

## Our services for the city

Berliner Stadtreinigung introduces itself



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For over 130 years now, we have assured reliable refuse disposal and cleanliness in the capital. We are one of the largest municipal enterprises in the waste management sector in Europe today.

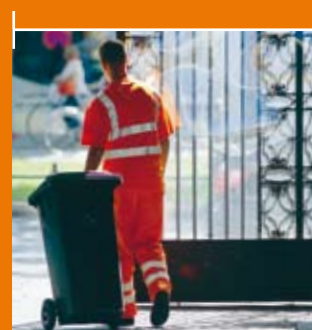
## BSR in figures



Established: <b>1951</b>	Subsidiaries:	<b>4</b>	Fleet:	<b>approx. 2,000 vehicles</b>
Legal form: <b>Public corporation (since 1994)</b>	Waste management depots:	<b>4</b>	Annual volume of waste:	<b>1.1 million tonnes</b>
Employees (annual average 2008): <b>5.420</b>	Waste-fed heating and power plants:	<b>1</b>	Bin emptyings per annum:	<b>22 million</b>
	Mechanical-physical stabilisation plants (MPS):	<b>2</b>	Christmas trees disposed of:	<b>400,000</b>
	Transfer stations:	<b>1</b>	Leaf sacks per annum:	<b>approx. 1 million</b>
	City cleaning regional centres:	<b>5</b>		
	Recycling centres:	<b>15</b>		

Our desire for the future

Berlin – a metropolis offering quality of life and a great atmosphere. We are fully committed to making our contribution to this in the future as well and to continuing our own development as a service provider. We do this for the city, for Berlin's citizens, and naturally for all visitors.



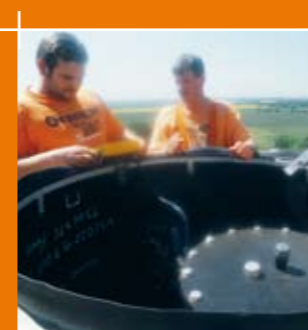
Waste



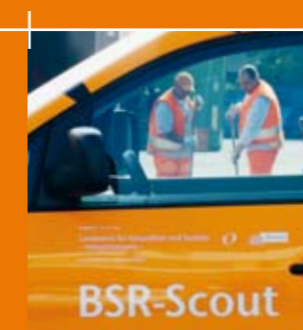
Cleaning



Subsidiaries



Disposal site



Social responsibility



## Commitment for Berlin

### Total dedication and sustainable development

Berliner Stadtreinigung (BSR) has been deeply rooted in the capital for over 130 years now. We are one hundred percent owned by the Region of Berlin and have been operating as a public corporation since 1994. The Region has entrusted us with sole responsibility for the collection, utilisation, and disposal of waste as well as street cleaning and winter road maintenance. We therefore contribute significantly to the quality of life in the city.

Economic efficiency, price stability, high quality, and the continuous advancement of the company as a service provider beyond our municipal responsibilities are, alongside our sense of social responsibility, the driving forces behind our corporate vision and business goals.

Sustainable environmental protection is naturally a matter of concern for us. We attach great importance to the use of innovative technologies and to the environmentally-aware behaviour of our staff. At the focus of our activities are programmes for the protection of the global climate. We are therefore, for instance, also a partner of the Berlin Landesenergieprogramm (Regional Energy Programme).

We do our utmost to assist and encourage young people, for instance, by offering traineeships that exceed our actual requirement for new junior employees. In addition to this, BSR supports the integration of people with disabilities and has already been awarded several integration prizes for this.

**Housework.** Logistics plays a key role in waste disposal in a city the size of Berlin with its millions of inhabitants – and a responsible-minded team is essential too ■



**dependability.** Working throughout the year for all of Berlin's citizens – activities ranging from 22 million bin emptyings to climate protection programme participation ■



**| Vision. |** When it comes to the utilisation of 1.1 million tonnes of waste a year, we attach great importance to intelligent plant strategies and innovative technologies ■

**| Running gear. |** We do our utmost for the right atmosphere in the capital – our modern vehicle fleet impresses with excellently low exhaust, noise, and particulate emissions levels ■





sparkling

### Pure precision

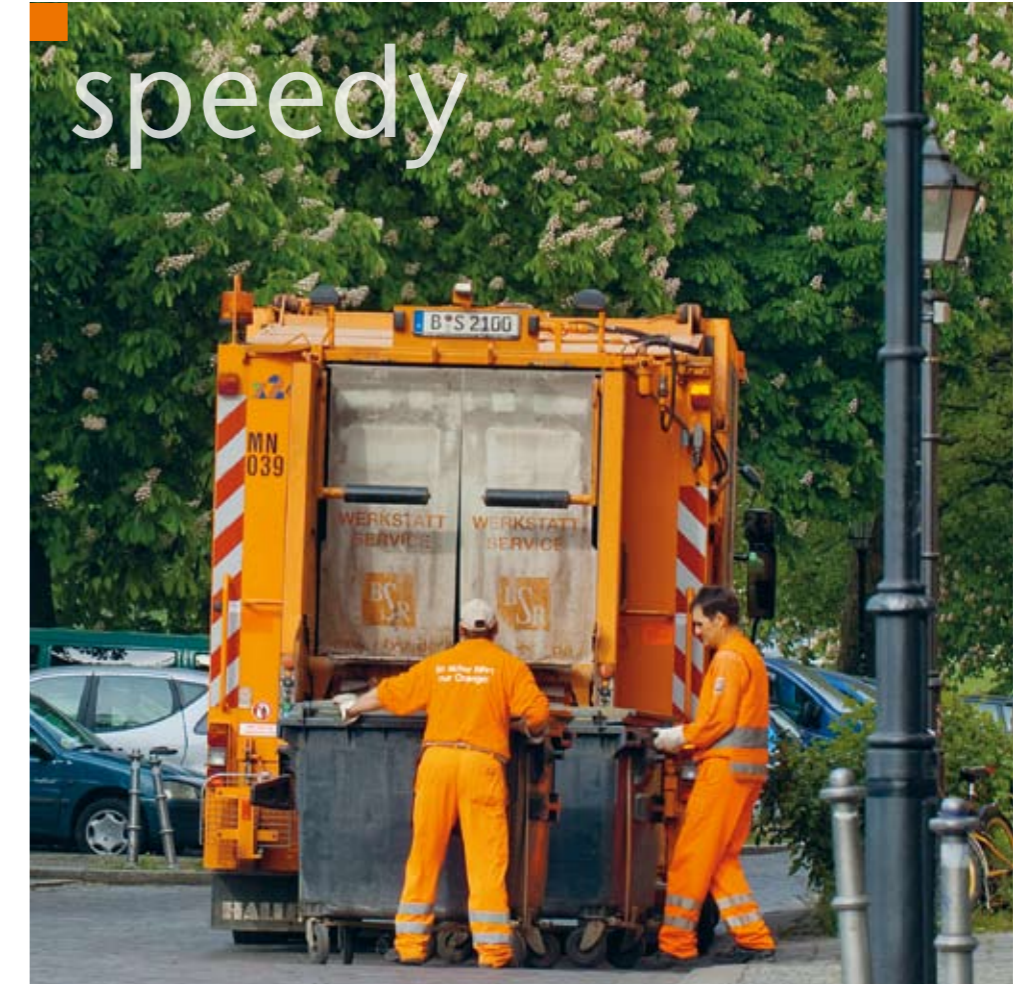
#### Neat and tidy 365 days a year

Four thousand kilometres of roads and paths have to be cleaned every day in Berlin. On top of that, over 20,000 waste-baskets need emptying, often several times a day. Berliner Stadtreinigung cleans the city's 250,000 drains, disposes of 88,200 tonnes of rubbish from the streets and clears illegally dumped waste on an area totalling 24,000 m<sup>2</sup>.

In addition to this, we are on duty after the city's many open-air events, such as Christopher Street Day and the New Year's Eve party at the Brandenburg Gate. Plus, there are also the seasonal tasks that need attending to: around 90,000 m<sup>3</sup> of loose leaves must be gathered up off the public roads every

autumn. And we collect or accept a further 90,000 m<sup>3</sup> of leaves from private properties packed into around one million BSR leaf sacks, which we then deliver, together with the loose leaves, to composting plants.

During the winter, BSR is responsible for making sure around 8,900 km of roads are safe to drive on. Alongside efficiently clearing snow from and salting more than 18,000 road intersections, we simultaneously ensure maximum road safety and environmental compatibility. We achieve this using a high-tech method of applying the right amount of pre-wetted salt to suit actual requirements.



speedy

### A tidy waste concept

#### Top performance all-round

The complete range of refuse disposal services provided by Berliner Stadtreinigung range from the punctual emptying of refuse bins to ecological waste utilisation and disposal in its own plants. We reliably collect around 883,000 tonnes of domestic refuse and 53,000 tonnes of organic waste from 1.8 million private households and several thousand enterprises a year.

BSR collects 12,000 tonnes of bulky refuse every year from Berlin households. Furthermore, it provides 15 recycling centres where people can deliver and dispose of such things as bulky waste and recyclable materials for free.

At six of these centres we also accept harmful substances. Around 2.8 million customers a year make use of the recycling centres. Furthermore, the annual collection and disposal of approximately 400,000 Christmas trees in Berlin is our duty too. All the materials that we collect or receive are returned to the production cycle or are disposed of safely and in an environmentally sound manner.

BSR develops waste concepts for real-estate companies to reduce operating costs. In addition, we inform the property management industry, public institutions, and private households about means of waste prevention and separation.



## Recycling for Berlin

### Recycling services across town

BSR provides 15 recycling centres spread throughout the city so people can deliver their bulky refuse and recyclable materials for free. At six of these centres we also accept problematic waste, such as chemicals, paint, and batteries. We naturally also handle the recycling or disposal of all the delivered materials. Disused electrical and electronic appliances, which according to the law must be taken back by the manufacturer, can also be deposited with us for free. We then make sure everything is sorted and returned to the respective manufacturers.

Around 2.8 million customers a year come to our recycling centres. A uniform appearance and clear signage simplifies use of the collection points.

We have extensively modernised the recycling centres, some of which have been in existence since the 1980s, and have done so strictly according to environmental protection criteria. These efforts range from resource-saving heating systems to using reusable or already recycled building materials.

## Great plants for the environment

### Packed full of energy

To dispose of a wide variety of waste, Berliner Stadtreinigung has developed a clever plant strategy. Thus in future, biogas will be obtained from organic waste by fermentation. The refuse collection vehicles will then be refuelled with this gas – real closed-loop recycling, and real climate protection. We are pioneers when it comes to reducing greenhouse gases in other areas too. The substitute fuels that we produce every year in our bulky waste processing plant prevent the release of approximately 75,000 tonnes of CO<sub>2</sub> equivalents per annum that would arise from the use of fossil energy sources.

When disposing of the residual domestic waste, BSR cooperates with three partners. 289,000 tonnes of refuse are pro-

cessed into substitute fuel in two mechanical-physical stabilisation plants, and incombustible material, such as metal, is returned to the production cycle.

We generate power from more than half of Berlin's domestic waste in our waste-fed heating and power plant in Ruhleben: 722,000 megawatt hours per annum. That is enough to supply 63,000 households with electricity and 31,000 households with heat. To achieve this, we pipe the high-pressure steam resulting from incineration to the neighbouring Reuter power station. Since the calorific value of the refuse is roughly equal to that of lignite, we are able to prevent through its use emissions of 207,000 tonnes of CO<sub>2</sub> per annum.

**A change of air.** | By using over 50 natural gas powered vehicles, we are reducing the CO<sub>2</sub> burden in the capital by 200 tonnes a year ■

**Source of energy.** | In two organic waste fermentation plants, BSR will in future generate gas for refuelling natural gas powered vehicles ■



pioneering. ■



innovative. ■

| **Seasonal assignments.** | Maintenance of the „green“ capital: every autumn 90,000 m<sup>3</sup> of leaves on Berlin's streets need to be disposed of. ■

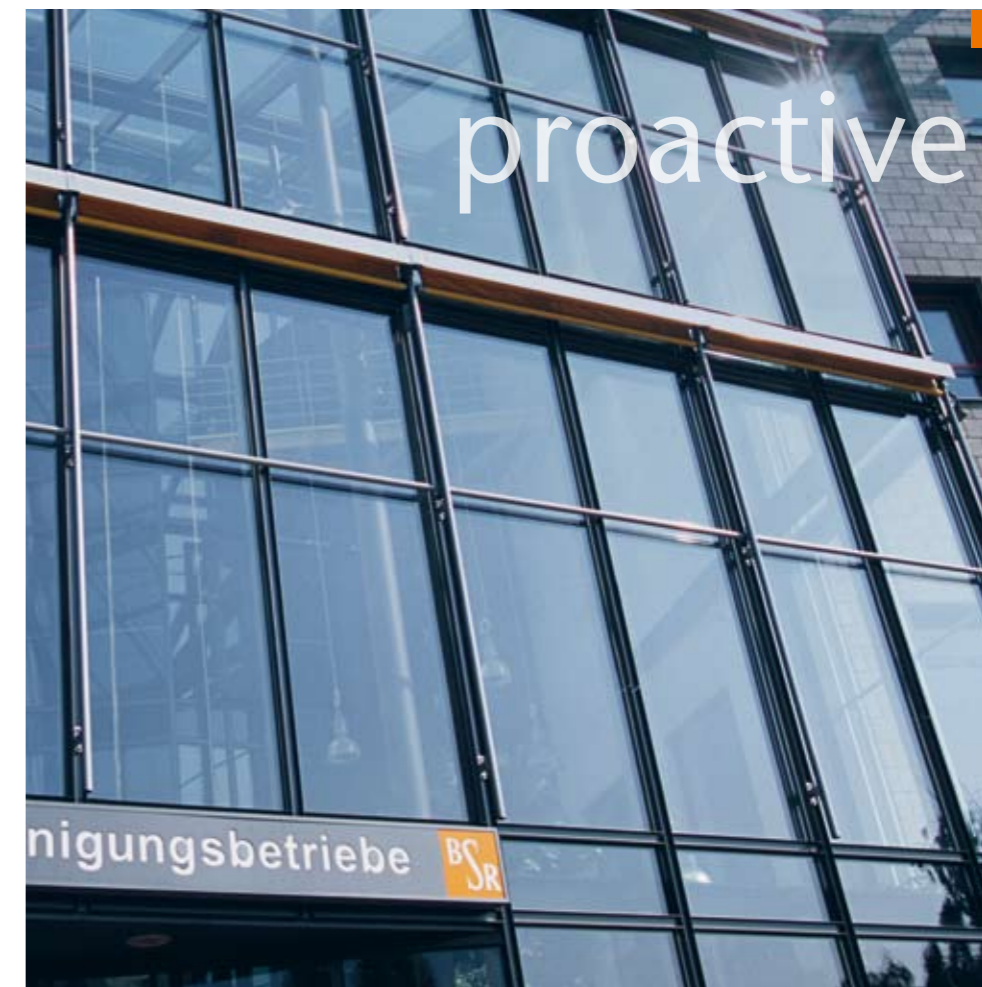


together. ■

| **Qualification.** | We offer traineeships exceeding our actual requirement for new junior staff and provide further and continuing training for our employees – expertise counts at BSR. ■



diligent. ■



## New solutions for inherited burdens

### Making landfills safe for the future

Berliner Stadtreinigung closed its landfills in 2005 and has since then been implementing sustainable environmental protection measures. Among them is the operation of gas wells, which collect approximately 40 million m<sup>3</sup> of landfill gas every year, thus preventing emission of around 500,000 tonnes of CO<sub>2</sub> equivalents. Utilisation of the gas to produce power boosts the environmental performance still further: we generate over 75 million kilowatt hours of electricity on our three landfill sites every year.

To produce that amount, 90,000 tonnes of lignite would otherwise have to be burned. The BSR landfill site at Schwanebeck produces an additional 43 million kilowatts of power for district heating.

And our customers also benefit from the sale of the gas: the additional source of revenue allows us to keep refuse disposal fees low.

All landfill sites have also been equipped with surface coverings and water drainage systems to prevent pollutants dissolved by rain from seeping into the groundwater. Due to the greatly varying composition of refuse in old landfills that were closed before 1993, the landfill experts at BSR have developed custom concepts with tailored solutions.

## Great companywide climate

### Environmental protection from vehicles to buildings

As a partner of the Berlin Landesenergieprogramm (Regional Energy Programme), Berliner Stadtreinigung has pledged itself to reduce the company's annual CO<sub>2</sub> emissions by 120,000 tonnes from 2005 to 2010. Besides our climate-friendly solutions in the areas of waste utilisation and landfills, we have also introduced numerous initiatives within the company itself.

In 2006 alone, we invested a total of 29 million euros in the purchase of vehicles with favourable exhaust, particulate, and noise emissions levels, and in 2007 we purchased 77 refuse collection vehicles with low-emission automatic transmissions. What is more, we are currently testing other environmentally-friendly vehicle technologies, such as hybrid

drives. In addition, we have been using more than 50 natural gas powered vehicles since 2002, and have been able to cut CO<sub>2</sub> emissions by 200 tonnes a year thanks to them alone.

We attach great importance to energy efficiency in our real estate. An example is the BSR Kniprodestrasse depot, which thanks to thermal insulation, heat pumps, and solar collectors does not need a conventional heating system. We are also redeveloping existing properties accordingly: for instance, we have already installed 2,500 m<sup>2</sup> of solar panels for electricity and heat production on BSR buildings, and by the end of 2009, we will have extended this to cover an area of 9,000 m<sup>2</sup>.



## People are what make a city

### Commitment outside and within

Social responsibility is a part of BSR's corporate identity, both towards its staff and towards the citizens of Berlin.

We therefore support our employees with further and continuing training, encourage them to develop their potential and take steps to ensure we have qualified junior staff. Flexible working hours mean staff have a wide variety of personal planning options open to them. We support women in their vocational development and encourage the achievement of a balance between occupation and family. Since the demographic change is also becoming apparent at BSR, we are developing, alongside comprehensive health promotion measures,

special programmes for the preservation of health and employability of older colleagues. We also provide people who have disabilities with meaningful work, for instance, in our wastepaper-bin workshop.

One of our commitments to the city is that we offer a range of appealing traineeships that exceed our own actual requirement for new junior employees. Seventy young people begin their working lives every year at BSR, and we additionally support school projects, facilities for children and young people as well as neighbourhood management schemes in Berlin's various districts.

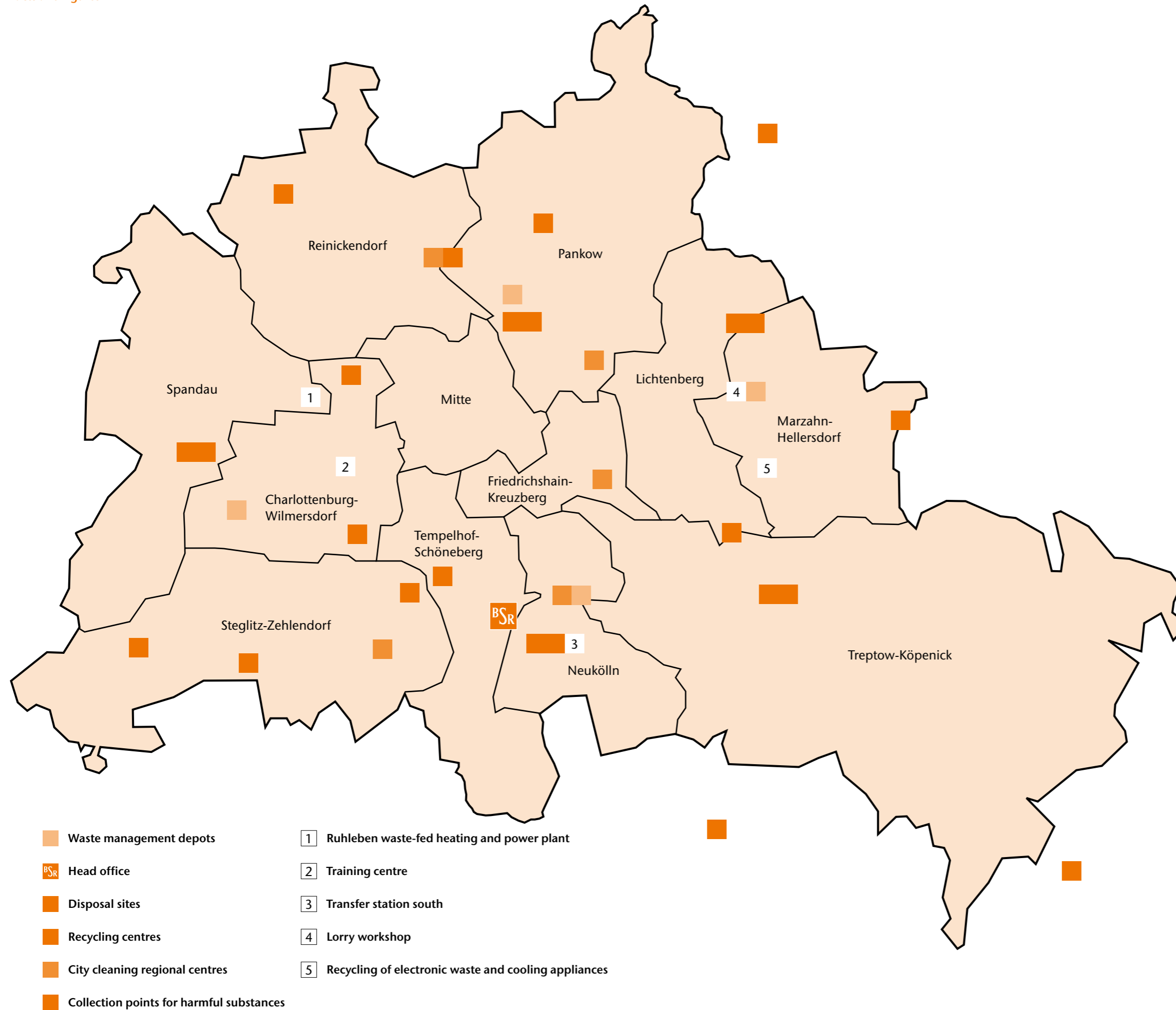
## Acting smartly for Berlin

### Success in a competitive environment

The objective is to preserve BSR as a municipal enterprise for the welfare of Berlin's citizens. After all, the public services provided by Berliner Stadtreinigung are financed by fees – making a profit in this area is out of the question. The benefits of sinking costs are passed on directly to the fee payers. This therefore requires cost management with foresighted planning, selective and careful utilisation of machinery and materials, efficient working, and networked and process-oriented thinking and acting.

BSR also operates in the competitive market. Fully and partly owned subsidiaries provide services that complement BSR's areas of responsibility well. The commercial business is geared towards making a profit, thus strengthening the enterprise's own capital and its core business.

With its fully-owned subsidiaries like Berlin Recycling and stakes in gbav, MPS and BRAL, BSR is pursuing an intelligent strategy that enables it to act in the interest of the public good while at the same time assuring economic viability.



With waste logistics, waste utilisation, and cleaning services, BSR provides a full range of services for a cleaner environment.

**Area looked after**

- 890 km<sup>2</sup> (larger than Munich, Frankfurt a. M., and Stuttgart together)

**Enterprise**

- 5,420 employees
- 476 million euros annual turnover
- 45.6 years is the average age of employees

**Cleaning**

- 4,000 km every day of roads, pavements, footpaths, and other areas (approx. 2x Berlin–Madrid)

**Refuse**

- Approx. 22 million emptyings a year

**Winter road maintenance**

- 8,300 km in two levels of assignment (approx. 5x Berlin – Moscow)
- 18,250 intersections and pedestrian crossings per winter assignment
- 400,000 collected Christmas trees

**Leaf collection and utilisation**

- 95,000 m<sup>3</sup> of loose leaves per year (equivalent of approx. 1,900 wagons)
- 1 million leaf sacks per annum

**Wastebaskets**

- Approx. 21,000 wastebaskets
- 4.9 million emptyings a year
- 6,000 tonnes of refuse per annum

**Drain cleaning**

- 258,780 cleaning operations a year

**Clearance of illegal tips**

- 24,000 m<sup>3</sup> per annum (approx. 500 large container transporters with trailers, approx. 9 km long)

**Clearance of dog excrement**

- Approx. 20,000 tonnes a year (from approx. 150,000 dogs) or approx. 55 tonnes a day

**Recycling centres**

- 2.5 million Berlin citizens use the service
- 110,000 tonnes of waste accepted annually

**Organic waste**

- 52,100 tonnes of organic waste collected per annum



**Editor**

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