT RESPONSIBLY

It is our objective to meet the requirements of today’s generation, without removing the prerequisites for requirements for future generations. Therefore we are building on the development of energy generation from renewable sources such as solar, wind and hydropower. Over previous years, we have invested heavily in systems for the generation of renewable energies, and our specified goal for 2020, to cover 20 percent of the Mainz electricity consumption with renewable energy, has already been achieved. We shall continue to invest in efficient generation plants in the field of renewable energies in the future.

Furthermore, we focus on the integration of renewable energy sources in secure and intelligent networks, paying particular attention to storage and information technologies. The heat transition concerns the gradual decrease in the use of fossil fuels for heat generation, the customer-orientated interaction of local and district heating, heating from renewable sources and the classic supply with natural gas. Here the environmentally-friendly electricity and heat generation as CHP (combined heat and power) in the Ingelheimer Aue area is of great importance to the region.

RENEWABLE ENERGIES
WE ARE GENERATING FUTURE-PROOF ENERGY

Renewable energy sources are our future. We primarily promote the development of renewable energies in the solar, wind and hydropower sectors. We have bundled our activities for renewable energy plants to form the Mainzer Erneuerbare Energien GmbH. In the meantime, we have become involved in more than 80 wind power plants and more than 200 photovoltaic plants, either individually or with partners. These plants generate around 370 million kilowatt-hours of environmentally-friendly electricity every year. Likewise, our 12 hydro power plants contribute significantly towards climate protection, with 15 to 20 million kilowatt-hours of electricity generated through renewable energy sources.

Our specified goal for 2020 to cover 20 percent of the electricity consumption for Mainz with renewable energies has already been achieved!
WE PROVIDE RELIABILITY
Until now, electricity has played the primary role in the energy revolution. We wish to support the promotion of a heating revolution in the region. For this reason, we founded Thermago GmbH in 2014, which makes strategic decisions for the safeguarding of long-term, cost-effective and ecological heating provision in Mainz and the surrounding area. In accordance with our umbrella brand strategy, Thermago GmbH was renamed in autumn 2016 to Mainzer Wärme GmbH (Mainz Heating). District heating will be indispensable for the heating strategy for Mainz in the future too, which will supply 40,000 to 50,000 households with heating from the combined power heating plant. The Mainzer Wärme plus GmbH has been supplying the Berliner Siedlung (Berlin housing estate) with heating since 1st October 2014, and also the Lerchenberg area since 1st May 2016.

The Mainzer Netze GmbH operates the electricity, gas and drinking water networks in Mainz and the surrounding area. The electricity grid area of Mainzer Netze extends from Sprendlingen (Rhinehessen) to Biebesheim (Hesse) and comprises of 19 municipalities with around 510,000 inhabitants, including the state capital. The gas network with approximately 38,000 household connections extends from Wackernheim to Nauheim. Three waterworks belong to the Mainzer Stadtwerke AG group of companies, the plants in Eich, Höf Schönau and Petersaue, transfer around 17.5 million cubic metres of drinking water. The water pipelines of the Mainzer Netze has a total length of 850 kilometres and ensure that, even at a peak consumption of 4 million litres per hour, approximately 250,000 citizens can continuously be supplied with top-quality drinking water.

The electricity network area of Mainzer Netze comprises of 19 municipalities with around 510,000 inhabitants, including the state capital.

<table>
<thead>
<tr>
<th>Transformer stations</th>
<th>Gas high-pressure network</th>
<th>Water pipelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,500</td>
<td>155</td>
<td>3</td>
</tr>
<tr>
<td>km</td>
<td>in km</td>
<td>in km</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electricity grid length</th>
<th>Gas low-pressure network</th>
<th>Waterworks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,200</td>
<td>787</td>
<td>850</td>
</tr>
<tr>
<td>in km</td>
<td>in km</td>
<td>in km</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electricity home connections</th>
<th>Gas home connections</th>
<th>Peak consumption of drinking water</th>
</tr>
</thead>
<tbody>
<tr>
<td>70,000</td>
<td>38,000</td>
<td>4,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>in m³/h</td>
</tr>
</tbody>
</table>
**MOBILITY FOR MAINZ**

**WE MOVE A WHOLE CITY**

We keep the people in Mainz and its surrounding areas mobile. The public transportation network by the Mainzer Verkehrsgesellschaft mbH (Mainz Transportation Association – MVG) is impressive due to its geographical range, excellent connections, short intervals and reasonable travel prices. In 2016, more than 53 million passengers travelled with approximately 140 buses and around 40 trams – the number of passengers recorded by the business division »Mainzer Mobilität« has been increasing continuously in recent years.

The commissioning of the »Mainzelbahn« is a milestone for the development of climate-friendly public transportation in Mainz – all in all, around one million additional passengers are expected annually thanks to the extension of the tram network to the Lerchenberg area.

The Mainz bicycle hire business is also booming: »MVGmein-Rad« is extremely successful with around 470,000 bicycles hired out per year.

**INFRASTRUCTURE**

**WE ARE DEVELOPING IN A UNIQUE WAY**

The development of a unique city district is progressing at the Mainz customs port: Around 2,500 people are to live here in a few years, and jobs for around 4,000 people are being created. The Mainzer Stadtwerke AG and CA Immo are the shareholders responsible for the Zollhafen Mainz GmbH und Co. KG (customs port) project.

In the Heiligkreuz district in Weisenau, a large housing area is currently being built with the involvement of the Mainzer Stadtwerke: Here 1,950 flats have been planned for the coming years, a substantial portion of which are to become affordable residences.

<table>
<thead>
<tr>
<th>5</th>
<th>27</th>
</tr>
</thead>
<tbody>
<tr>
<td>tram routes</td>
<td>bus routes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.5 M</th>
<th>8.4 M</th>
</tr>
</thead>
<tbody>
<tr>
<td>carriage kilometres</td>
<td>carriage kilometres</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>53 M</th>
</tr>
</thead>
<tbody>
<tr>
<td>passengers</td>
</tr>
</tbody>
</table>

The commissioning of the »Mainzelbahn« is a milestone for the development of climate-friendly public transportation in Mainz.
INNOVATION
WE THINK AHEAD

It is an exemplary project for the German energy revolution: In July 2015, the Energiepark Mainz (Energy Park Mainz) went into operation. With this joint project between the Mainzer Stadtwerke AG, Linde and Siemens, and under the scientific supervision of the Hochschule (Polytechnic) RheinMain, hydrogen is manufactured through the electrolysis of water with the assistance of environmentally-friendly wind energy. The electricity originates from, amongst other things, the neighbouring wind power plants of the Mainzer Stadtwerke. The hydrogen produced in Mainz can be used in industrial applications and for the climate-friendly propulsion of fuel-cell automobiles or buses, or can replace natural gas in the German gas network.

The Energiepark Mainz is the largest plant of its kind worldwide, and cost around EUR 17 million. The research project has been subsidised by the Federal Government. The Energiepark is currently undergoing an economic test phase.

SUPPORT & CONTRACTING
WE CREATE SOLUTIONS

Energy consulting and support from a single source. Based on this trend, we have founded the »Mainzer Stiftung für Klimaschutz und Energieeffizienz« (Mainz Foundation for Climate Protection and Energy Efficiency). It supports innovative projects in Mainz, Rhinehessen and the administrative district of Groß-Gerau which are orientated to the principle of sustainability and contribute towards the energy revolution.

In the field of renewable energies, development is progressing towards the construction of de-centralised plants. Our modular-constructing »Stadtwerke-Contracting« system provides solutions for this purpose which extend far beyond the construction and operation of energy plants, and also encompasses planning, financing, maintenance and repair services. We provide our customers with contracting solutions in three areas of communication technology: Telecommunications, security technology and radio technology. Banks, department stores, jewellers, retirement homes, doctors, lawyers and private households have entrusted us with the supervision of their communication technology. We operate plants for the City of Mainz and are license holders for the connection of systems to police and fire brigade call centres.

Our modular-constructing »Stadtwerke-Contracting« system provides solutions which extend far beyond the construction and operation of energy plants.
FACTS AND FIGURES

- Executive Board: Daniel Gahr, Dr.-Ing. Tobias Brosze
- Stock company since: 1971
- Shareholders: 100 percent in municipal control
- Revenue 2016: Approximately EUR 438 million
- Employees 2016: Approximately 1,577 employees

OVERVIEW OF BUSINESS DIVISIONS

Energy and drinking water
- Sale of electricity, gas and heating
- Operation of electricity, natural gas and drinking water networks
- Production of electricity and heating
- Operation of street lighting
- Water extraction in three large-scale water works
- Recycling energy from waste

Energy-related services
- Communications technology
- Contracting

Traffic and infrastructure
- Public transportation
- Industrial port
- Zollhafen (customs port) Mainz – new city district
- Heiligkreuz district
- Individual telecommunications services

SHAREHOLDINGS AND SUBSIDIARIES

Energy and drinking water
- Mainzer Stadtwerke Vertrieb und Service GmbH, Mainz
  www.mainzerenergie.de
- Mainzer Netze GmbH, Mainz
  www.mainzer-netze.de
- Überlandwerk Groß-Gerau GmbH (ÜWG), Groß-Gerau
  www.uewg.de
- Kraftwerke Mainz-Wiesbaden AG (KMW), Mainz
  www.kmw-ag.de
- Mainzer Fernwärme GmbH, Mainz
  www.mainzer-fernwaerme.de
- Mainzer Wärme GmbH, Mainz
  www.mainzer-waerme.de
- Mainzer Wasserkraft GmbH, Mainz
  www.mainzer-wasserkraft.de
- Mainzer Erneuerbare Energien GmbH, Mainz
  www.mainzer-erneuerbare-energien.de
- Mainzer Breitband GmbH, Mainz
  www.mainzer-breitband.de
- Wasserversorgung Rheinhessen GmbH (WVR), Bodenheim
  www.wasserversorgung-rheinhessen.de

Traffic and infrastructure
- Mainzer Verkehrsgesellschaft mbH (MVG), Mainz
  www.mvg-mainz.de
- Mainzer Hafen GmbH, Mainz
  www.zollhafen-mainz.de

Foundations of the Mainzer Stadtwerke AG
- Stiftung Kunsthalle (Art Hall Foundation) Mainz, Mainz
  www.kunsthalle-mainz.de
- Mainzer Stiftung für Klimaschutz und Energieeffizienz (Mainz Foundation for Climate Protection and Energy Efficiency), Mainz
  www.mainzer-stiftung.de