Research on Air Pollution Control Industry in China, 2015-2020

Description:
Bulletin on Total Emission-reduction Examination of Key Pollutants in China 2013 issued by Ministry of Environment Protection of PRC shows: the discharge of chemical oxygen demand, ammonia nitrogen, sulfur dioxide and nitrogen oxides dropped over the same period of last year.

Bulletin suggested: in 2013, the total discharge of chemical oxygen demand was 23.527 million t, decreasing by 2.93% over last year; ammonia nitrogen was 2.457 million t, decreasing by 3.14%; sulfur dioxide was 20.439 million t, decreasing by 3.48%; and nitrogen oxides was 22.273 million t, decreasing by 4.72%.

In addition, in petroleum refining industry, 18 sets of catalytic cracking units with total capacity of 31.5 million t newly build desulphurization devices, accounting to 18% of total capacity in China; conversion engineering of coal to gas newly adds gas consumption for 2.6 billion m³, substituting raw coal for 4.9 million t.

Excerpt:
5.1.3 Discharge of key Pollutants in Exhaust in industrial industries

(1) Sulfur Dioxide
In 2013, the industries with discharge of sulfur dioxide ranking top 3 were power and thermal production and supply industry, ferrous metal melting and calendering industry and non-metallic mineral industry successively among 41 industrial industries surveyed, with total discharge of sulfur dioxide for 11.518 million t, accounting for 68.2% of total discharge by industrial industries surveyed.

Tab.16: Discharge of Sulfur Dioxide in Key Industries, 2011-2013
Unit: 10,000t
Industry

<table>
<thead>
<tr>
<th>Year</th>
<th>Power and thermal production and supply industry</th>
<th>Ferrous metal melting and calendering industry</th>
<th>Non-metallic mineral industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>1354.3</td>
<td>901.2</td>
<td>251.4</td>
</tr>
<tr>
<td>2012</td>
<td>1237.4</td>
<td>797.0</td>
<td>240.6</td>
</tr>
<tr>
<td>2013</td>
<td>1151.8</td>
<td>720.6</td>
<td>235.1</td>
</tr>
</tbody>
</table>

Rate of change (%) = -6.9 -9.6 -2.3 -1.9
Source: Ministry of Environmental Protection of PRC

(2) Nitrogen oxides
In 2013, the industries with discharge of nitrogen oxides ranking top 3 were power and thermal production and supply industry, non-metallic mineral industry successively and ferrous metal melting and calendering industry among industrial industries surveyed, with total discharge of sulfur dioxide for 12.683 million t, accounting for 86.6% of total discharge by industrial industries surveyed.

Tab.17: Discharge of Nitrogen Oxides in Key Industries, 2011-2013
Unit: 10,000t
Industry

<table>
<thead>
<tr>
<th>Year</th>
<th>Power and thermal production and supply industry</th>
<th>Non-metallic mineral industry</th>
<th>Ferrous metal melting and calendering industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>1471.3</td>
<td>1106.8</td>
<td>269.4</td>
</tr>
<tr>
<td>2012</td>
<td>1390.1</td>
<td>1018.7</td>
<td>274.2</td>
</tr>
<tr>
<td>2013</td>
<td>1268.3</td>
<td>896.9</td>
<td>271.6</td>
</tr>
</tbody>
</table>

Rate of change (%) = -8.8 -12.0 -1.0 2.6
Source: Ministry of Environmental Protection of PRC

(3) Smoke (powder) dust
In 2013, the industries with discharge of nitrogen oxides ranking top 3 were power and thermal production and supply industry, non-metallic mineral industry successively and ferrous metal melting and calendering industry among industrial industries surveyed, with total discharge of smoke (powder) dust for 7.226 million t.
accounting for 70.7% of total discharge by industrial industries surveyed.

Tab.18: Discharge of Nitrogen Oxides in Key Industries, 2011-2013
Unit: 10,000t
Industry

Year Total Power and thermal production and supply industry Non-metallic mineral industry Ferrous metal melting and calendering industry
2011 700.9 215.6 279.1 206.2
2012 659.3 222.8 255.2 181.3
2013 722.6 270.3 258.8 193.5
Rate of change (%) 9.6 21.3 1.4 6.7
Source: Ministry of Environmental Protection of PRC

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