BSR is the largest municipal refuse collection service provider in the EU

On an area of 892 km² (larger than Munich, Frankfurt and Stuttgart combined)...

... live approx. 3.4 million inhabitants ...

... in approx. 2 million homes (450,000 distributed waste containers) ...

... (and approx. 160,000 dogs) ...

... (with an increasing number of tourists (aprox. 27 million overnight stays and about 11.3 million tourists per year) ...

... and each year produce about 80,000 tons of street waste ...

... and approx. 1.3 million tons of urban waste ...

... walk and drive on approx. 136 km² of public space (such as streets, airports) ...

... approx. 438,000 trees (> 113,000 m³ of leaves) ...

... approx. 160,000 dogs)
Operational business segments of BSR

Refuse collection
- approx. 1,510 employees / approx. 400 vehicles
- Collection of household and commercial waste
  - approx. 18.0 million emptyings per annum
  - approx. 343,000 waste containers
- Collection of recyclables
  - approx. 0.5 million emptyings per annum
  - approx. 21,000 waste containers
- Collection of organic waste
  - approx. 3.3 million emptyings per annum
  - approx. 84,000 waste containers
- 15 Recycling Depots with 6 Recycling Depots for Pollutants

Street cleaning
- approx. 2,130 employees / approx. 823 vehicles
- Cleaning of streets and pavements
  - approx. 1.4 million kilometres
- approx. 5.7 waste basket collections
- approx. approx. 197,000 gully clean-ups
- Collection of approx. approx. 113,000 m³ leaves
- Removal of illegal debris
- Snow removal and gritting
  - more than 18,000 crossroads
  - GPS navigation and data recording
2013 Key figures for BSR

Sales revenue: EUR 504m

Net profit: EUR 11m

Annual average of employees: 5,300
2013 Key figures for the BSR Group

Sales revenue: EUR 562m

Net profit: EUR 10m

Annual average of employees: 5,533
Associated companies of BSR

- **Berlin Recycling GmbH** (100% BSR)
  - Collection and transport of paper, cardboard, glass and mixed urban waste from private households and trade
  - Recycling of waste and recyclables
  - Processing of hazardous waste
  - 2013 revenue: EUR 39.0 m
  - 285 employees

- **gbav GmbH** (51% BSR)
  - Treatment of street waste, building waste and contaminated soil
  - Cleaning of mineral waste
  - Waste disposal management and project support
  - 2013 revenue: EUR 13.6 m
  - 21 employees

- **BRAL GmbH** (50% BSR)
  - Recycling of old refrigeration units and electronic scrap
  - Collection and disposal of catering and food waste
  - Coordination of organic waste recycling by BSR
  - 2013 revenue: EUR 10.4 m
  - 47 employees
In the price comparison between the largest German cities, Berlin is top ranking

1. Place
Refuse Collection

2. Place
Surface Cleaning

<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>Mixed price (in €/m²)</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Berlin</td>
<td>€22.92</td>
<td>100</td>
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<tr>
<td>2</td>
<td>Dresden</td>
<td>€34.88</td>
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<td>3</td>
<td>Munich</td>
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<td>4</td>
<td>Bremen</td>
<td>€39.29</td>
<td>171</td>
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<td>5</td>
<td>Essen</td>
<td>€41.47</td>
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<td>6</td>
<td>Hamburg</td>
<td>€45.82</td>
<td>199</td>
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<tr>
<td>7</td>
<td>Leipzig</td>
<td>€45.93</td>
<td>200</td>
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<tr>
<td>8</td>
<td>Stuttgart</td>
<td>€47.83</td>
<td>208</td>
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<tr>
<td>9</td>
<td>Cologne</td>
<td>€47.83</td>
<td>208</td>
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<td>10</td>
<td>Dortmund</td>
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<td>11</td>
<td>Frankfurt a.M.</td>
<td>€55.61</td>
<td>243</td>
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<td>12</td>
<td>Dusseldorf</td>
<td>€59.97</td>
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<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>Mixed price p.a. in €/metres (length of property adjoining the street)</th>
<th>Scope of services</th>
<th>Index</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Munich</td>
<td>€2.31¹</td>
<td>Road Surface only</td>
<td>62</td>
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<tr>
<td>2</td>
<td>Berlin</td>
<td>€3.71</td>
<td>Road &amp; Pavement</td>
<td>100</td>
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<tr>
<td>3</td>
<td>Dresden</td>
<td>€5.26</td>
<td>Road &amp; Pavement</td>
<td>142</td>
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<td>4</td>
<td>Leipzig</td>
<td>€5.40¹</td>
<td>Road &amp; Pavement</td>
<td>146</td>
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<tr>
<td>5</td>
<td>Hamburg</td>
<td>€5.40</td>
<td>Road &amp; Pavement</td>
<td>146</td>
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<tr>
<td>6</td>
<td>Dortmund</td>
<td>€5.98</td>
<td>Road &amp; Pavement</td>
<td>161</td>
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<tr>
<td>7</td>
<td>Dusseldorf</td>
<td>€7.56¹</td>
<td>Road &amp; Pavement</td>
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<td>Essen</td>
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<td>Road &amp; Pavement</td>
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<td>10</td>
<td>Frankfurt a.M.</td>
<td>€14.96¹</td>
<td>Road &amp; Pavement</td>
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<td></td>
<td>Stuttgart</td>
<td>not stated</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bremen</td>
<td>Residents’ obligation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BSR provides 15 recycling depots in Berlin for the separate collection of recyclable materials

- approx. 2.2 million visits by clients ...
- approx. 136,000 tons total volume of waste
- approx. 530,00 leaf bags (sold)

<table>
<thead>
<tr>
<th>Type of waste</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>scrap tyres</td>
<td>460</td>
</tr>
<tr>
<td>scrap textiles</td>
<td>2,350</td>
</tr>
<tr>
<td>tree and shrub brashings</td>
<td>1,130</td>
</tr>
<tr>
<td>electronic scrap</td>
<td>12,980</td>
</tr>
<tr>
<td>tiles and ceramics</td>
<td>2,150</td>
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<tr>
<td>glass</td>
<td>1,500</td>
</tr>
<tr>
<td>wood</td>
<td>51,560</td>
</tr>
<tr>
<td>lightweight packaging</td>
<td>1,100</td>
</tr>
<tr>
<td>leaf disposal bags</td>
<td>9,380</td>
</tr>
<tr>
<td>paper</td>
<td>10,420</td>
</tr>
<tr>
<td>residual waste</td>
<td>2,160</td>
</tr>
<tr>
<td>pollutants</td>
<td>2,670</td>
</tr>
<tr>
<td>scrap metal</td>
<td>8,000</td>
</tr>
<tr>
<td><strong>bulky waste inkl. scrap carpets</strong></td>
<td>30,370</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>136,230</strong></td>
</tr>
</tbody>
</table>

[all figures in tons]
Waste recycling & removal - performance data

- Operation of waste incineration plant Ruhleben with a designated capacity of approx. 520,000 tons
- Operation of waste transfer station Geradestraße and a plant for the treatment of bulky waste on site at Geradestraße
- Operation of two plants for mechanical physical stabilisation in Pankow and Reinickendorf
- Operation of our own bio-digestation plant with an annual capacity of about 60,000 tons
- Operation and completion of three landfill sites with gas capture and utilisation of the energy in cogeneration plants
- Safeguarding / remediation of 38 old landfill sites
Guarantee of safe disposal through own facilities and contractually secured capacities

- Co-generation plant Ruhleben
- Transfer station south wood and bulky waste recycling
- Bio-digestation plant Ruhleben
- Mechanical treatment plant Grünau (ORS)
- Recycling depot with collection point for pollutants

For domestic waste from private households
Type of company and the mandate of BSR

- BSR is 100% owned by the State of Berlin and as a public legal entity it is organised like a public limited company (management board, supervisory board) since 1994

- BSR is commissioned to perform sovereign tasks of the State of Berlin
  - Refuse collection (residual waste, organic waste), waste treatment (incineration plants, mechanical physical stabilisation plants)
  - Street cleaning, snow removal and gritting

- In the sovereign realm, BSR is financed though fees. The generation of profits is therefore strictly ruled out (concept of cost coverage). Fee payers are directly benefitting from decreasing costs as their fees are reduced

- BSR is allowed to also operate commercially (though subsidiaries), which in the broader sense is also part of their range of tasks. The commercial is geared towards generating profits and strengthening the equity of the company

- BSR is a guarantor for safe waste management and for the cleanliness if the city
Proceeds from recycling have a significant impact on ensuring low charges

- **Steam:** (Incineration plant Ruhleben) - 3.3%
- **Scrap Metal (FE and NE):** (Incineration plant Ruhleben, bulky waste treatment, recycling depots) - 2.3%
- **Paper:** (recycling depots) - 0.3%
- **Wood:** (bulky waste treatment, recycling depots) - 0.3%
- **Other:** (e.g. Christmas trees) - 0.1%

Total Reduction of charges: 6.3%
From 1999 to 2010 BSR has reduced the direct CO$_2$ emissions by about 600,000 tons per year.
Until 2015 the direct CO$_2$ emissions will be reduced by a further 113,000 tons per year.

The following reduction targets were identified in the 2nd cooperation agreement with the State of Berlin:

- Reduction of emissions on landfills and old waste deposits
- Introduction of the Orange Box in Berlin
- Replacement investment in waste incineration plant Ruhleben
- Generating biogas
- Optimisation of regulation „Green IT“

In consideration of all processes, BSR will save more CO$_2$ by 2015 than will be emitted during all operations.
The disposal system of BSR

So ist nur Orange

Ecology

Fees

Separate recyclables collection

Grey container

Bulky waste collection

BIOGUT container

Container for recyclable materials

Recycling Depot (with pollutants collection point)

Collection system

Bring system
Projekt Linie A

Kamin
SCR
RGR
Ofen / Kessel
Bunker

Umschluss Linie A

Linie A
Block West
Mittelbau
Block Ost
Schema alte Anlage Linie 1-4

1 Müllbunker
2 Krananlage mit Polypgreifer
3 Aufgabetrichter
4 Mülldosierung
5 Walzenroste mit Unterluftsystem
6 Nassentschlacker
7 Dampferzeuger
8 Schlackebunker
9 Überbandmagnet
10 Rauchgaskanal
11 Reaktionsstrecke
12 Rezirkulationssilo
13 Frischkalksilo
14 Wasserpumpenstation
15 Gewebefilter
16 Saugzug
17 Wärmetauscher
18 Dampfaufheizung
19 SCR-Reaktor
20 Ammoniakwassertank
21 Kamin
Schema Linie A
Thank you for your attention