<table>
<thead>
<tr>
<th>Zeon Corporation only</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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</thead>
<tbody>
<tr>
<td>Butadiene consumption (tons)</td>
<td>334,962</td>
<td>355,326</td>
<td>298,397</td>
<td>308,069</td>
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<tr>
<td>Butadiene emissions (tons)</td>
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<td>Acrylonitrile consumption (tons)</td>
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<td>Substances subject to the PRTR Act</td>
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<tr>
<td>Consumption (tons)</td>
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<td>942,613</td>
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<td>Emissions (tons)</td>
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<tr>
<td>Amount generated before compacting (tons)</td>
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<td>135,996</td>
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<td>Amount generated after compacting (tons)</td>
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<td>Atmospheric emissions</td>
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<tr>
<td>CO2 emissions (tons)</td>
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<td>552,940</td>
<td>480,631</td>
<td>575,573</td>
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<td>SOx emissions (tons)</td>
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<td>624</td>
<td>605</td>
<td>796</td>
<td>689</td>
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<td>NOx emissions (tons)</td>
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<td>253</td>
<td>274</td>
<td>324</td>
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<td>Soot emissions (tons)</td>
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<td>11.4</td>
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<td>Water resources (Industrial water + Ground water + Waterworks) consumption(1,000 m³)</td>
<td>18,703</td>
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<td>Wastewater</td>
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<td>Total wastewater discharge (1,000 m³)</td>
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<td>15,940</td>
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<td>COD emissions (tons)</td>
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<td>Total phosphorus discharge (tons)</td>
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<td>1.6</td>
<td>1.7</td>
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<tr>
<td>Total nitrogen discharge (tons)</td>
<td>167</td>
<td>142</td>
<td>124</td>
<td>153</td>
<td>160</td>
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<td>Energy</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Total consumption (crude oil equivalent, kL)</td>
<td>192,930</td>
<td>214,921</td>
<td>193,757</td>
<td>222,348</td>
<td>211,128</td>
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<td>Per-unit energy consumption (kL/t-PDR)</td>
<td>0.1277</td>
<td>0.1367</td>
<td>0.1252</td>
<td>0.1300</td>
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<tr>
<td>Energy efficiency indicator (FY 1990=100)</td>
<td>61%</td>
<td>65%</td>
<td>60%</td>
<td>64%</td>
<td>59%</td>
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<tr>
<td>Production equivalent (tons)</td>
<td>1,519,947</td>
<td>1,572,613</td>
<td>1,547,789</td>
<td>1,671,352</td>
<td>1,723,677</td>
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<td>Per-unit CO2 emissions indicator (FY 1990=100)</td>
<td>62%</td>
<td>66%</td>
<td>58%</td>
<td>64%</td>
<td>59%</td>
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Zeon Corporation each worksites
(“0.0” indicates less than 0.05)

<table>
<thead>
<tr>
<th>Takaoka Plant</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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</thead>
<tbody>
<tr>
<td>Substances subject to the PRTR Act</td>
<td></td>
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<tr>
<td>Consumption (tons)</td>
<td>21</td>
<td>17</td>
<td>22</td>
<td>44</td>
<td>51</td>
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<tr>
<td>Emissions (tons)</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>Industrial waste</td>
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<tr>
<td>Amount generated before compacting (tons)</td>
<td>8,794</td>
<td>7,959</td>
<td>6,751</td>
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<td>Amount generated after compacting (tons)</td>
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<td>Amount sent to landfills (tons)</td>
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<tr>
<td>Atmospheric emissions</td>
<td></td>
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<tr>
<td>CO2 emissions (tons)</td>
<td>20,825</td>
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<td>SOx emissions (tons)</td>
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<td>NOx emissions (tons)</td>
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<tr>
<td>Soot emissions (tons)</td>
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<td>0.0</td>
<td>0.0</td>
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<td>Water resources (Industrial water + Ground water + Waterworks) consumption(1,000 m³)</td>
<td>3,848</td>
<td>3,804</td>
<td>4,079</td>
<td>4,086</td>
<td>4,054</td>
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<tr>
<td>Total wastewater discharge (1,000 m³)</td>
<td>3,322</td>
<td>3,213</td>
<td>3,428</td>
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<td>COD emissions (tons)</td>
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<td>12.7</td>
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<td>Total phosphorus discharge (tons)</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
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<td>Total nitrogen discharge (tons)</td>
<td>14</td>
<td>14</td>
<td>15</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>Energy</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Total consumption (crude oil equivalent, kL)</td>
<td>8,290</td>
<td>9,380</td>
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<td>8,572</td>
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<td>Energy efficiency indicator (FY 1990=100)</td>
<td>83%</td>
<td>85%</td>
<td>90%</td>
<td>81%</td>
<td>81%</td>
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<td>Production equivalent (tons)</td>
<td>56,609</td>
<td>54,616</td>
<td>52,844</td>
<td>57,863</td>
<td>52,368</td>
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### Kawasaki Plant

<table>
<thead>
<tr>
<th>Substance</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butadiene consumption (tons)</td>
<td>23,534</td>
<td>21,758</td>
<td>23,040</td>
<td>21,940</td>
<td>25,121</td>
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<tr>
<td>Butadiene emissions (tons)</td>
<td>2.6</td>
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<td>1.9</td>
<td>2.1</td>
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<tr>
<td>Acrylonitrile consumption (tons)</td>
<td>11,405</td>
<td>10,746</td>
<td>11,007</td>
<td>10,780</td>
<td>12,551</td>
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<td>Acrylonitrile emissions (tons)</td>
<td>11</td>
<td>5</td>
<td>4</td>
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<tr>
<td>Butadiene consumption (tons)</td>
<td>45,847</td>
<td>43,954</td>
<td>43,954</td>
<td>44,012</td>
<td>50,368</td>
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<td>Butadiene emissions (tons)</td>
<td>28</td>
<td>21.4</td>
<td>19.0</td>
<td>17.5</td>
<td>17.2</td>
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<tr>
<td>Amount generated before compacting (tons)</td>
<td>52,900</td>
<td>44,380</td>
<td>56,330</td>
<td>42,734</td>
<td>51,836</td>
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<td>Amount generated after compacting (tons)</td>
<td>4,401</td>
<td>3,412</td>
<td>4,704</td>
<td>3,293</td>
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<tr>
<td>Amount sent to landfills (tons)</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>CO₂ emissions (tons)</td>
<td>25,778</td>
<td>23,443</td>
<td>21,409</td>
<td>23,610</td>
<td>27,501</td>
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<tr>
<td>SO₂ emissions (tons)</td>
<td>0.1</td>
<td>0.3</td>
<td>0.1</td>
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<tr>
<td>NOₓ emissions (tons)</td>
<td>5.7</td>
<td>5.6</td>
<td>5.9</td>
<td>7.7</td>
<td>8.5</td>
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<tr>
<td>Soot emissions (tons)</td>
<td>0.6</td>
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<td>0.5</td>
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<tr>
<td>Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m³)</td>
<td>3,657</td>
<td>3,241</td>
<td>3,244</td>
<td>3,143</td>
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### Tokuyama Plant

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<th>Substance</th>
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<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
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<tbody>
<tr>
<td>Butadiene consumption (tons)</td>
<td>170,327</td>
<td>195,538</td>
<td>152,247</td>
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<td>142,574</td>
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<td>Butadiene emissions (tons)</td>
<td>1.1</td>
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<tr>
<td>Acrylonitrile consumption (tons)</td>
<td>14,379</td>
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<td>16,654</td>
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<td>Acrylonitrile emissions (tons)</td>
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<td>Butadiene consumption (tons)</td>
<td>397,637</td>
<td>422,439</td>
<td>347,496</td>
<td>412,431</td>
<td>342,547</td>
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<td>Butadiene emissions (tons)</td>
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<td>2.9</td>
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<td>1.9</td>
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<td>Amount generated before compacting (tons)</td>
<td>24,063</td>
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<td>24,738</td>
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<td>Amount generated after compacting (tons)</td>
<td>4,674</td>
<td>4,737</td>
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<td>Amount sent to landfills (tons)</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>CO₂ emissions (tons)</td>
<td>237,362</td>
<td>263,215</td>
<td>228,574</td>
<td>261,456</td>
<td>231,443</td>
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<tr>
<td>SO₂ emissions (tons)</td>
<td>507</td>
<td>622</td>
<td>603</td>
<td>796</td>
<td>689</td>
</tr>
<tr>
<td>NOₓ emissions (tons)</td>
<td>179</td>
<td>191</td>
<td>200</td>
<td>256</td>
<td>216</td>
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<tr>
<td>Soot emissions (tons)</td>
<td>2.2</td>
<td>10.9</td>
<td>4.3</td>
<td>7.3</td>
<td>3.8</td>
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<tr>
<td>Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m³)</td>
<td>8,393</td>
<td>8,812</td>
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<td>8,705</td>
<td>7,852</td>
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### Industrial Waste

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<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production equivalent (tons)</td>
<td>85,441</td>
<td>80,229</td>
<td>82,271</td>
<td>79,883</td>
<td>91,394</td>
</tr>
</tbody>
</table>

### Environmental Indicators

- **CO₂ emissions (tons)**
  - Kawasaki Plant: 25,778 to 27,501
  - Tokuyama Plant: 237,362 to 231,443
- **SO₂ emissions (tons)**
  - Kawasaki Plant: 0.1 to 0.3
  - Tokuyama Plant: 507 to 689
- **NOₓ emissions (tons)**
  - Kawasaki Plant: 5.7 to 7.7
  - Tokuyama Plant: 179 to 216
- **Soot emissions (tons)**
  - Kawasaki Plant: 0.6 to 0.6
  - Tokuyama Plant: 2.2 to 3.8
- **Total wastewater discharge (1,000 m³)**
  - Kawasaki Plant: 2,185 to 2,272
  - Tokuyama Plant: 8,393 to 8,705
- **Total phosphorus discharge (tons)**
  - Kawasaki Plant: 0.2 to 0.2
  - Tokuyama Plant: 0.6 to 0.6
- **Total nitrogen discharge (tons)**
  - Kawasaki Plant: 115 to 130
  - Tokuyama Plant: 30 to 33
- **Total consumption (crude oil equivalent, kL)**
  - Kawasaki Plant: 14,700 to 142,574
  - Tokuyama Plant: 92,423 to 105,323
- **Energy efficiency indicator (FY 1990=100)**
  - Kawasaki Plant: 84% to 94%
  - Tokuyama Plant: 94% to 97%
### Mizushima Plant

<table>
<thead>
<tr>
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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxic substances</strong></td>
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<tr>
<td>Butadiene consumption</td>
<td>141,100</td>
<td>138,029</td>
<td>123,109</td>
<td>106,970</td>
<td>122,217</td>
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<td>Butadiene emissions</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td><strong>Substances subject to the PRTR Act</strong></td>
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<tr>
<td>Consumption (tons)</td>
<td>478,178</td>
<td>476,200</td>
<td>408,600</td>
<td>428,684</td>
<td>485,100</td>
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<td>Emissions (tons)</td>
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<td><strong>Industrial waste</strong></td>
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<tr>
<td>Amount generated before compacting (tons)</td>
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<td>47,980</td>
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<td>Amount generated after compacting (tons)</td>
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<td>Amount sent to landfills (tons)</td>
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<td>1.7</td>
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<tr>
<td><strong>Atmospheric emissions</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CO₂ emissions (tons)</td>
<td>211,420</td>
<td>235,360</td>
<td>201,700</td>
<td>259,000</td>
<td>255,800</td>
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<td>SO₂ emissions (tons)</td>
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<td>0.4</td>
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<tr>
<td>NOₓ emissions (tons)</td>
<td>54</td>
<td>54</td>
<td>68</td>
<td>73</td>
<td>73</td>
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<tr>
<td>Soot emissions (tons)</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m³)</strong></td>
<td>2,713</td>
<td>2,510</td>
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<td>Total nitrogen discharge (tons)</td>
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<td>12</td>
<td>12</td>
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<td><strong>Energy</strong></td>
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<td>Total consumption (crude oil equivalent, kL)</td>
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<td>87,860</td>
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<td>45%</td>
<td>38%</td>
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### R&D Center

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<tr>
<td>Amount generated before compacting (tons)</td>
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<td>Amount generated after compacting (tons)</td>
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<td>CO₂ emissions (tons)</td>
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<tr>
<td>Total consumption (crude oil equivalent, kL)</td>
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<td>5,870</td>
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### Head Office

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<td><strong>Atmospheric emissions</strong></td>
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<td>CO₂ emissions (tons)</td>
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Zeon Group companies in Japan

(“0” indicates less than 0.5, and “0.0” indicates less than 0.05)

### Zeon Group companies in Japan

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<th>Substances subject to the PRTR Act</th>
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<th>FY 2016</th>
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<td>No. of substances (total)</td>
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<td>Consumption (tons)</td>
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<td>Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m³)</td>
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<td>163</td>
<td>284</td>
<td>319</td>
<td>328</td>
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<td>CO₂ emissions (tons)</td>
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<td>48,474</td>
<td>46,195</td>
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<td>72,785</td>
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<td>Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m³)</td>
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<td>CO₂ emissions (tons)</td>
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<td>Amount generated before compacting (tons)</td>
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<td>Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m³)</td>
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<td>0.0</td>
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<td>CO₂ emissions (tons)</td>
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<td>Energy consumption (crude oil equivalent, kL)</td>
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<td>124</td>
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<td>Electric energy consumption (1000 kWh)</td>
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<th>FY 2017</th>
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<tbody>
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<td>0.0</td>
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<tr>
<td>Industrial waste</td>
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<tr>
<td>Amount generated before compacting (tons)</td>
<td>160</td>
<td>184</td>
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<td>CO₂ emissions (tons)</td>
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<td>159</td>
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<td>Energy consumption (crude oil equivalent, kL)</td>
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<td>119</td>
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<td>Electric energy consumption (1000 kWh)</td>
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<tr>
<td>Consumption (tons)</td>
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<td>0.0</td>
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<tr>
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Zeon Chemicals L.P. (ZCLP) : Kentucky Plant

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Zeon Chemicals L.P. (ZCLP) : Texas Plant

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